

**SELF ASSESSMENT REPORT  
(SAR)**

**FOR ACCREDITATION OF  
UG ENGINEERING PROGRAMME –  
ELECTRICAL AND ELECTRONICS ENGINEERING  
(TIER-I)**

**Submitted to**



**NATIONAL BOARD OF ACCREDITATION**

**New Delhi**



**NANDHA ENGINEERING COLLEGE**

An Autonomous Institution Affiliated to Anna University, Chennai

**NOVEMBER 2022**



**NANDHA**  
ENGINEERING COLLEGE  
An Autonomous Institution Affiliated  
to Anna University, Chennai

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**NBA**

*National Board of Accreditation*

Self Assessment Report (SAR)

*Department of*  
*Electrical and Electronics*  
*Engineering*



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**PART - A**  
**INSTITUTIONAL INFORMATION**



**PART A: Institutional Information**

- 1. Name and Address of the Institution :** **Nandha Engineering College (Autonomous)**  
 Perundurai Main Road  
 Vaikkaalmedu  
 Pitchandampalayam (PO)  
 Erode - 638052  
 TamilNadu  
 Website: [www.nandhaengg.org](http://www.nandhaengg.org)  
 E-Mail: [info@nandhaengg.org](mailto:info@nandhaengg.org),  
[nandhaengg@rediffmail.com](mailto:nandhaengg@rediffmail.com)  
 Phone No. : 04294 – 225585, 226393
- 2. Name and Address of the Affiliating University:** **Anna University**  
 Guindy, Chennai  
 Tamil Nadu – 600025  
 Website : [www.annauniv.edu](http://www.annauniv.edu)  
 E-Mail: registrar@annauniv.edu  
 Ph: 044 – 22357004, 22357264, 22357265
- 3. Year of establishment of the Institution:** 2001
- 4. Type of the Institution:**
- |  |  |
|--|--|
| Institute of National Importance       | <input type="checkbox"/>   |
| University                             | <input type="checkbox"/>   |
| Deemed University                      | <input type="checkbox"/>   |
| Autonomous                             | <input checked="" type="checkbox"/>                                      |
| Autonomous Status granted in the year: | 2013   |
| Autonomous status Renewed              | : 2018   |
| Any other (Please specify)             | : NACC Reaccredited (2 <sup>nd</sup> cycle )with<br>A <sup>+</sup> Grade |



**Note:**

- a. In case of Autonomous and Deemed University, mention the year of grant of status by the authority.
- b. In case of University Constituent Institution, please indicate the academic autonomy status of the Institution as defined in 12<sup>th</sup> Plan guidelines of UGC. Institute should apply for Tier 1 only when fully academically autonomous.

**5. Ownership Status:**

- Central Government
- State Government
- Government Aided
- Self - financing Trust
- Society
- Section 25 Company
- Any Other (Please specify)

**Provide Details:****SRI NANDHA EDUCATIONAL TRUST**

Year of Establishment : 1992

Chairman : Thiru. V.SHANMUGAN, B.Com.,

Secretary : Thiru. S. Nandakumar Pradeep, Thiru. S. Thirumoorthi,

E-mail ID : [secretary@nandhainstitutions.org](mailto:secretary@nandhainstitutions.org)

Phone : 04294-226397



## 6. Other Academic Institutions of the Trust/Society/Company etc., if any:

Table A.6

S.No.	Name of the Institution(s)	Year of Establishment	Programs of Study	Location
1.	Nandha College of Pharmacy	1992	Pharm D., B.Pharm., D.Pharm., M.Pharm., Ph.D.	Koorapalayam Pirivu, Erode
2.	Nandha College of Physiotherapy	1993	B.P.T, M.P.T	
3.	Nandha Polytechnic College	1998	Diploma courses	Vaikkaalmedu, Erode
4.	Nandha School of Nursing	1998	Diploma in General Nursing & Midwifery	Koorapalayam Pirivu, Erode
5.	Nandha Arts and Science College	2000	UG, PG, M.Phil., Ph.D.	
6.	Nandha Matric. Higher Secondary School	2002	LKG to X Standard, H.Sc.	
7.	Nandha College of Education	2006	B.Ed.	
8.	Nandha Teacher Training Institute	2006	D.El.Ed	
9.	Nandha College of Nursing	2007	B.Sc., M.Sc., Diploma(Nursing)	
10.	Nandha College of Technology	2008	B.E., B.Tech., M.E., M.B.A.	
11.	Nandha Central School	2009	Montessori : M - I, II and III , Primary- Middle – Senior	Koorapalayam Pirivu, Erode
12.	Nandha Central City School	2010	Montessori : M - I, II and III , Primary - Middle – Senior	Erode
13.	Nandha Institute of Allied Health Sciences	2017	B.Sc., Diploma in Medical Lab Technology	Koorapalayam Pirivu, Erode
14.	Nandha Academy of Allied Health Sciences	2017	Bachelor of Operation Theater and Anesthesia Technology Bachelor of Accident and Emergency Care Technology Bachelor of Cardiac Care Technology Bachelor of Radiology Imaging Technology Diploma in Medical Laboratory Technology	
15.	Nandha Institute of Health Science	2017	Diploma in Health Inspector/ Sanitary Inspector	



16.	Nandha Naturopathy and Yoga Medical College and Hospital	2018	BNYS	
17.	Nandha Siddha Medical College and Hospital	2019	BSMS	Vaikkaalmedu, Erode
18.	Nandha Ayurveda Medical College and Hospital	2019	BAMS	Koorapalayam Pirivu, Erode
19.	Nandha Dental College and Hospital	2022	BDS	Koorapalayam Pirivu, Erode

**7. Details of all the programs being offered by the institution under consideration:**

*Table A.7*

S. No.	Program Name	Name of the Department	Year of Start	Intake	Increase/Decrease in intake, if any	Year of Increase/Decrease	AICTE Approval	Accreditation Status*
1.	B.E.	Computer Science and Engineering	2001	45	-	-	732-52-391(E)/2001 [02.07.2001]	<b>IV CYCLE</b> NBA - Granted provisional accreditation for three years for the period 02.07.2021 to 30.06.2024
					60	2002	732-52-391(E)/ET/2001 [19.06.2002]	<b>III CYCLE</b> NBA - Granted provisional accreditation for three years for the period 2016 - 2017 to 2018 – 2019 upto 30.06.2019
					90	2005	732-52-391(E)/ET/2001 [19.09.2005]	
					120	2006	732-52-391(E)/ET/2001 [13.07.2006]	<b>II CYCLE</b> NBA - Granted provisional accreditation for two years for the period 18.09.2013 to 17.09.2015





						2014	Lr.No:467/CAI/ Permanent Affln./2014-15 [30.10.2014] Permanent ID:1- 6156963	<b>I CYCLE</b> NBA - Granted provisional accreditation for three years for the period 19.07.2008 to 18.07.2011
2.	B.E.	Electronics and Communication Engineering	2001	60	-	-	732-52- 391(E)/2001 [02.07.2001]	<b>IV CYCLE</b> NBA - Granted provisional accreditation for three years for the period 2021- 2022 to 2023- 2024 i.e. 30.06.2024
					90	2003	732-52- 391(E)/ET/2001 [30.04.2003]	<b>III CYCLE</b> NBA - Granted provisional accreditation for three years for the period 2016 - 2017 to 2018 – 2019, upto 30.06.2019
					120	2006	732-52- 391(E)/ET/2001 [13.07.2006]	
					180	2011	1-401649442/2011/ EOA[01.09.2011]	<b>II CYCLE</b> NBA – Granted provisional accreditation for two years for the period 18.09.2013 to 17.09.2015



					120	2017	F.No:1-3324823115/2017/EOA[10.04.2017] Permanent ID:1-6156963	<b>I CYCLE</b> NBA - Granted provisional accreditation for three years for the period 19.07.2008 to 18.07.2011
3.	B.Tech.	Information Technology	2001	45	-	-	732-52-391(E)/2001 [02.07.2001]	<b>II CYCLE</b> NBA - Granted provisional accreditation for three years for the period 01.07.2021 to 30.06.2024
					60	2002	732-52-391(E)/ET/2001 [19.06.2002]	<b>I CYCLE</b> NBA - Granted provisional accreditation for two years for the period 18.09.2013 to 17.09.2015
4.	B.E.	Electrical and Electronics Engineering	2002	60	-	-	F.No. 732-52-391 (E)/ET/2001 [19.06.2002]	<b>II CYCLE</b> Not accredited 4.11.2016 to 6.11.2016
					120	2011	F.NO SOUTHERN/1-401649442/2011/EOA [01.09.2011]	<b>I CYCLE</b> NBA - Granted
						2013	Lr.No:087/CAI/ Permanent Affln./2013-14 [13.05.2014] Permanent ID:1-6156963	Granted provisional accreditation for two years for the period 18.09.2013 to 17.09.2015

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5.	B.E.	Mechanical Engineering	2005	60	-	-	F.NO 732-52-391 (E) / ET/2001 [ 30.09.2004]	<b>I CYCLE</b> NBA - Granted provisional accreditation for two years for the period 18.09.2013 to 17.09.2015
					90	2009	F.NO 732-52-391 (E) / ET/2001 [08.08.2009]	
					120	2011	F.NO. Southern/ 1-401649442/2011/ EOA Dt:01.09.2011	
					180	2013	F.NO. Southern/ 1-1390227912/2013 EOA [19.03.2013]	
					120	2019	F.No. Southern/1-4267032040/2019/ EOA [ 29.04.2019]	
6.	MBA	Master of Business Administration	2005	60	-	-	F.NO 732-52-391 (E)/ ET/2001 [ 30.09.2004]	<b>I CYCLE</b> Not accredited 09.04.2021 to 11.04.2021
					90	2009	LR.NO.AUCBE/R/ AFFILIATION/UG /PG/306/2009-10 [01.10.2009]	
					60	2010	LR.NO.AUTCBE/ CA/CAI/AFFILIATION/UG/PG/1407/3 06/2010 [22.10.2010]	
7.	MCA	Master of Computer Applications	2006	60	-	-	730-52-391(E)/ET/2001 [19.09.2005]	Not eligible for accreditation
					30	2019	Southern/1-4267032040/2019/ EOA [29.04.2019]	
8.	M.E.	Computer Science and Engineering	2006	18	-	-	732-52-391(E)/ET/2001 [13.07.2006]	Not eligible for accreditation
					36	2014	F.No: 1-2016786981/2014/ EOA [04.06.2014]	
					18	2017	F.No:1-3324823115/2017/ EOA[10.04.2017] Permanent ID:1-6156963	



9.	B.E.	Civil Engineering	2009	60	-	-	F.No. 732-52-391 (E) / ET/2001 Dt:08.08.2009	NBA- Granted Provisional Accreditation for three years for the period 2016-17 to 2018-19 i.e., 30.06.2019
					120	2013	F.No. Southern/1-1390227912/2013/EOA Dt:19.03.2013	
					60	2018	F.No. Southern/1-3512808757/2018/EOA Dt:10.04.2018	
10.	M.E.	Embedded System Technologies	2010	18	-	-	F.NO SOUTHERN/1-6156963/2010/EOA [23.08.2010]	Not eligible for accreditation
11.	M.E.	Engineering Design	2010	18	-	-	F.No. Southern Region/1-6156963/2010/EOA [ 23.08.2010]	Not eligible for accreditation
12.	M.E.	VLSI Design	2011	18	-	-	1-401649442/2011/EOA [01.09.2011]	Not eligible for accreditation
13.	B.E.	Electronics and Instrumentation Engineering	2012	60	-	-	F.No. Southern/1-735489393/2012/EOA [10.05.2012]	Not eligible for accreditation
14.	M.E.	Structural Engineering	2013	18	-	-	F.No. Southern/1-1390227912/2013 /EOA Dt:19.03.2013	Eligible but not applied
					24	2014	F.No. Southern/1-2016786981/2014/EOA Dt:04.06.2014	
					18	2018	F.No. Southern/1-3512808757/2018/EOA Dt:10.04.2018	
15.	B.E.	Agriculture Engineering	2017	60	-	-	F.No. Southern/1-3324823115/2017/EOA [10.04.2017]	Not eligible for accreditation
16.	B. Tech.	Chemical Engineering	2017	60	-	-	F.No. Southern/1-3324823115/2017/EOA [10.04.2017]	Not eligible for accreditation
17.	B.E.	Biomedical Engineering	2018	60	-	-	F.No. Southern/1-3512808757/2018/EOA [10.04.2018] F.No. Southern/1-4267032040/2019/EOA [29.04.2019]	Not eligible for accreditation



**Write applicable one:**

Applying first time

- Granted provisional accreditation for two/three years for the period (specify period)
- Granted accreditation for 5/6 years for the period (specify period)
- Not accredited (specify visit dates, year)
- Withdrawn (specify visit dates, year)
- Not eligible for accreditation
- Eligible but not applied

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A**8. Programs to be considered for Accreditation vide this application***Table A.8*

S. No.	Program Name
1.	B.E. Electrical and Electronics Engineering
2.	B.E. Mechanical Engineering

**9. Total number of employees:****A. Regular Employees (Faculty and Staff):***Table A.9a*

Items		CAY 2021-22		CAYm1 2020-21		CAYm2 2019-20	
		Min	Max	Min	Max	Min	Min
Faculty in Engineering	M	112	123	120	125	105	105
	F	88	91	71	76	63	63
Faculty in Math, Science & Humanities teaching in engineering Programs	M	13	13	14	15	10	10
	F	23	23	22	23	20	20
Non-teaching staff	M	32	38	30	40	39	39
	F	31	36	29	31	29	29

**Note: Minimum 75% should be Regular/Full Time faculty and the remaining shall be Contractual Faculty as per AICTE norms and standards.**

**The contractual faculty (doing away with the terminology of visiting/adjunct faculty, whatsoever) who have taught for 2 consecutive semesters in the corresponding academic year on full time basis shall be considered for the purpose of calculation in the Student Faculty Ratio.**

**CAY – Current Academic Year**

**CAYm1- Current Academic Year minus1= Current Assessment Year**

**CAYm2 - Current Academic Year minus2=Current Assessment Year minus 1**



**Contractual Staff Employees (Faculty and Staff):** (Not covered in Table A):

**Table A.9b**

Items		CAY 2021-22		CAYm1 2020-21		CAYm2 2019-20	
		Min	Max	Min	Max	Min	Max
Faculty in Engineering	M	-	-	-	-	-	-
	F	-	-	-	-	-	-
Faculty in Math, Science & Humanities teaching in engineering Programs	M	-	-	-	-	-	-
	F	-	-	-	-	-	-
Non-teaching staff	M	-	-	-	-	-	-
	F	-	-	-	-	-	-

**10. Total number of Engineering Students:**

**Table A.10**

UG – B.E. / B. Tech	CAY 2021-22	CAY 2020-21	CAYm1 2019-20
Total no. of girls	652	650	604
Total no. of boys	1979	1900	1899
Total no. of students	2631	2550	2503

PG – M.E.	CAY 2021-22	CAY 2020-21	CAYm1 2019-20
Total no. of girls	43	40	38
Total no. of boys	87	48	29
Total no. of students	130	88	67

**Total number of MCA Students:**

MCA	CAY 2021-22	CAY 2020-21	CAYm1 2019-20
Total no. of girls	9	19	39
Total no. of boys	21	33	37
Total no. of students	30	52	76



**Total number of MBA Students:**

MBA	CAY 2021-22	CAY 2020-21	CAYm1 2019-20
<b>Total no. of girls</b>	34	28	23
<b>Total no. of boys</b>	62	52	44
<b>Total no. of students</b>	96	80	67

*(Instruction: The data may be categorized in tabular form separately for undergraduate, postgraduate engineering, other program, if applicable)*

***Note:** In case the institution is running programs other than engineering programs, a separate table giving similar details is to be included.*

**11. Vision of the Institution:**

To be a World Class Engineering and Management Institution in Leading Technological and Socio-Economic Development of the Country by enhancing the Global Competitiveness of Technical Manpower and by ensuring High Quality Technical Education through Dissemination of Knowledge, Insights and Intellectual Contributions.

**12. Mission of the Institution:**

To provide Value-based Technical Education and mould the Character of Younger Generation

**13. Contact Information of the Head of the Institution and NBA coordinator, if designated:**

- i. Name : Dr. N. Rengarajan  
Designation: Principal  
Mobile No. : 7373712234  
Email id : principal@nandhaengg.org
- ii. NBA coordinator  
Name : Dr. E.K. Mohanraj  
Designation: Professor / Civil Engineering  
Mobile No. : 7373714706  
Email id : mohanraj.krishnasamy@nandhaengg.org



PART B-  
CRITERIA  
SUMMARY



# CRITERION 1

## VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES



<b>CRITERION 1</b>	<b>Vision, Mission and Program Educational Objectives</b>	<b>50</b>
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## **1. VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (50)**

**Self Assessment (50)**

### **1.1 State the Vision and Mission of the Department and Institute (5)**

**Self Assessment (5)**

#### **VISION OF THE INSTITUTE**

To be a world class Engineering and Management Institution in leading technological and socio-economic development of the country by enhancing the global competitiveness of technical manpower and by ensuring high quality technical education through dissemination of knowledge, insights and intellectual contributions.

#### **MISSION OF THE INSTITUTE**

To provide value-based technical education and mould the character of younger generation.

#### **VISION OF THE DEPARTMENT**

To produce professionally competent Electrical and Electronics Engineers to meet out the national and global needs in inter/multi disciplinary domains.

#### **MISSION OF THE DEPARTMENT**

The Department of Electrical and Electronics Engineering is committed to

- Equip the students with knowledge and skills to cater to the industrial needs.
- Engineer them to develop innovative, competent and ethical qualities to contribute technical advancements.
- Enable them to become responsible citizens of the country with a willingness to serve the society.



## **The Revised Vision and Mission of the Department and Institute dated as on 20.8.2022 (Academic council-X)**

### **VISION OF THE INSTITUTE**

To be an Institute of excellence providing quality Engineering, Technology and Management education to meet the ever changing needs of the society.

### **MISSION OF THE INSTITUTE**

- To provide quality education to produce ethical and competent professionals with social Responsibility
- To excel in the thrust areas of Engineering, Technology and Entrepreneurship by solving real- world problems.
- To create a learner centric environment and improve continually to meet the changing global needs.

### **VISION OF THE DEPARTMENT**

To foster academic excellence imparting knowledge in Electrical, Electronics and allied disciplines to meet the changing needs of the society

### **MISSION OF THE DEPARTMENT**

The Department of Electrical and Electronics Engineering is committed to

- Equip the students with leadership qualities for accepting the challenges in various engineering sectors
- Excel in the thrust areas of Electrical and Electronics Engineering to solve real world problems
- Empower the students to adapt the latest technologies by providing innovative learning environment



### Consistency of the Department Vision and Mission statements with the Institute statements.

In order to show the consistency of the vision and mission statements of the department and the Institute, the key phrases in the vision and mission statements are presented in the table below.

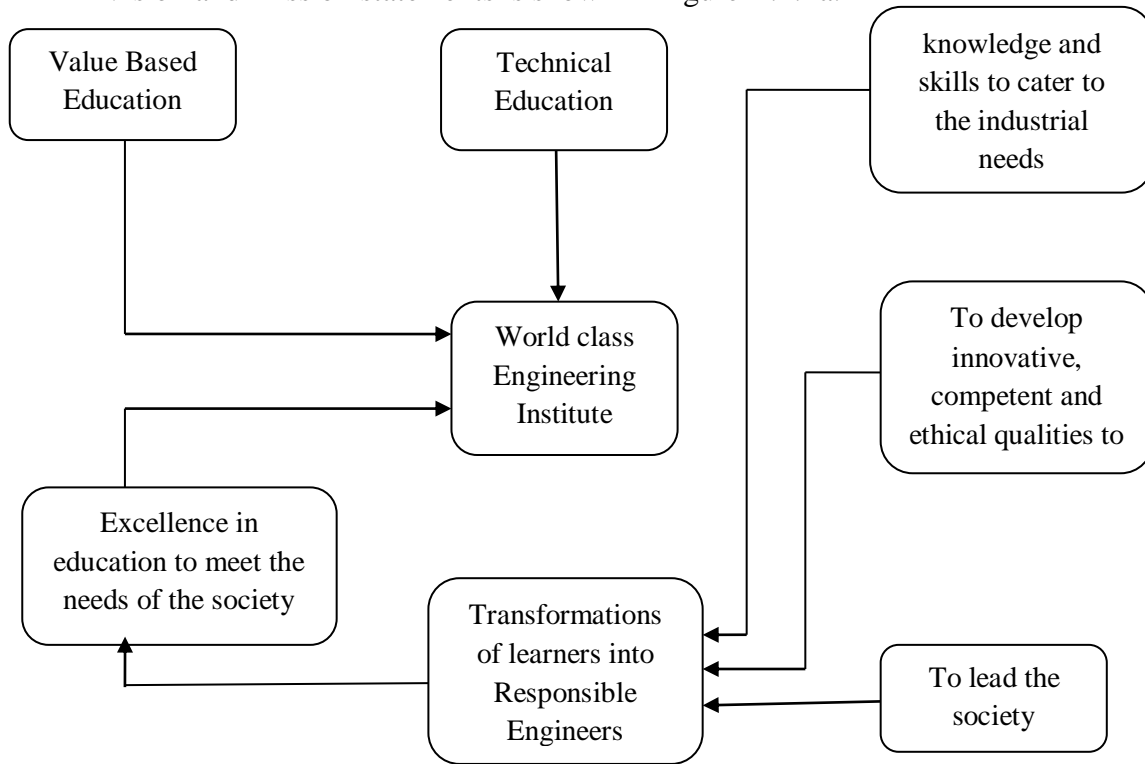
**Table B.1.1. Consistency of Department Vision and Mission Statements with Institute Statements**

Vision & Mission Components		Dept.	Vision	Mission		
			To transform the student in to highly competent ethical electrical engineers to serve the society and nation.	To adapt the latest technologies by providing innovative learning environment	Train the students with leadership qualities for accepting the challenges in industry and private sectors.	Excel in research in the field of Electrical Engineering
Institute						
Vision	World class Engineering Institute		✓	✓	✓	
	Global competitiveness of technical manpower		✓	✓	✓	✓
	High quality technical education		✓	✓	✓	✓
Mission	Valued based technical education		✓	✓	✓	✓
	Mould the character of young generation			✓	✓	✓



**Consistency of the Vision and Mission statements:**

- The consistency of the Department’s Vision and Mission statements with Institute’s Vision and Mission statements is shown in Figure B.1.1a.



**Figure B.1.1a. Consistency of Vision and Mission Statements**

The phrases marked with ‘tick’ in the cell of table are those phrases that have direct dependability and consistency with the department vision and mission statement. In particular, TableB.1.1 illustrates how each of the five key phrases in Electrical and Electronics Engineering department’s vision and mission statements map closely to the five components of the Institute’s vision and mission statements. This mapping is reviewed periodically for consistency with the needs of the stakeholders.



**1.2. State the Program Educational Objectives (PEOs) (5)****Self Assessment (5)**

Graduates of B.E. (Electrical and Electronics Engineering) will:

<b>PEO1</b>	<b>Basic Skill</b>	Provide fundamental knowledge to the students in Basic Sciences for the efficient practice of Engineering.
<b>PEO2</b>	<b>Core Competency</b>	Equip the students with the necessary subject knowledge in the design and analysis of Electrical and Electronic Systems.
<b>PEO3</b>	<b>Continuous Learning &amp; Innovative Skill</b>	Prepare students for the modern work environment that emphasizes the need for lifelong learning so as to bring out innovative applications.
<b>PEO4</b>	<b>Higher Education</b>	Enrich the students with the necessary skills for prospective careers in the industry, government, pursuit of higher education and entrepreneurship.
<b>PEO5</b>	<b>Interdisciplinary Skill</b>	Enable students to communicate effectively, both individually and within teams, demonstrating ethical, respectful, and professional behavior so as to take up leadership positions in the society.

**1.3. Indicate where the Vision, Mission and PEOs are published and disseminated among stakeholders (15)****Self Assessment (15)**

The Vision, Mission and PEOs of the program are published and disseminated among the stakeholders as given below:

**Internal Stakeholders**

- Students
- Faculty Members and Supporting Staff
- Management

**External Stakeholders**

- Employers
- Industry
- Alumni
- Funding Agencies
- Professional Bodies



## ➤ Parents

**The Vision, Mission and PEOs are published and disseminated through**

- College Website – [www.nandhaengg.org](http://www.nandhaengg.org)
- Department Website - <https://nandhaengg.org/about-the-department-eee/>
- **Dissemination to the internal stakeholders**

Vision, Mission and PEOs are displayed in all prominent places of department such as HoD's chamber, Department notice boards, Faculty rooms, Classrooms, Library, Hostel, Laboratories, Laboratory Record Notebooks, Curriculum & Syllabus, Newsletters, Lesson plan, Questions papers, Answer scripts, Class notebooks and starting of the course at class room.

➤ **Dissemination to the external stakeholders**

Vision, Mission and PEOs are discussed in Board of Studies meeting, Parents meeting, Seminar/Workshop/International Conferences brochures, Symposium Souvenir and Alumni meeting.

Dissemination of Vision, Mission statements of the Institute and the Department along with PEOs to the various stakeholders are given in Table B.1.3a.

**Table B.1.3a Dissemination of Vision, Mission statements of the Institute and the Department along with PEOs**

S. No.	DISSEMINATION			
	BY	TO	CONTENT	EVENT/ MODE
1.	Head of the Department	Faculty members of the department and service Departments	<ol style="list-style-type: none"> <li>1. Vision and Mission statements of the Department</li> <li>2. PEOs</li> <li>3. Program Outcomes</li> <li>4. Program Specific Outcomes</li> <li>5. Awareness and Implementation of Bloom's Taxonomy levels in Teaching and Learning Process</li> </ol>	Faculty meeting in the beginning of every semester and subsequent review meetings



			<ul style="list-style-type: none"> <li>6. Preparation of Course Delivery Plans</li> <li>7. Assessment Systems and Tools</li> </ul>	
2.	Head of the Department	Parents	<ul style="list-style-type: none"> <li>1. Vision and Mission statements of the Department</li> <li>2. PEOs</li> </ul>	<ul style="list-style-type: none"> <li>1. Parent's Meeting</li> <li>2. Department News Letter</li> <li>3. Department Website</li> </ul>
3.	Academic Coordinator	Students of the Department	<ul style="list-style-type: none"> <li>1. Vision and Mission statements of the Department</li> <li>2. PEOs</li> <li>3. POs and PSOs</li> </ul>	<ul style="list-style-type: none"> <li>1. First day of every semester</li> <li>2. Department Website</li> <li>3. Laboratory Record Notebooks</li> <li>4. Curriculum &amp; Syllabus,</li> <li>5. Lesson plan</li> <li>6. Questions papers</li> <li>7. Answer scripts,</li> <li>8. Class notebooks</li> </ul>
4.	Alumni Cell	Alumni	Vision and Mission of the Institute and Department	Alumni Meet
5.	Placement Cell	Employers	Vision and Mission of the Institute and Department	<ul style="list-style-type: none"> <li>1. On Campus Drive</li> <li>2. Training Session</li> </ul>





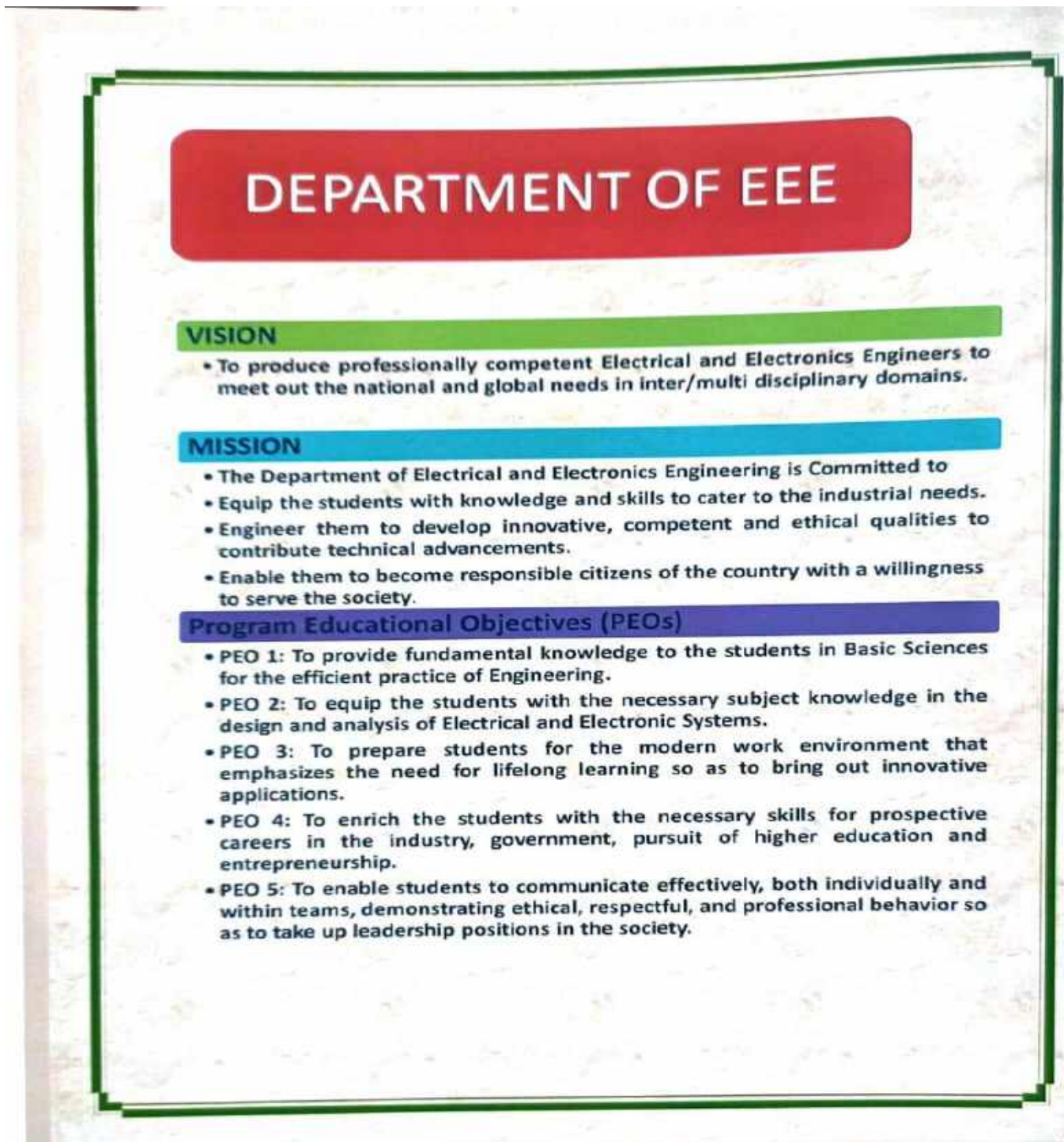
## Dissemination of Vision, Mission statements in Department Website

Figure B.1.3a Department Website

The screenshot displays the website for the Department of Electrical and Electronics Engineering at Nandha Engineering College. The left sidebar contains navigation links: PAC & DAB, Board Of Studies, Lab Facilities, Industry Supported Lab, Core Strength, Department Library, Highlights and Achievements, Professional Bodies, Our Recruiters, Career Trends & Placement, Department Activities, One credit & C – VAC, Research and Development, and MoU.

The main content area includes the following sections:

- Introduction:** The Department of Electrical and Electronics Engineering was started in the year 2002 and presently it offers under graduate program in Electrical and Electronics Engineering. The Department has qualified faculty members with excellent academic records. The Department is equipped with excellent laboratory facilities since its inspection.
- Library:** Electrical Engineering department has a separate department library to cater to the specific needs of the Electrical Engineering students. The computer and internet facilities are made available to the students round the clock. The department has initiated conducting National Conference, Technical Symposium, Inter/intra department Activities, Funding agencies Sponsored Workshops and Seminars.
- VISION:** To foster academic excellence imparting knowledge in Electrical, Electronics and allied disciplines to meet the changing needs of the society.
- MISSION:**
  - To equip the students with leadership qualities for accepting the challenges in various engineering sectors.
  - To excel in the thrust areas of Electrical and Electronics Engineering to solve real world problems.
  - To empower the students to adapt the latest technologies by providing innovative learning environment.
- PROGRAM EDUCATIONAL OBJECTIVES (PEOs):** The graduates of Electrical and Electronics Engineering will be
  - PEO 1: Core Competency:** A Successful professionals with domain knowledge in Electrical and Electronics Engineering using emerging techniques.
  - PEO 2: Research, Innovation and Entrepreneurship:** Able to demonstrate multi-disciplinary skills through innovation and research to meet the societal needs.
  - PEO 3: Ethics, Human values and Life-long learning:** Able to demonstrate ethical practices and managerial skills through continual learning.
- PROGRAM OUTCOMES (POs):**

**Dissemination of Vision, Mission statements in Department Newsletter****Figure B.1.3b Department Newsletter**

## Dissemination of Vision, Mission statements in Department Record

### DEPARTMENT OF EEE

#### VISION

To produce professionally competent Electrical and Electronics Engineers to meet out the national and global needs in inter/multi disciplinary domains.

#### MISSION

- The Department of Electrical and Electronics Engineering is Committed to
- Equip the students with knowledge and skills to cater to the industrial needs.
- Engineer them to develop innovative, competent and ethical qualities to contribute technical advancements.
- Enable them to become responsible citizens of the country with a willingness to serve the society.

#### LIST OF EXPERIMENTS

1. Characteristics of PN Junction Diode
2. Characteristics of Zener Diode.
3. Verify a Clipper and Clamper Circuits With its Characteristics
4. Verify a Single Phase Half Wave & Full Wave Rectifiers With and Without Filters
5. Verify a Shunt Voltage Regulator
6. Characteristics of Common Emitter Configuration
7. Characteristics of Common Base Configuration
8. Characteristics of Common Collector Configuration
9. Characteristics of JFET
10. Characteristics of MOSFET

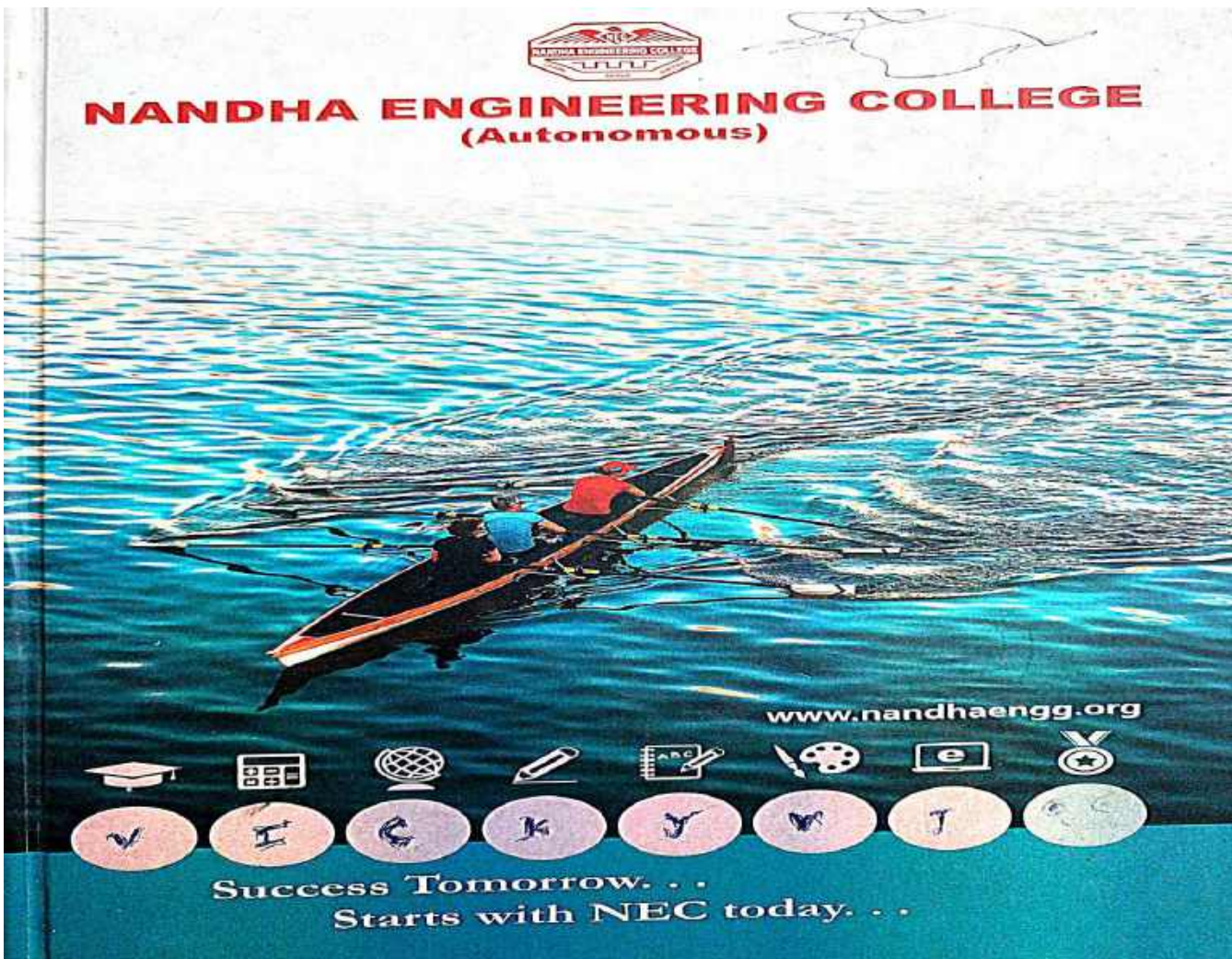
#### ADDITIONAL EXPERIMENTS:

1. Characteristics of Photo diode and phototransistor
2. Design UJT relaxation Oscillators



Dissemination of Vision, Mission statements in Students Note Book

Figure B.1.3c in Students Note Book



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## DEPARTMENT OF EEE

### VISION

To produce professionally competent Electrical and Electronics Engineers to meet out the national and global needs in inter/multi disciplinary domains.

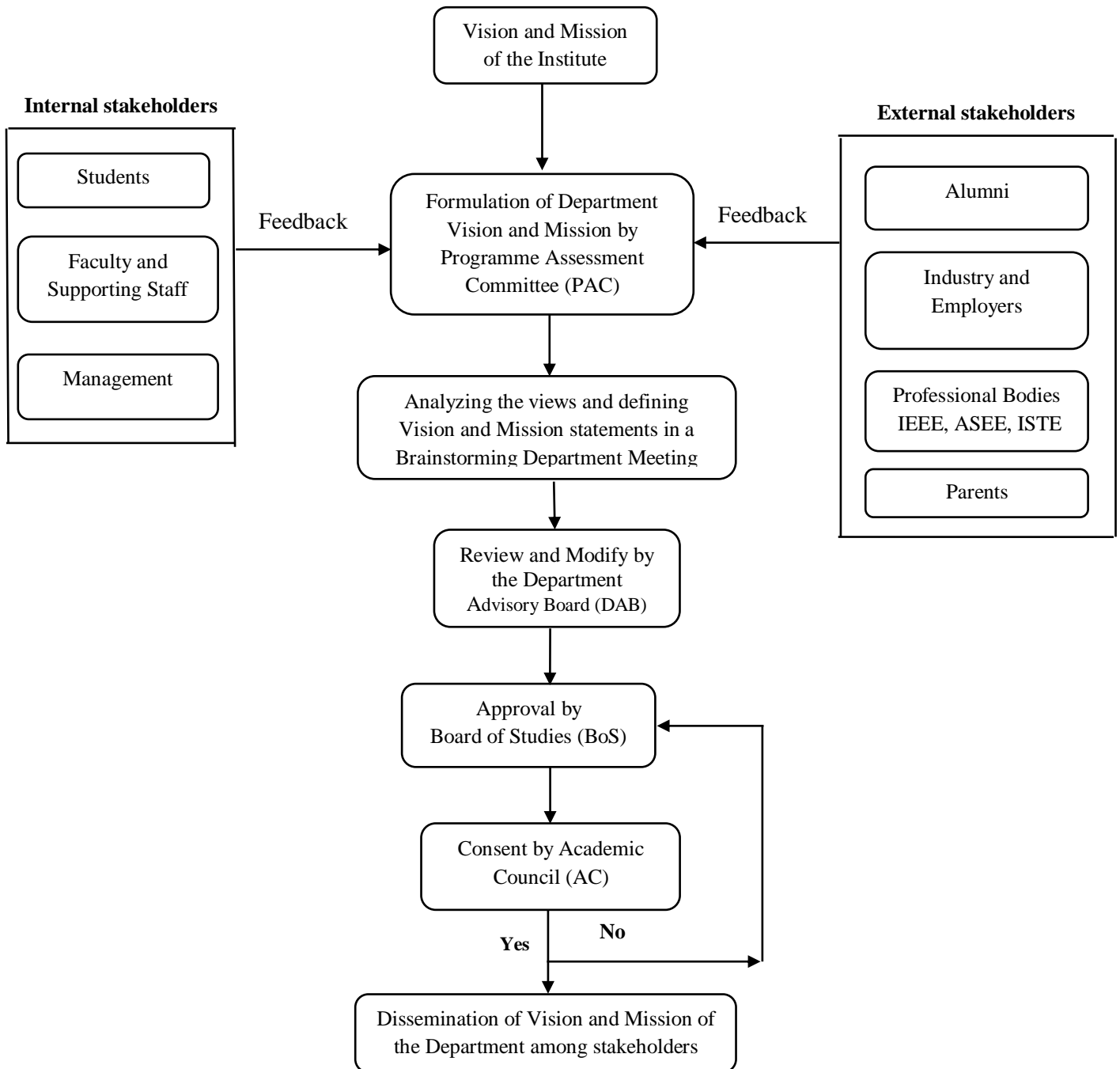
### MISSION

- The Department of Electrical and Electronics Engineering is Committed to
- Equip the students with knowledge and skills to cater to the industrial needs.
  - Engineer them to develop innovative, competent and ethical qualities to contribute technical advancements.
  - Enable them to become responsible citizens of the country with a willingness to serve the society.

**1.4. State the process for defining the Vision and Mission of the Department, and PEOs of the program** (15)

Self Assessment (15)

**Process for defining the Vision and Mission of the Department**



**Figure B.1.4a Process for defining the Vision and Mission of the Department**



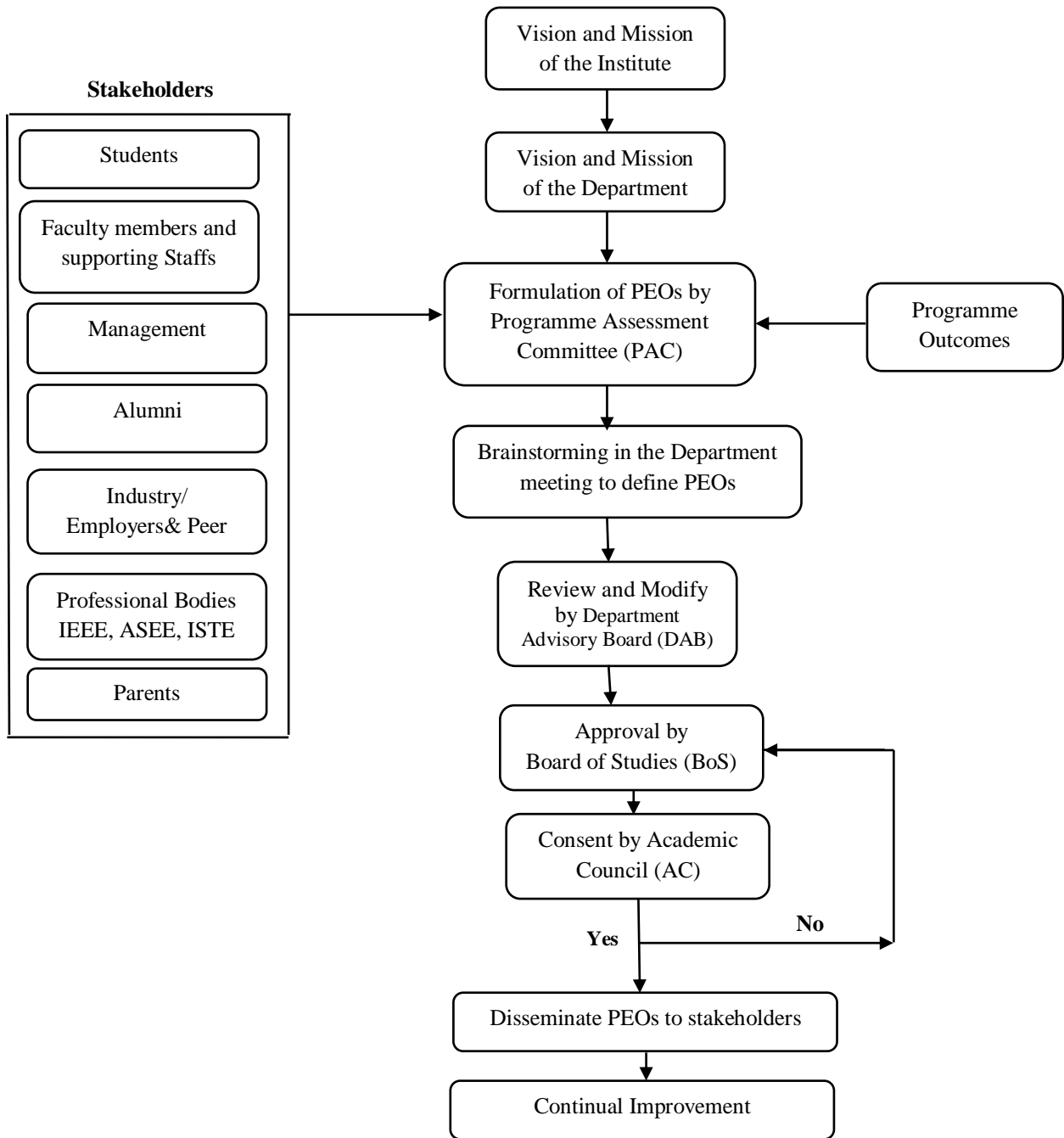
Following step by step procedure is followed to defining Vision and Mission of the department.

- A Programme Assessment Committee (PAC) involving HoD and faculty members in the department formulates the department Vision and Mission statements by considering the views of the stakeholders (internal and external) of the Department and Institution's Vision and Mission as a basis.
- The views taken from stakeholder are analyzed and deliberated in the brainstorming sessions involving the entire faculty team to ensure the drafted department Vision and Mission statement's consistency with the Vision and Mission of the institute.
- Department Advisory Board (DAB) which consists of Members of the Administrators, HoD, senior faculty members, industry and academic experts review the drafted Vision and Mission statement of the department.
- The statements are validated by comparing with other leading institutions.
- Board of Studies (BoS) approves the department's vision and mission statements followed by the consent of Academic Council (AC).
- It is communicated to the entire stakeholders through various modes as mentioned in section 1.3. These statements are reviewed periodically and modified if required.



**Process for defining the PEOs of the Department**

Process for defining the PEOs of the Department is presented as a flowchart followed by description.



**Figure B.1.4b Process for defining the PEOs of the Department**





Following step by step procedure is followed to defining PEOs of the department.

- The process of formulating Program Educational Objectives (PEOs) starts with acquiring inputs from various stakeholders, consultation with peer academicians and alumni representatives to understand the requirements of industry.
- The PAC of the department prepares draft PEOs based on POs and inputs of various stakeholders.
- The drafted PEOs are discussed in the brainstorming sessions involving the entire faculty team to define PEOs in line with the department Vision and Mission statements.
- It is fine-tuned based on stakeholder's feedback when the faculty members of the department meet stakeholders on various occasions like delivering expert lectures, visiting industries, campus placement interviews, conference/workshop/seminars, viva-voce examinations, parents meeting, alumni interaction, etc.
- The final draft of PEOs is placed for discussion and fine-tuning in the Department Advisory Board.
- The drafted PEOs is validated by comparing with the leading Mechanical Engineering departments of bench marked Colleges/Universities.
- Board of Studies (BoS) approves the PEOs statements followed by the consent of Academic Council (AC).
- Review on the achievement of PEOs is carried out often through stakeholders' survey (Students/ Faculty/ Alumni/ Employers/ Members of Governing Council, Academic Council and BoS).
- The department will evaluate the PEOs based on the attainment levels and come up with action plans for continual quality improvement.



**NANDHA ENGINEERING COLLEGE, ERODE – 638 052**  
**(An Autonomous Institution, Affiliated to Anna University Chennai and**  
**Approved by AICTE New Delhi)**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**MINUTES OF THE PROGRAMME ASSESSMENT COMMITTEE (PAC) MEETING**

**Academic Year: 2021-22**

The 1<sup>st</sup> PAC meeting for the academic year 2021-22 was held on 20.07.2021 at 10 am through online mode.

The Chairman of the PAC Dr.G.RAMANI Professor /EEE welcomed the members for the meeting. Then, the items listed below were taken for discussion.

AGENDA	
Item 1.01	Review and follow up of the previous PAC and DAB meeting minutes.
Item 1.02	Attainment of the PO and PSO for 2017-2021 batch.
Item 1.03	Target attainment for 2020-2024 batch.
Item 1.04	Academic Activity Plan for 2021-2022.
Item 1.05	Department activity plan for the academic year 2021-2022.
Item 1.06	Discussion on Budget requirement and Utilization.
Item 1.07	NAAC Accreditation Process
Item 1.08	Discussion on new PSE Course in R17 regulation for U.G Program
Item 1.09	Any other matter

The proceedings of PAC started and the minutes of the meeting are recorded as follows:

Item 1.01	Review and follow up of the previous PAC and DAB meeting minutes.
Discussion	<ul style="list-style-type: none"> <li>Reviewed and approved the action taken for previous PAC and DAB minutes.</li> </ul>
Item 1.02	Attainment of the PO and PSO for 2017-2021 batch.
Discussion	<ul style="list-style-type: none"> <li>End semester exam for final year (2021 passed out) are conducted through online and the results are published.</li> <li>The target attainment level of 65% is achieved for PO1, PO2, PO3, PO4, PO5, PO6, PO11, PO12 and PSO1, PSO2, PSO4.</li> </ul>
Resolution	Resolved to accept.
Item 1.03	Target attainment for 2020-2024 batch.
	<ul style="list-style-type: none"> <li>The target attainment level of 70% is fixed for 2020-24 batch as the 65% attainment level is attained by the 2017-2021 batch for PO1, PO2, PO3, PO4, PO5, PO6, PO11, PO12 and PSO1, PSO2, PSO4.</li> </ul>
Resolution	Resolved to accept and put forth to DAB.
Item 1.04	Academic Activity Plan for 2021-22.
Discussion	<ul style="list-style-type: none"> <li>Effective handling of online classes to be ensured.</li> <li>Classes are to be conducted as per the guidelines from the government and Anna University.</li> <li>Attendance of Students for online classes has to be encouraged.</li> <li>Placement classes and laboratory classes are to be conducted in offline mode as per the government guidelines.</li> </ul>
Resolution	Resolved to implement the changes as per the discussions and suggestions were put forth in DAB.
Item 1.05	Department activity plan for the academic year 2021-22.
Discussion	<ul style="list-style-type: none"> <li>All activities are planned to conduct through online mode due to the pandemic.</li> <li>Calendar for academic and association activities to be conducted is prepared and discussed.</li> <li>Chairman suggested following the same and organizing webinar on emerging topics.</li> </ul>
Resolution	Resolved to follow the suggestion of the PAC chairman.
Item 1.06	Discussion on Budget requirement and Utilization.
Discussion	<ul style="list-style-type: none"> <li>All lab in-charges and other department incharge for various activities are asked to submit the budget requirement for the academic year 2021-22.</li> </ul>
Resolution	Resolved to follow.

Item 1.07	NAAC Accreditation Process
Discussion	<ul style="list-style-type: none"> <li>To prepare the AQAR for the academic year 2020-21 and submit the same to IQAC Coordinator.</li> </ul>
Resolution	Resolved to follow.
Item 1.08	Discussion on new PSE Course in R17 regulation for U.G Program
Discussion	<ul style="list-style-type: none"> <li>The Faculty members suggested the various subjects related to recent trends in Electrical Engineering</li> </ul>
Resolution	Resolved to follow and put forth to DAB.
Item 1.09	Any other matter
Discussion	<ul style="list-style-type: none"> <li>Instructed all faculty and students to follow the COVID safety rules and remain healthy.</li> </ul>

Date: 20.07.2021

*G.P.*  
20/7/21  
CHAIRMAN  
PAC/EEE

HEAD OF THE DEPT,  
DEPT OF ELECTRICAL & ELECTRONICS ENGG,  
NANDHA ENGG COLLEGE,  
ERODE - 638 052.

Figure B.1.4c PAC Meeting Minutes



**NANDHA ENGINEERING COLLEGE, ERODE – 638 052**  
 (An Autonomous Institution, Affiliated to Anna University Chennai and  
 Approved by AICTE New Delhi)  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**MINUTES OF THE DEPARTMENT ADVISORY BOARD (DAB) MEETING**  
**ACADEMIC YEAR 2021-22**

The 1<sup>st</sup> DAB meeting for the academic year 2021-22 was held on 28.7.2021 at 10.30 am through online mode.

The Chairman of the DAB Dr.G.RAMANI, Professor/EEE, welcomed the members for the meeting. Then, the items listed below were taken for discussion.

<b>AGENDA</b>	
Item 1.01	Review of PAC meeting minutes.
Item 1.02	Discussion of vision, mission, PEOs and PSOs of the department.
Item 1.03	Attainment of the PO and PSO for 2017-2021 batch.
Item 1.04	Target attainment for 2020-2024 batch.
Item 1.05	Discussion on new PSE Course in R17 regulation for U.G Program
Item 1.06	Discussion on online course and one credit course for U.G Program
Item 1.07	Discussion and approval of Academic Activity Plan for 2021-2022.
Item 1.08	Discussion and approval of Department activity plan for the academic year 2021-2022.
Item 1.09	Ratification of R17 curriculum - if any.
Item 1.10	NAAC Accreditation Process
Item 1.11	Any other matter

The proceedings of DAB started and the minutes of the meeting are recorded as follows:

Item 1.01	Review of PAC meeting minutes.
Discussion	<ul style="list-style-type: none"> <li>Reviewed and approved the action taken report of the PAC meeting minutes.</li> </ul>
Item 1.02	Discussion of vision, mission, PEOs and PSOs of the department.
Discussion	<ul style="list-style-type: none"> <li>Presented the Vision, Mission of the college and Vision, Mission, PEOs and PSOs of the department and the expert members had suggested revising the statements.</li> </ul>
Resolution	Resolved to accept.
Item 1.03	Attainment of the PO and PSO for 2017-2021 batch.
Discussion	<ul style="list-style-type: none"> <li>The target attainment level of 65% is achieved for PO1, PO2, PO3, PO4, PO5, PO6, PO11, PO12 and PSO1, PSO2, PSO4.</li> <li>The committee members instructed to improve the standard of PO7, PO8, PO9, PO10 and PSO3.</li> </ul>
Resolution	Resolved to accept and recommended to SCAA.
Item 1.04	Target attainment for 2020-2024 batch.
Discussion	<ul style="list-style-type: none"> <li>The target attainment level of 72% is fixed for 2020-24 batch as the 65% attainment level is attained by the 2017-2021 batch for PO1, PO2, PO3, PO4, PO5, PO6, PO11, PO12 and PSO1, PSO2, PSO4.</li> </ul>
Resolution	Resolved to approve and put forward to BOS.
Item 1.05	Discussion on new PSE Course in R17 regulation for U.G Program
Discussion	The various courses were suggested by faculty members in PAC meeting were discussed and finally Electric and Hybrid vehicles is approved.
Resolution	Resolved to approve and put forward to BOS.
Item 1.06	Discussion on online course and one credit course for U.G Program
Discussion	Providing the Credits for online Courses and new one credit courses related to recent trends were discussed
Resolution	Resolved to accept and put forward to BOS
Item 1.07	Discussion and approval of Academic Activity Plan for 2021-22.
Discussion	<ul style="list-style-type: none"> <li>Presented the Academic activity plan for 2021-22 and the members instructed to follow the guidelines of government and Anna University.</li> <li>Discussed the placement training and activity plan.</li> </ul>
Resolution	<ul style="list-style-type: none"> <li>Resolved to accept and follow.</li> <li>Resolved to approve the placement training and activity plan.</li> </ul>

Item 1.08	Discussion and approval of Department activity plan for the academic year 2021-22.
Discussion	<ul style="list-style-type: none"> <li>As the pandemic is not yet got down completely, the experts advised to conduct the department activities through online mode.</li> </ul>
Resolution	Resolved to accept and follow.
Item 1.09	Ratification of R17 curriculum - if any.
Discussion	NIL
Item 1.10	NAAC Accreditation Process
Discussion	<ul style="list-style-type: none"> <li>Preparation of AQAR for academic year 2020-21 is under progress and the faculty members are asked to submit the necessary documents.</li> </ul>
Resolution	Resolved to submit the documents.
Item 1.11	Any other matter
Discussion	<ul style="list-style-type: none"> <li>Suggested to ensure that all faculty and students are vaccinated and produce the vaccination certificate to the college.</li> </ul>

Date: 28.07.2021

*H. R. J.*  
28/7/21

CHAIRMAN  
DAB/EEE

HEAD OF THE DEPT,  
DEPT OF ELECTRICAL & ELECTRONICS ENGG.  
NANDHA ENGG COLLEGE  
FRODE - 638 052

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Figure B.1.4d DAB Meeting Minutes



### 1.5 Establish consistency of PEOs with Mission of the Department (10) Self Assessment (10)

The consistency of the Department (DM) Mission with each PEO's has been presented in Table B.1.5a followed by Mitigation for Correlation between department Mission and PEOs.

**Table B.1.5a PEO Vs Department Mission Correlation**

PEOs/ Mission	Equip the students with knowledge and skills to cater to the industrial needs. (DM1)	Engineer them to develop innovative, competent and ethical qualities to contribute for technical advancements. (DM2)	Enable them to become responsible citizens of the country with a willingness to serve the society. (DM3)	Percentage of Consistency (%)
PEO 1	3	2	3	88.88
PEO 2	3	2	3	88.88
PEO 3	2	3	2	77.77
PEO 4	3	3	2	88.88
PEO 5	2	3	3	88.88
Percentage of Consistency	86.66	86.66	86.66	

**1: Slight (Low)      2: Moderate (Medium)      3: Substantial (High)      “-”: no correlation**

#### Mitigating Correlation between Mission and PEOs





DM1 correlates with PEO1 substantial because it equips the student with the knowledge on value-based education to develop solution for consultancy activities.

DM1 correlates with PEO2 and PEO4 substantially because it equipping the graduates with professional entrepreneurship through continuous improvement of knowledge.

DM1 has moderate correlation with PEO3 and PEO5 as the learning of new technologies will empower the graduates to offer innovative solutions to various real-world problems.

DM2 correlates with PEO3, PEO4 and PEO5 substantially as the objectives of the program focus mainly on the upgradation of technical expertise of students and encourage them in doing research to develop solution for consultancy activities and equipping the graduates with professional entrepreneurship through continuous improvement of knowledge by imparting state-of-the-art technology.

DM2 has moderate correlation with PEO1 and PEO2 because students inculcated with leadership qualities with professional and ethical responsibilities would supplement graduates to perform well and serve the society.

DM3 correlates with PEO1, PEO2 and PEO5 substantially by making the students adapt to industry education with ethical attitude, effective communication skills, team work, and guidance and contribute to the advancement and well-being of the society.

DM3 has moderate correlation with PEO4 as it requires the graduate to learn the latest technology which can be achieved through lifelong learning for the advancement of the development.



## **CRITERION 2**

# **PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES**

**Department of Electrical And Electronics Engineering**



<b>CRITERION 2</b>	<b>Program Curriculum and Teaching –Learning Processes</b>	<b>100</b>
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**Self Assessment (100)**

**2.1 Program Curriculum (30)**

**Self Assessment (30)**

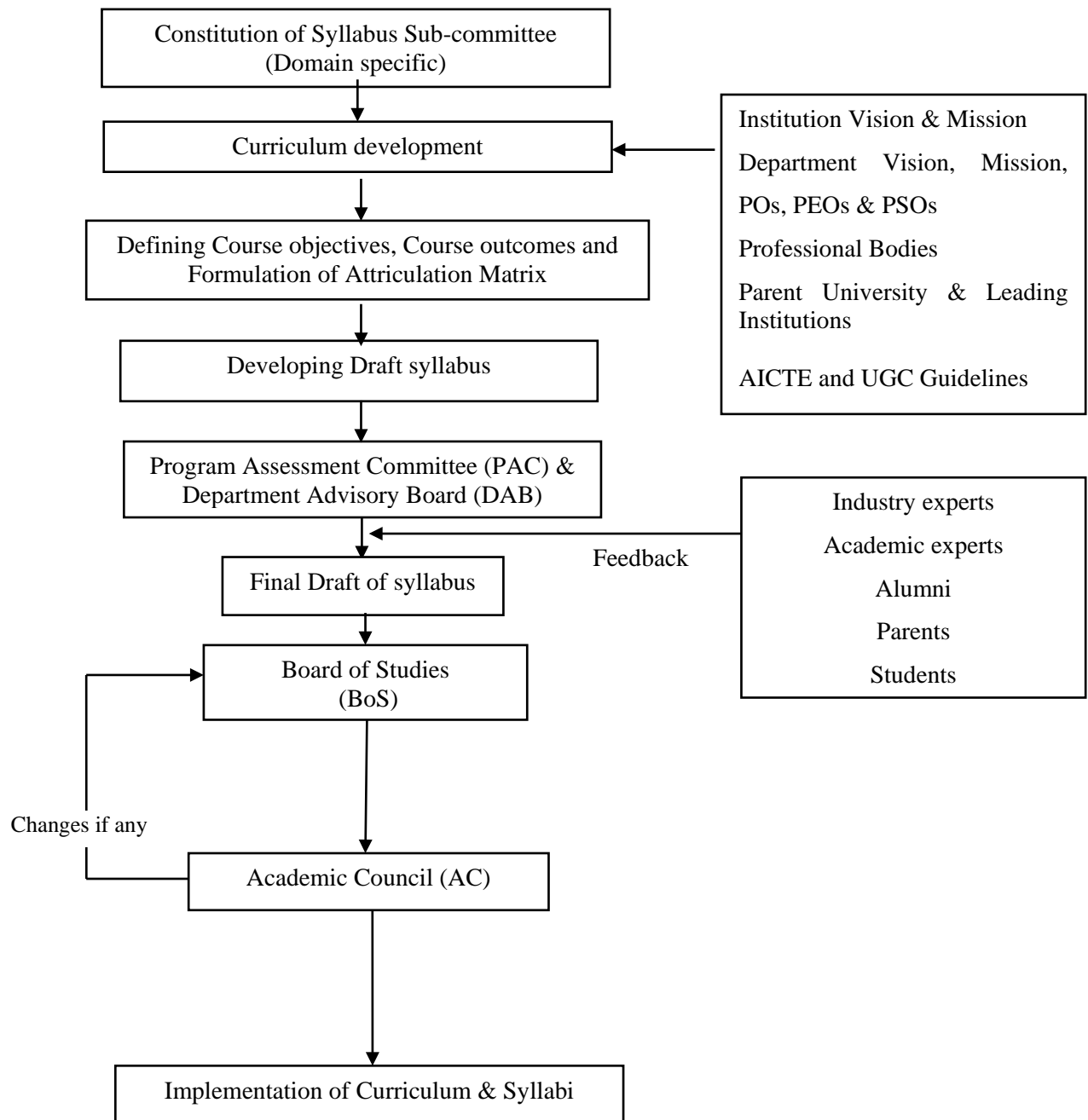
**2.1.1 State the process for designing the program curriculum (10)**

**Self Assessment (10)**

*(Describe the process that periodically documents and demonstrates how the program curriculum is evolved considering the POs and PSOs)*

The curriculum development is a systematic, multi-step process which includes high level of participation, discussion and critical reviews involving all the stakeholders. It starts with considering broad guidelines of the Institute, referring other leading institutes/Universities, guidelines of AICTE/ UGC, industry demands and requirements of POs and PEOs of the Department. The Programme Assessment Committee (PAC) which consists of the department's faculty members constitutes syllabus sub-committee based on the specialization of faculty members. The sub-committee prepares draft curriculum, course outcome and syllabi. The programme curriculum is reviewed and restructured by Programme Assessment Committee (PAC) and Department Advisory Board (DAB). After incorporating the suggestions made in these forums, feedbacks are collected from Industry experts and academic experts of reputed institutions to strengthen the contents of curriculum. The structured curriculum and syllabi are placed in the Board of Studies of the Department which has expert members from parent University, Industry, leading academic institutes and Alumni. The corrections/suggestions from BoS members are incorporated in the curriculum and syllabi. Finally, the curriculum and syllabi are placed in the Academic council of the Institute, which is the highest academic body of the institute. The Academic council is chaired by the Principal and comprises of Deans/ HoD's, senior faculty members of the Institute as members. In addition to the institute members it has expert members from parent University, Industry and leading institutions. The process for designing the program curriculum is illustrated in Figure 2.1.1a.





**Figure B.2.1.1a Curriculum Design and Development Process**

In addition, the Institute will have the separate committee to ensure the effective implementation of curriculum and syllabi, proper management of academic, financial and general administrative affairs which are all constituted as per the guidelines of UGC.

The POs/PSOs are evaluated for the programme every year and it is analyzed by the Programme Assessment Committee Members and Department Advisory Board Members.

The entire process is illustrated in Figure B.2.1.1a. above. The constitution and functions of various committees involved in the curriculum development process are explained below.

### **Syllabus sub-committee**

The sub-committee consists of faculty members from department. They are grouped into teams based on their specialization and use the inputs which are gained during the subject handling/ acting as course coordinators. The suggestions and recommendations made by the sub-committee members are taken into consideration while developing curriculum and syllabi.

### **Programme Assessment Committee (PAC)**

Programme Assessment Committee (PAC) consists of HoD and department faculty members. The committee meets four times in an academic year to review the following functions:

- To monitor and assess the COs, POs and PSOs based on feedback from the course coordinators.
- To verify the plan of the curricular and co-curricular activities in accordance with PEOs.
- To ensure the course allocation to faculty members within and service departments.
- To review the plan of events to be organized in a semester.
- To propose the supplementary activities for the attainment of POs and PSOs.
- Review of Vision, Mission and PEO statements of the department and proposing changes if needed.

### **Department Advisory Board (DAB)**

Department Advisory Board (DAB) consists of HoD, senior faculty members from parent and other departments, alumni, parents, students, industry and academic experts. The Board meets twice in an academic year. The DAB review the following functions:

- To provide support and approve the formulation of the Vision, Mission, PEOs and PSOs.
- To review the conclusions of PAC with respect to curriculum and syllabi changes based on attainment of the POs and PSOs.
- To ensure the incorporation of the changes in curriculum and syllabi, and place before the BoS and Academic Council for approval.



### Board of Studies (BoS)

Composition of Board of Studies:

- Head of the Department concerned (Chairman).
- The senior faculty of the department.
- Two subject experts from outside the Parent University to be nominated by the Academic Council.
- One expert to be nominated by the Vice-Chancellor from a panel of six recommended by the college Principal.
- One representative from industry/corporate sector/ allied area relating to placement.
- One postgraduate meritorious alumnus to be nominated by the Principal.

Board of Studies takes up planning of appropriate programs of study and the implementation of effective teaching. The Board of Studies of a Department in the college

- Prepares syllabi for various courses keeping in view the objectives of the college, reviewing and updating syllabi from time to time, introducing new courses of study, determining details of continuous assessment with the interest of the stakeholders and national requirement for consideration and approval of the Academic Council
- Suggest methodologies for innovative teaching and evaluation techniques
- Suggest panel of names to the Academic Council for appointment of examiners and
- Coordinate research, teaching, extension and other academic activities in the department/ college. Board of Studies meetings are conducted regularly.

### Academic Council (AC)

Academic Council which is the highest academic body of the institute scrutinizes and approves the proposals of the Boards of Studies with regard to courses of study, academic regulations, curricula, syllabi and modifications. The AC is chaired by the Principal of the Institute. The council comprises of members drawn from the various departments of the institute, experts from industry, including representatives of University.

### Governing Body (GB)

The function of Governing Body is to decide on the overall development of the Institute which includes infrastructure, resource allocation, welfare measures, institute scholarship, medals, prizes and certificates on the recommendations of academic council and approval of new programs for the Institute.



### Finance Committee

The objective of the Finance Committee is to ensure proper utilization of fund. The Finance Committee shall act as an advisory body to the Governing Body, to consider:

- Budget estimates relating to the grant received/receivable from UGC, and income from fees, etc. collected for the activities to undertake the scheme of autonomy; and audited accounts for the above.
- To recommend fixation/revision of fees and other charges payable by the students to the College Governing Council.
- See that expenses incurred have budgetary provision recommend for approval financial proposals made by other committees with or without modification
- Check that necessary formalities have been observed in incurring expenses
- Check process bills placed for payment
- Enhance the claims related to academic activities like valuation of paper, question paper setting, etc.

### Process of Curriculum Improvement

The process of curriculum improvement is also follows the same steps described in Figure B.2.1.1a. The various committees involved in the curriculum development ensures that the curriculum developed covers components for employability, research, topics in emerging trends, social relevance and needs.

Involvement of stakeholders results in

- Updating of curriculum and syllabi
- Industry project's and Internship programs
- Modifications in academic policy to cater to the needs of real-world requirement through different assessment methods like Online test, Quiz, Assignments, Continuous assessment tests

The following courses are included as per the gaps identified during the evaluation of POs, PSOs, PEOs and suggestions given by the stakeholders:

- Professional core courses in Embedded mode
- Industry based one credit courses



- Comprehensive Examination
- Professional and Open Electives
- Human Excellence and Professional Value Courses
- Mandatory Non-credit courses on Constitution of India and Essence of Indian Traditional Knowledge.

The curriculum and syllabus has been revised every year to meet the evolutionary requirements in the industry, engineering and other business sectors. Few of the important areas considered for improvement of the curriculum is presented below:

### **Employability**

Employability is ensured through multi-skilling of the students. To develop multi-skills, the curriculum includes the following provisions:

- Professional core papers
- Professional Electives
- Industry Expected curriculum
- Establishment of laboratories in collaboration with Industry for state of the art learning
- Interdisciplinary electives (open electives)
- Interdisciplinary laboratories
- Presentation of Technical papers
- Introduction of Industrial training
- Internships are encouraged during seventh and eighth semester
- Different assignments patterns and mini projects
- Language laboratory

### **Innovation**

In the curriculum design and development process, the following innovative practices are considered for inclusions.

- Value added courses / Training to the students
- Exclusive Center for innovation and Product Development (CiPD) to encourage interdisciplinary projects
- Addition of innovative experiments in the laboratory to improve problem solving abilities





- Inter disciplinary electives
- Flexibility to choose subjects through open electives, self-study courses, and special electives further enhancing the analytical ability, innovative thinking and creativity.

### Research

- The curriculum design and development help the students and faculty to focus towards research through the following aspects:
- The students and members of faculty are motivated to submit research proposals to various funding agencies
- The curriculum is developed considering the needs that exist at the regional and national levels to promote global competencies, environmental, ethical and social issues through soft skills, language development and recent technical developments. Examples of some courses added in the curriculum to meet the above requirements are given below:
  - Environmental Science
  - Soft Skills - Listening and Speaking
  - Fuel Cells and Applications
  - 3D Printing Technology

### Involvement of Expert Members in Curriculum Development

**Table B.2.1.1a Board of Studies members from the Industry, Professional Body and Academia**

S. No.	Name	Designation	Nominated By
1.	Dr.G.Ramani, Professor & Head of the Department Nandha Engineering College	Board Chairman	Principal
2.	Dr.S.Chandramohan, Professor & Head of the Department, Dept of Electrical & Electronics Engineering, Guindy, Anna University, Chennai- 600025.	Academic	University



3.	Dr.N.P.Subramaniam Associate professor, Dept of Electrical & Electronics Engineering, Pondicherry Engineering college, Puducherry - 605014.	Academic	Principal
4.	Dr. S.Moorthi Associate Professor, Dept of Electrical & Electronics Engineering, National Institute of Technology, Tiruchirappalli -620015.	Academic	Principal
5.	Mr.S.Selvakumar Lead Engineer, ABB Global Industries Limited, Chennai- 600089.	Industry	Principal
6.	Mr.D.Prakash Project Leader, Pactron India Pvt.Ltd, Coimbatore-641005.	Alumni	Principal
7.	Mr.M.Prabhu, Prof/EEE	Member	Board Chairman
8.	Dr.P.Jamuna,ASP/EEE	Member	
9.	Mr. T.Jayakumar, ASP/EEE	Member	Board Chairman
10.	Mr.B.Ramraj, AP/EEE	Member	Board Chairman
11.	Mr.S.Elango, ASP/EEE	Member	Board Chairman
12.	Mrs.C.Pratheeba, ASP/EEE	Member	Board Chairman
13.	Mr.V.Arunkumar, ASP/EEE	Member	Board Chairman
14.	Mrs.K.Sathyasree, AP/EEE	Member	Board Chairman
15.	Mrs.R.Vijayalakshmi, AP/EEE	Member	Board Chairman
16.	Mr.V.Ravichandran, AP/EEE	Member	Board Chairman





**NANDHA ENGINEERING COLLEGE**  
(Autonomous Institution)  
Pitchandampalayam, Erode To Perundurai Road, Erode-638 052

**BOARD OF STUDIES**

Academic Year: 2021 - 2022

<b>Board</b>	Electrical and Electronics Engineering	<b>Meeting No.</b>	9	<b>R2017</b>
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**LIST OF MEMBERS**

Sl.No	Members	Representation
1	Dr.G.Ramani, Prof & HOD/EEE	Chairman
2	Dr.S.Chandramohan, Professor & Head of the Department, Dept of Electrical & Electronics Engineering, Guindy, Anna University, Chennai- 600025.	University Nominee
3	Dr.N.P.Subramaniam Associate professor, Dept of Electrical & Electronics Engineering, Pondicherry Engineering college, Puducherry - 605014.	Expert Nominee (Nominated by Academic Council)
4	Dr. S.Moorthi Associate Professor, Dept of Electrical & Electronics Engineering, National Institute of Technology, Tiruchirappalli - 620015.	Expert Nominee (Nominated by Academic Council)
5	Mr.S.Selvakumar Lead Engineer, ABB Global Industries Limited, Chennai- 600089.	Member (Expert from Industry)
6	Mr.D.Prakash Project Leader, Pactron India Pvt.Ltd, Coimbatore- 641005.	Alumni




Sl.No	Members	Representation
1	Mr.M.Prabhu, Prof/EEE	Member
2	Dr.P.Jamuna, ASP/EEE	Member
3	Mr.B.Ramraj, ASP/EEE	Member
4	Mr.T.Jayakumar, ASP/EEE	Member
5	Mr.S.Elango, ASP/EEE	Member
6	Mrs.C.Pratheeba, ASP/EEE	Member
7	Mr.V.Arunkumar, ASP/EEE	Member
8	Mrs.K.Sathyasree, AP/EEE	Member
9	Mrs.R.Vijayalakshmi, AP/EEE	Member
10	Mr.V.Ravichandran, AP/EEE	Member

Autonomous Coordinator

HoD/EEE

Figure B.2.1.1b List of BOS members





**NANDHA ENGINEERING COLLEGE**  
(An Autonomous Institution affiliated to Anna University Chennai and  
Approved by AICTE, New Delhi)  
Pitchchandampalayam, Erode To Perundurai Road, Erode-638 052

**MODE: ONLINE MODE** **DATE: 05.08.2021**

ELECTRICAL AND ELECTRONICS ENGINEERING		
AGENDA- 9 <sup>th</sup> BOARD OF STUDIES		
Item-9.01	UG	Review of Action Taken Report on 8 <sup>th</sup> BOS Meeting
Item-9.02		Review of Action Taken Report on 8 <sup>th</sup> Academic Council Meeting & Governing Body
Item-9.03		Vision & Mission (Institution & Program) CO, PO, PSO mapping
Item-9.04		Approval of Online/ One Credit Courses for UG program
Item-9.05		Approval of new Program Specific Electives (PSE) course in R17 regulation for UG Program
Item-9.06		Conduct of examinations through online mode as per the Anna university guidelines
Item-9.07		Any other matter
Item-9.08		Vote of Thanks

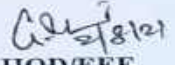
  
**HOD/EEE**  
  
 Dr. G. RAMANI, M.E, Ph. D.,  
 Head of the Department,  
 Department of EEE  
 Nandha Engineering College (Autonomous)  
 Erode - 638 052.

Figure B.2.1.1c BOS Agenda

**NANDHA ENGINEERING COLLEGE, ERODE – 638 052**  
(An Autonomous Institution, Affiliated to Anna University Chennai and  
approved by AICTE New Delhi)

**Minutes of 9<sup>th</sup> Board of Studies Meeting (BoS) held on 05.08.2021**

The 9<sup>th</sup> Board of Studies (BoS) meeting was held on 05.08.2021 by 11.00 am through online mode as per permission given by Anna University. The members attended the meeting are given in **Annexure I**.

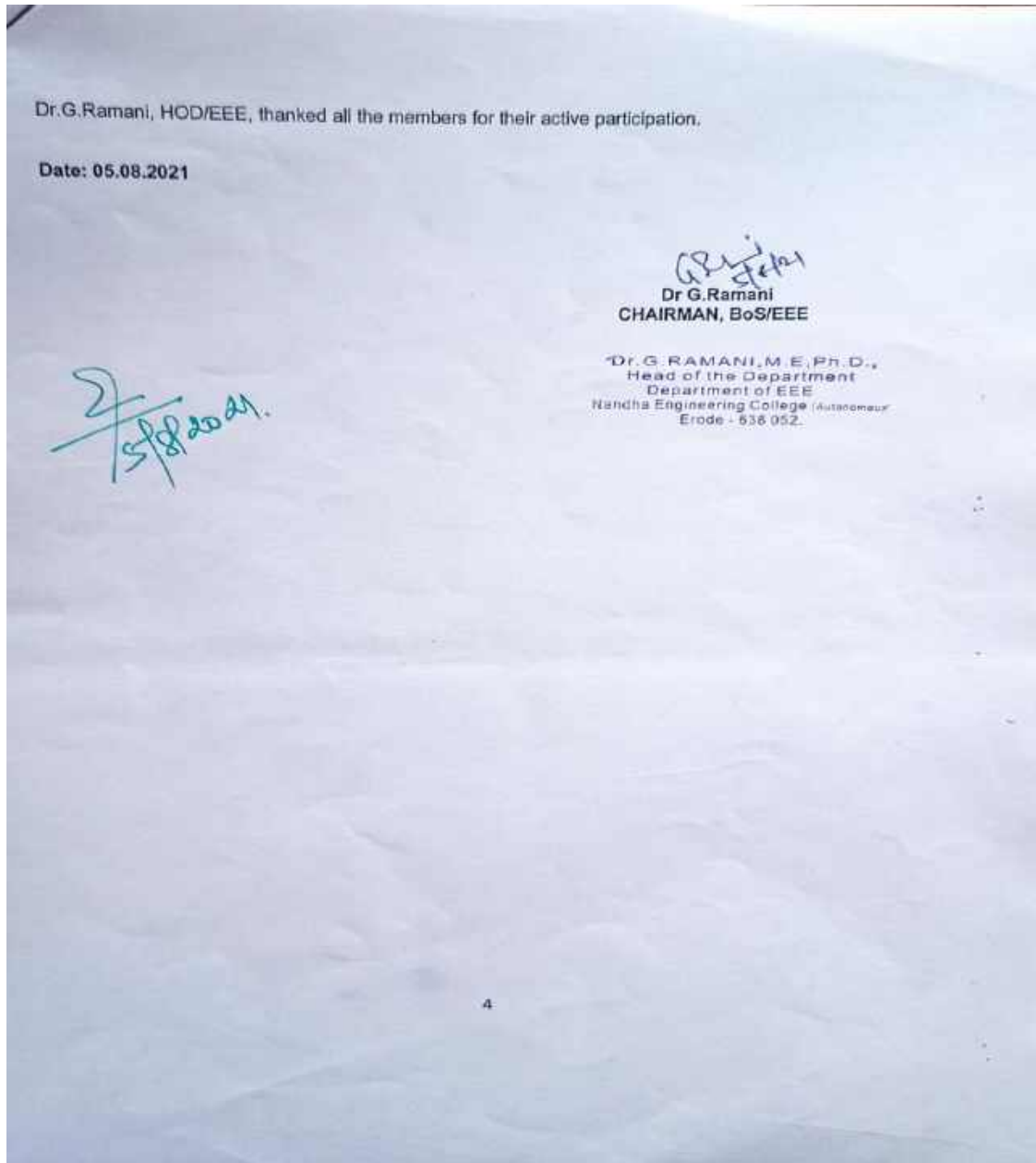
Dr. G.Ramani, Chairman (BoS) and Professor & Head, Electrical and Electronics Engineering chaired the meeting, welcomed all the members to the ninth BoS meeting and introduced the members of BoS. After the brief introduction, the agenda items listed below were taken up for discussion and the following resolutions were passed.

AGENDA	
✓ Details of members for 9th BoS	
Item-9.01	Review of Action Taken Report on 8 <sup>th</sup> BOS Meeting
Item-9.02	Review of Action Taken Report on 8 <sup>th</sup> Academic Council Meeting & Governing Body
Item-9.03	Vision & Mission (Institution & Program) CO, PO, PSO mapping
Item-9.04	Approval of Online/ One Credit Courses for UG program
Item-9.05	Approval of new Program Specific Electives (PSE) course in R17 regulation for UG Program
Item-9.06	Conduct of examinations through online mode as per the Anna university guidelines
Item-9.07	Any other matter
Item-9.08	Vote of Thanks

The proceedings of BoS started and the minutes of the meeting are recorded as follows:



	<b>Details of members for 9<sup>th</sup>BoS</b>	
Discussion	Dr.G.Ramani, Chairman/BoS introduced the members of the Board of Studies	
<b>Item 9.01</b>	<b>Review of Action Taken Report on 8<sup>th</sup> BoS meeting</b>	
Resolution	Resolved to approve the ATR of 8 <sup>th</sup> BoS meeting.	
<b>Item 9.02</b>	<b>Review of Action Taken Report on 8<sup>th</sup> Academic Council Meeting &amp; Governing Body (for Electrical and Electronics Engineering)</b>	
Resolution	Resolved to approve the Action Taken Report on 8 <sup>th</sup> Academic Council meeting	
<b>Item 9.03</b>	<b>Vision &amp; Mission (Institution &amp; Program) CO, PO, PSO mapping</b>	
Resolution	Resolved to approve the Vision & Mission (Institution & Program) CO, PO, PSO mapping	
<b>Item 9.04</b>	<b>Approval of Online/ One Credit Courses for UG program</b>	
Discussion	Members appreciated the efforts taken by the college towards providing credits for online courses and given flexibility to the students to choose courses based on their interest.	
Resolution	Members noted the contents and resolved to record the same.	
<b>Item 9.05</b>	<b>Approval of new Program Specific Electives (PSE) course in R17 regulation for UG Program</b>	
Discussion	<p><b>Electrical Machines I :</b></p> <ul style="list-style-type: none"> <li>• Dr.N.P.Subramaniam suggested to change the contact periods as 4 according to LTPC.</li> <li>• Dr.N.P.Subramaniam suggested to add a new edition for the mentioned textbook.</li> </ul> <p><b>Programme Specific Electives: Electric and Hybrid Vehicles:</b></p> <ul style="list-style-type: none"> <li>• Dr.N.P.Subramaniam suggested to add the types of design components in syllabus.</li> </ul>	<p>✓ Considered</p> <p>✓ Added</p> <p>✓ Added</p>
Resolution	Resolved to approve Programme Specific Electives (PSE) of R17 UG under Regulation R17 for the batch of students admitted in B.E – Electrical and Electronics Engineering programme from the year 2021 - 22 onwards.	
<b>Item 9.06</b>	<b>Conduct of examinations through online mode as per the Anna university guidelines</b>	
Resolution	NIL	
<b>Item 9.07</b>	<b>Any other matter</b>	
Resolution	NIL	

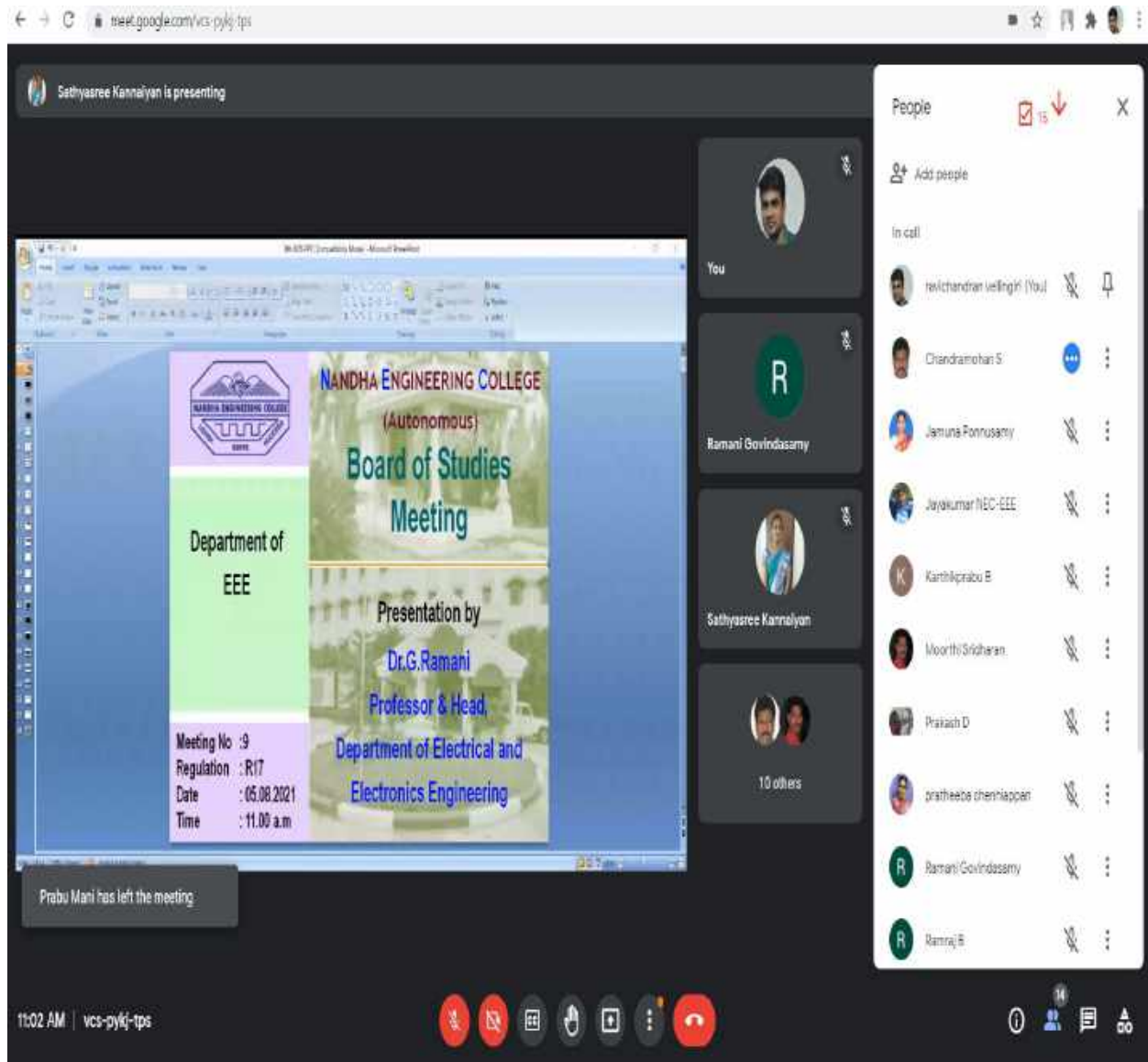


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Figure B.2.1.1d BOS Meeting Minutes







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Figure B.2.1.1e Snap Shots of BoS Meeting online Attendance





**NANDHA ENGINEERING COLLEGE**  
(Autonomous Institution)  
Pitchandampalayam, Erode To Perundurai Road, Erode-638 052

**ACADEMIC COUNCIL**

Academic Year: 2021-22

Board	All Programmes	Meeting No.	9
Venue	Online	Date & Time	08 <sup>th</sup> SEPTEMBER 2021, 11.00 AM

**MEMBERS ATTENDED**

Sl.No	Members	Representation	Signature
1	Dr. N. Rengarajan, Principal Nandha engineering college(Autonomous) Erode -52	Chairman	
2	Dr. D. Sridharan Professor Department of Electronics and Communication Engineering, CEG Campus, Anna University Chennai – 600 025 9444417161 <a href="mailto:sridhar@annauniv.edu">sridhar@annauniv.edu</a> <a href="mailto:srid.cegece@gmail.com">srid.cegece@gmail.com</a>	University Nominee	Online
3	Dr. S. Renganathan Professor Department of Biotechnology ACT Campus, Anna University, Chennai – 600 025 9941613532 <a href="mailto:srenganathan@annauniv.edu">srenganathan@annauniv.edu</a>	University Nominee	Online
4	Dr. N. V. Mahalakshmi Professor & Head Internal Combustion Engineering Div. Department of Mechanical Engineering CEG Campus, Anna University Chennai – 600 025 9941949719 <a href="mailto:nvmal2001@yahoo.co.in">nvmal2001@yahoo.co.in</a>	University Nominee	Online



5	Mr. S. Ashok Accredited Energy Auditor (by, Bureau of Energy Efficiency, Ministry of Power, Govt. of India) Coimbatore -641 035	Expert from Industry	Online
6	Mr. A. Murugantham Associate General Manager Hexaware, H5, SIPCOT IT Park, Navallur Post, Siruseri – 603 103 <a href="mailto:murugananhama@hexaware.com">murugananhama@hexaware.com</a>	Expert from Industry	Online
7	Dr. Gunavathi K. Professor Department of Electronics and Communication Engineering PSG College of Technology, Coimbatore – 641 004 <a href="mailto:kgy.ece@psgtech.ac.in">kgy.ece@psgtech.ac.in</a>	Expert from Other College	Online
8	Dr. P. Venkatachalam Principal MIT College of Agriculture and Technology, Vellalapatti, post, Musiri (Tk), Trichy – 621 211 <a href="mailto:prekhat55@yahoo.co.uk">prekhat55@yahoo.co.uk</a>	Expert from Other College	online

Figure B.2.1.1f List of Academic council members





**NANDHA ENGINEERING COLLEGE (Autonomous)  
ERODE- 638 052**

**9<sup>th</sup> ACADEMIC COUNCIL MEETING**

Venue : Online

Date:06.09.2021 11.00 AM

**AGENDA**

<b>ITEM 9.01</b>	Welcome by the Principal & Introduction of members
<b>ITEM 9.02</b>	Approval of the minutes of 8 <sup>th</sup> Academic Council meeting held on 16-10-2020 & Action taken.
<b>ITEM 9.03</b>	Approval of the minutes of 9 <sup>th</sup> BoS meeting - All Programmes. Presentation of curriculum and syllabi approved in BoS meeting by Chairperson BoS.
<b>ITEM 9.04</b>	<ul style="list-style-type: none"> <li>• New Program – B.Tech. Artificial Intelligence and Data Science</li> <li>• Accreditation – NBA &amp; NAAC</li> <li>• Ratification of 21<sup>st</sup> SCAA, 22<sup>nd</sup> SCAA &amp; 23<sup>rd</sup> SCAA meeting minutes</li> <li>• Conduct of online class, Continuous Assessment Test, End semester exams as per Anna University guideline. .</li> </ul>
<b>ITEM 9.05</b>	Any other matter
<b>ITEM 9.06</b>	Vote of Thanks -Dr. C. N. Marimuthu, Member Secretary.



  
 Principal & Chairman - Academic Council  
**PRINCIPAL**  
 Nandha Engineering College  
 (Autonomous)  
 Erode - 638 052.

**Figure B.2.1.1g. Academic Council Agenda**





**NANDHA ENGINEERING COLLEGE,  
ERODE - 638 052**

(An Autonomous Institution, Affiliated to Anna University Chennai and  
Approved by AICTE New Delhi)

**MINUTES OF THE 9<sup>TH</sup> ACADEMIC COUNCIL MEETING**

<b>Name of the Body</b>	Academic Council
<b>Meeting No.</b>	09
<b>Date &amp; Time</b>	06.09.2021, 11.00 am
<b>Mode</b>	Online Mode Nandha Engineering College (Autonomous)

Minutes of 9<sup>th</sup> Academic Council meeting, dated: 06.09.2021 Page 1





**NANDHA ENGINEERING COLLEGE, ERODE - 638052**  
 (An Autonomous Institution, Affiliated to Anna University Chennai and approved by AICTE New Delhi)  
**Minutes of 9<sup>th</sup> Academic Council Meeting (6<sup>th</sup> September 2021)**

The Ninth meeting of the Academic Council for Nandha Engineering College was held on 06.09.2021 by 11.00am through online. The list of members attended the meeting is given in Annexure I.

<b>ITEM 9.01</b>	Welcome by the Principal & Introduction of members Dr. N. Rengarajan, Principal & Chairperson of the Academic Council welcomed all the members and introduced the external members. Further, he requested the internal members to introduce themselves and briefed the agenda items.			
<b>ITEM 9.02</b>	<ul style="list-style-type: none"> <li>Approval of the minutes of 8<sup>th</sup> Academic Council meeting held on 16-10-2020 &amp; Action taken.</li> <li>Vision and Mission of the Institute</li> </ul>			
Discussion	<ul style="list-style-type: none"> <li>Dr. N. Rengarajan, Principal &amp; Chairman of the Academic Council read out the minutes of the 8<sup>th</sup> meeting of Academic Council held on 16.10.2020 and explained the action taken report of the same. Dr. S. Renganathan asked about the name of software used for process optimization in Chemical Engineering. Dr. N. Subramanian, HoD - Chemical Engineering clarified that purchase of software is under progress. Further, Dr. S. Renganathan suggested to use following software.                     <ul style="list-style-type: none"> <li>✓ Modeling and simulation- ASPEN and DWSIM</li> <li>✓ Equipment design: HTRI</li> <li>✓ Software for Fluid mechanics lab</li> </ul> </li> <li>Principal presented the statement of the vision and mission of the institute to the Academic Council members for any suggestion from the members.</li> </ul>			
Resolution	<ul style="list-style-type: none"> <li>Noted the contents of the minutes of the 8<sup>th</sup> Academic Council meeting held on 16-10-2020 and resolved to approve the same. Action Taken Report (ATR) of the last academic council was also noted by the members and approved.</li> <li>Members suggested to modify the mission statement of the Institute.</li> </ul>			
<b>ITEM 9.03</b>	Approval of the minutes of 9 <sup>th</sup> BoS meeting - All Programmes and presentation of salient features of BoS meeting of all programmes.			
Discussion	<ul style="list-style-type: none"> <li>Dr. C.N. Marimuthu, Member Secretary presented the minutes of 9<sup>th</sup> meeting of BoS of all programmes and salient points.                     <table border="1" style="margin-left: 20px;"> <tr> <td>B.E. Agriculture Engineering</td> </tr> <tr> <td>✓ Program Specific Elective: 17AGX20 - Organic Farming.</td> </tr> <tr> <td>✓ One credit course: Landscape irrigation and its automation, Test code for farm implements and Smart Agriculture Technologies</td> </tr> </table> </li> </ul>	B.E. Agriculture Engineering	✓ Program Specific Elective: 17AGX20 - Organic Farming.	✓ One credit course: Landscape irrigation and its automation, Test code for farm implements and Smart Agriculture Technologies
B.E. Agriculture Engineering				
✓ Program Specific Elective: 17AGX20 - Organic Farming.				
✓ One credit course: Landscape irrigation and its automation, Test code for farm implements and Smart Agriculture Technologies				

Minutes of 9<sup>th</sup> Academic Council meeting, dated: 06.09.2021 Page 2



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	<p><b>B.E. Biomedical Engineering (UG)</b></p> <ul style="list-style-type: none"> <li>✓ Syllabus : 7<sup>th</sup> and 8<sup>th</sup> semesters</li> <li>✓ Open Elective (OE) Courses: <ul style="list-style-type: none"> <li>• 17BMZ01 - Healthcare Technology</li> <li>• 17BMZ02 - Telemedicine</li> <li>• 17BMZ03 - Epidemiology and Pandemic Management</li> <li>• 17BMZ04 - Medical Ethics</li> </ul> </li> <li>✓ Flexibility to offer PSE/OE in 6<sup>th</sup> semester (Elective IV) and 7<sup>th</sup> semester (Elective VI) as per Clause 5.6 of Academic regulation - UG 2017 (R17)</li> <li>✓ One Credit Course: 3D Design and Modeling Tools, Medical Coding and Artificial Intelligence in Health Care (17ECI06)</li> </ul>
	<p><b>B.E. Civil Engineering &amp; M.E. Structural Engineering</b></p> <ul style="list-style-type: none"> <li>✓ UG - Program Specific Elective: Construction Safety</li> <li>✓ UG - Open Elective course: Waste Management</li> <li>✓ PG - Professional Elective: Structural Health Monitoring</li> </ul>
	<p><b>B.E. Computer Science and Engineering (UG &amp; PG)</b>  <b>B.Tech. - Artificial Intelligence and Data Science.</b></p> <ul style="list-style-type: none"> <li>✓ UG - Program Specific Elective courses: <ul style="list-style-type: none"> <li>• 17CSX33 - Google Cloud Platform</li> <li>• 17CSX34 - Tableau</li> <li>• 17CSX35 - Node JS</li> <li>• 17CSX36 - React JS</li> </ul> </li> <li>✓ One credit courses: <ul style="list-style-type: none"> <li>• 17CSI02 - Chef Automation</li> <li>• 17CSI03 - SAS Analytics and Reporting</li> </ul> </li> <li>✓ The existing curriculum and syllabi of CSE (First year) will be followed in case of the new program B.Tech. - Artificial Intelligence and Data Science.</li> </ul>
	<p><b>B.E. Electronics and Communication Engineering (UG) and M.E. VLSI Design (PG)</b></p> <ul style="list-style-type: none"> <li>✓ One credit course: 17ECI06 - Artificial Intelligence in Health Care.</li> <li>✓ Program Specific Elective: <ul style="list-style-type: none"> <li>• Cognitive Radio</li> <li>• Statistical Theory of Communication</li> </ul> </li> <li>✓ PG - Professional Elective: Signal Integrity for High Speed Design</li> </ul>
	<p><b>B.E. Electrical and Electronics Engineering (EEE)</b></p> <ul style="list-style-type: none"> <li>✓ Program Core: <ul style="list-style-type: none"> <li>• 17EEEC04 - Electrical Machines I</li> <li>• 17EEEC13 - Power Electronics</li> </ul> </li> <li>✓ One credit course: PCB Design, Robotics and Industrial Automation</li> </ul>

Minutes of 9<sup>th</sup> Academic Council meeting, dated: 06.09.2021 Page 3



	<ul style="list-style-type: none"> <li>✓ Program Specific Elective: 17EEEX25 - Electric and Hybrid Vehicles</li> </ul>
	<p>B.E. Mechanical Engineering (UG) &amp; M.E. Engineering Design (PG)</p> <ul style="list-style-type: none"> <li>✓ One credit course: 17ME104-Press Tool Design and Construction for Sheet Metal</li> </ul>
	<ul style="list-style-type: none"> <li>✓ Program Specific Elective:             <ul style="list-style-type: none"> <li>• Flexible Manufacturing System</li> <li>• Advanced Welding Technology</li> </ul> </li> <li>✓ Open Elective course: Smart Sensor system</li> <li>✓ PG -Professional Elective: Quality Concepts in Design</li> </ul>
	<p>B.Tech. Chemical Engineering (UG)</p> <ul style="list-style-type: none"> <li>✓ One Credit Courses             <ul style="list-style-type: none"> <li>• Simulation and Optimization of Cross - Country pipe line</li> <li>• Chemical Process Analysis and Optimization using DWSIM</li> <li>• Pro-Simulator Software Training</li> <li>• Unit Operations Virtual Laboratory</li> </ul> </li> </ul>
	<p>B.Tech. Information Technology (UG)</p> <ul style="list-style-type: none"> <li>✓ Program Specific Elective:17ITX27-Data Science Techniques (Ratification)</li> <li>✓ Open Elective:17ITZ05 - Java Programming (Ratification)</li> <li>✓ Program Specific Elective:17ITX28 - Agile Software Development</li> <li>✓ One credit courses: UI / UX Design and Raspberry Pi</li> </ul>
	<p>Master of Computer Applications (MCA) Program</p> <ul style="list-style-type: none"> <li>✓ Professional Elective(Ratification):             <ul style="list-style-type: none"> <li>• Data Science Techniques</li> <li>• Data Science Techniques Laboratory</li> </ul> </li> <li>✓ Professional Elective: R17 (Revised) Regulation:             <ul style="list-style-type: none"> <li>• Data Science Techniques</li> </ul> </li> <li>✓ Bridge Courses - Ratification - R17 (Revised) Regulation             <ul style="list-style-type: none"> <li>• IT Essentials and PC Installation</li> <li>• Computer Fundamentals</li> <li>• Web Design Essentials</li> <li>• Mathematical Foundations of Computer Science</li> </ul> </li> </ul>
	<p>Master of Business Administration (MBA)</p> <ul style="list-style-type: none"> <li>✓ "Services Marketing" Program Elective in Marketing Management Specialization</li> <li>✓ "Stress Management" Program Elective in Human Resource Elective Specialization</li> </ul>
	<p>Science &amp; Humanities</p> <ul style="list-style-type: none"> <li>✓ Existing 1<sup>st</sup> year curriculum and syllabi of CSE would be followed for the new program B.Tech. Artificial Intelligence and Data Science with respect to             <ul style="list-style-type: none"> <li>• English</li> <li>• Mathematics</li> </ul> </li> </ul>

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Minutes of 9<sup>th</sup> Academic Council meeting, dated: 08.09.2021 Page 4





	<ul style="list-style-type: none"> <li>• Physics</li> <li>• Chemistry</li> </ul> <p>✓ Language Elective (Open Elective for all Programs): German, Japanese and Hindi.</p>
Resolution	<p>Academic council members resolved to approve the following:</p> <ul style="list-style-type: none"> <li>✓ Minutes of 9<sup>th</sup> BoS Meeting of the programmes (Civil, CSE, ECE, EEE, Mechanical, IT, MCA, MBA and S &amp; H)</li> <li>✓ Minutes of 5<sup>th</sup> BoS Meeting of the programmes (Agri and Chemical)</li> <li>✓ Minutes of 4<sup>th</sup> BoS Meeting of the programme (Biomedical)</li> <li>✓ Minutes of 1<sup>st</sup> BoS Meeting of the programme, B.Tech. Artificial Intelligence and Data Science.</li> <li>✓ PSE courses for UG and PG of respective programmes</li> <li>✓ Open Elective courses of respective programmes</li> <li>✓ One credit courses of respective programmes</li> <li>✓ 7<sup>th</sup> and 8<sup>th</sup> Semester syllabus of BME</li> <li>✓ Bridge courses for MCA Programme (R17 - Revised)</li> <li>✓ Language elective courses</li> </ul>
ITEM 9.04	<ul style="list-style-type: none"> <li>▪ New Programme - B.Tech. Artificial Intelligence and Data Science</li> <li>▪ Accreditation - NBA and NAAC</li> <li>▪ Ratification of minutes of 21<sup>st</sup>, 22<sup>nd</sup> &amp; 23<sup>rd</sup> SCAA (Standing Committee on Academic Affairs) meetings.</li> <li>▪ Conduct of online class, Continuous Assessment Test, End semester exams as per Anna University guidelines.</li> </ul>
Discussion	<p>Principal informed about the new UG programme introduced "B.Tech. Artificial Intelligence and Data Science" from the academic year 2021-2022 and approvals of AICTE &amp; Anna University.</p> <p>He also narrated the accreditation activities and preparations related to NBA and NAAC.</p> <ul style="list-style-type: none"> <li>▪ NBA applied: 3UG Programmes (CSE, IT, ECE) and MBA</li> <li>▪ Accredited: 2 UG programmes (B.E - CSE and B. Tech. IT) and appeal submitted for ECE</li> <li>▪ Pre-qualifier approved for two more UG Programmes, B.E. Mech. &amp; EEE.</li> </ul> <p>Principal presented the resolutions of 21<sup>st</sup>, 22<sup>nd</sup> and 23<sup>rd</sup> SCAA meetings.</p> <p><b>21<sup>st</sup> SCAA:</b></p> <p>a) Conducting end semester examinations (April/May 2020) through online mode for the <b>final semesters</b> of UG and PG programmes due to COVID-19 pandemic and calculating end semester (April/May 2020) marks as per Anna University letter No.2055/AU/CAC/Final Yr. Mod/2020, dated: 19.09.2020.</p> <p>Guidelines:</p>

Minutes of 8<sup>th</sup> Academic Council meeting, dated: 06.09.2021 Page 5



	<ul style="list-style-type: none"> <li>✓ 50% weightage to the CGPA obtained up to Pre-final semester for UG and PG programmes.</li> <li>✓ 20% weightage to marks obtained in the continuous assessment test in the final semesters.</li> <li>✓ 30% weightage to ONLINE EXAMINATION (MCQ type)</li> </ul> <p>b) Conducting arrear examinations at a later date.</p> <p>Cancellation of the end semester examinations for the regular <b>UG and PG (first to pre-final year)</b> due to COVID-19 pandemic and calculating end semester (April/May 2020) marks as per the Anna University letter No. 2005/AU/CAC/Internals/2020, dated: 12.09.2020 and G.O. No. 111, dated 27.07.2020.</p> <p>Guidelines:</p> <ul style="list-style-type: none"> <li>✓ External marks: 30% weightage to the end semester marks obtained in the previous semester.</li> <li>✓ Continuous assessment marks: 70% weightage of the concerned semester.</li> </ul> <p><b>22<sup>nd</sup> SCAA:</b></p> <ul style="list-style-type: none"> <li>• Conducting regular Nov./Dec.2020 odd semester examinations for UG/PG students and April/May 2020 arrear examinations through “proctored online mode” as per the Anna University Letter No: Lr. No.19707/C12/2020, dated: 23.12.2020.</li> <li>• Decided to allow Ph.D., scholars to write course work by their physical presence and to permit UG/PG final semester students to come to college physically as per Anna University Letter 2981/AU/CAC/Rev. Sch/2020, dated 05/12/2020.</li> </ul> <p><b>23<sup>rd</sup> SCAA:</b></p> <ul style="list-style-type: none"> <li>• Conducting three special examinations in Aug 2021, Feb 2022 and Aug 2022 for the candidates exhausted the permissible maximum period as per Anna University letter No. 1900/COE/C20-C30/Sp. Exam/2021, dated: 01.04.2021 and the respective Regulations. Aug 2021 examinations to be conducted in off-line mode (3 hours duration) with pen and paper mode.</li> <li>• Conducting examinations for all UG-lateral entry students admitted as per the supplementary approval of DOTE vide letter no. NEC/DOTE-Lateral Entry/20-21/86, dated: 23.02.2021 and for PG students after receiving the approval from DOTE.</li> <li>• Ratifying the decision of April/May 2021 examinations conducted for final year (VIII semester) UG &amp; final semester PG students in proctored online mode (objective type) as per Anna University guidelines vide letter No.</li> </ul>
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Minutes of 9<sup>th</sup> Academic Council meeting, dated: 08.09.2021 Page 6



	<p>973/AU/CAC/ESE lab 2021, dated: 27.03.2021.</p> <ul style="list-style-type: none"> <li>Conducting April/May 2021 end semester examinations for 1<sup>st</sup> year to pre-final year students of UG &amp; PG, and re-exam/arrear examinations of Nov./Dec. 2020 as per Anna University letter No. 8946/CoE/COVID-19/C20-C30/2021, dated: 28.05.2021.</li> </ul> <p>Dr. N. Rengarajan, Principal requested permission for conducting of online class, continuous assessment test and end semester examinations based on the guidelines of Anna University released time to time during COVID -19 pandemic.</p> <p>Dr. S. Renganathan asked regarding the collection of answer script both soft copy and hard copy from the students. Dr. C.N. Marimuthu specified the provision of one hour time duration given for submitting the soft copy of answer scripts.</p> <p>Dr. D. Sridharan asked about the number of students appeared in the exams conducted during the pandemic period. Principal has presented the details of students appeared as given below.</p> <table border="1"> <thead> <tr> <th></th> <th>UG</th> <th>PG</th> <th>PhD.,</th> </tr> </thead> <tbody> <tr> <td>2019-20 (even sem.)</td> <td>2456*</td> <td>210</td> <td>3</td> </tr> <tr> <td colspan="4">*includes UG and PG - first to pre-final year for which assessment was done based on end semester marks obtained in the previous semester and continuous assessment marks of the concerned semester.</td> </tr> <tr> <td>2020-21 (odd sem.)</td> <td>2771</td> <td>228</td> <td>4</td> </tr> <tr> <td>2020-21 (even sem.)</td> <td>2570</td> <td>223</td> <td>11</td> </tr> </tbody> </table> <p>Exams conducted for the students who have exhausted maximum number of permissible attempts in UG-24 and PG-1</p>		UG	PG	PhD.,	2019-20 (even sem.)	2456*	210	3	*includes UG and PG - first to pre-final year for which assessment was done based on end semester marks obtained in the previous semester and continuous assessment marks of the concerned semester.				2020-21 (odd sem.)	2771	228	4	2020-21 (even sem.)	2570	223	11
	UG	PG	PhD.,																		
2019-20 (even sem.)	2456*	210	3																		
*includes UG and PG - first to pre-final year for which assessment was done based on end semester marks obtained in the previous semester and continuous assessment marks of the concerned semester.																					
2020-21 (odd sem.)	2771	228	4																		
2020-21 (even sem.)	2570	223	11																		
Resolution	<p>Resolved to ratify the decisions of 21<sup>st</sup>, 22<sup>nd</sup> &amp; 23<sup>rd</sup> SCAA (Standing Committee on Academic Affairs) meetings and approve the conduction of</p> <ul style="list-style-type: none"> <li>Regular and Arrear Examinations of April / May 2020, Nov /Dec 2020 and April / May 2021 and Special examinations for students exhausted maximum number of permissible attempts as per the Anna University guidelines and the College Regulations.</li> <li>It is also resolved to approve the conduction of online class, continuous assessment test and end semester examinations based on the Anna University guidelines released time to time and the prevailing College Regulations.</li> </ul>																				
ITEM 9.05	Any other items: Nil																				
ITEM 9.06	Vote of Thanks. Dr. C. N. Marimuthu, Member Secretary proposed the vote of thanks.																				

Date: 06-09-2021

  
Principal & Chairman - Academic Council  
**PRINCIPAL**  
**Nandha Engineering College**  
(Autonomous)  
**Erode - 638 052.**

Minutes of 9<sup>th</sup> Academic Council meeting, dated: 06.09.2021 Page 7



Figure B.2.1.1h. Academic Council Meeting Minutes

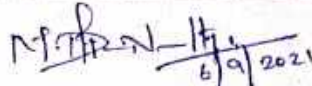

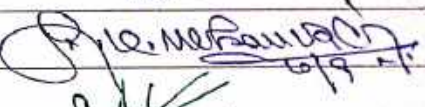
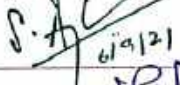
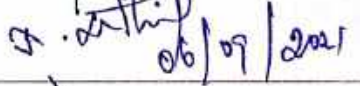

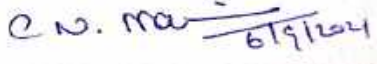
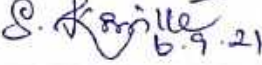
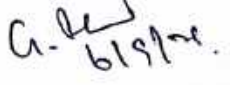
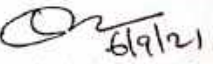
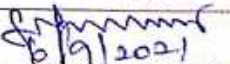
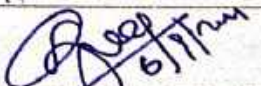



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**NANDHA ENGINEERING COLLEGE**  
(Autonomous Institution)  
Pitchandampalayam, Erode To Perundurai Road, Erode-638 052  
**ACADEMIC COUNCIL**  
Academic Year: 2021-22

**INTERNAL MEMBERS**

S.no	Members	Representation	Signature
1	Dr. M. Dhananiveitha Associate Professor & Head, Agriculture Engineering	BoS Chairman	 6/9/2021
2	Dr. S. T. Sathish Kumar Professor & Head, Bio Medical Engineering	BoS Chairman	 6/9/21
3	Dr. E. K. Mohanraj Professor & Head, Civil Engineering	BoS Chairman	 6/9/21
4	Dr. S. Arumugam Professor, Computer Science and Engineering	BoS Chairman	 6/9/21
5	Dr. J. Senthil Professor, Computer Science and Engineering	Professor	 06/09/2021
6	Prof. K. Gunasekar Associate Professor & Head, Computer Science and Engineering	Professor	 6/9/21
7	Dr. C. N. Marimuthu, Professor, Electronics and Communication Engineering	BoS Chairman	 6/9/2021
8	Dr. S. Kavitha Professor & Head, Electronics and Communication Engineering	Professor	 6.9.21
9	Dr. G. Ramani Professor & Head, Electrical and Electronics Engineering, Electronics and Instrumentation Engineering	BoS Chairman	 6/9/21
10	Dr. M. Easwaramoorthi Professor & Head, Mechanical Engineering	BoS Chairman	 6/9/21
11	Dr. N. Subramanian Professor & Head, Chemical Engineering	BoS Chairman	 6/9/2021
12	Dr. C. Siva Professor & Head, Information Technology & MCA	BoS Chairman	 6/9/21
13	Dr. V. Manimegalai Professor & Head, Master of Business Administration	BoS Chairman	 6/9/21



14	Dr. M. Vijayalakshmi Professor, Department of Chemistry	BoS Chairman	M. Vijayalakshmi 6/9/21
15	Prof. R. Thirunelakkandan Associate Professor, Physics	Teacher of the College	R. Thirunelakkandan 6/9/21
16	Ms. P. Kaviha Assistant Professor, English	Teacher of the College	P. Kaviha 6/9/21
17	Mr. P. Jaisankar Associate Professor, Maths	Teacher of the College	P. Jaisankar 6/9/21
18	Dr. D. Vanathi Professor, Professor, Computer Science and Engineering	Teacher of the College	D. Vanathi 6/9/21

**Figure B.2.1.1i. Academic Council Meeting Attendance**





**GOVERNING BODY**

Academic Year	2020-21	Meeting No.	9
Venue/Mode	Online	Date & Time	29.10.2021, 11.00 AM

**MEMBERS**

Sl. No.	Members	Representation
1	Thiru.V.Shanmugan, B.Com Chairman, Sri Nandha Educational Trust	Management
2	Mrs. S. Banumathi, Member, Sri Nandha Educational Trust	Management
3	Thiru S.NandhaKumar Pradeep M.B.A, Secretary, Sri Nandha Educational Trust	Management
4	Thiru S. Thirumoorthi B.P.T. Secretary, Nandha Educational Institutions	Management
5	Dr. S. P. Viswanathan, Advisor, Nandha Educational Institutions	Management
6	Dr. S. Arumugam, Chief Executive Officer, Nandha Educational Institutions	Management
7	Dr. J. Senthil, Professor & Director, Department of Computer Science & Engineering, Nandha Engineering College, Erode	Management
8	Dr. E. K. Mohanraj, Professor & Dean, Department of Civill Engineering, Nandha Engineering College, Erode	Faculty Nominated by Principal
9	Prof. K. Gunasekar, Associate Professor & Head Department of Computer Scieace & Engineering, Nandha Engineering College, Erode	Faculty Nominated by Principal
10	(i). Mr. Zarook Shah, Director, Grand Square Mall, Velachery, Chennai (ii). Mr. Senthil Kumar Moorthi, Manager, Engineering Programs, PayPal, Chennai (iii).Mr. Lavanam Amballa, National Campus manager, Global Campus Hiring Team, Talent Acquisition, Wipro Limited, Bangalore	Industry Nominees
11	Prof. (Dr.) Maya Ingle School of Computer Science Information Technology Devi Ahilya Vishwavidyalaya, Indore - 452 001	UGC Nominee



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**Figure B.2.1.1j. Governing Body members**





**NANDHA ENGINEERING COLLEGE**  
(Autonomous)  
Pichandampalayam, Erode to Perundurai Road, Erode-638 052

**GOVERNING BODY**

Sl. No.	Members	Representation
12	Dr. D. Padmini, Professor (CAS) & Head, Department of Civil Engineering, Government College of Technology, Coimbatore	State Government Nominee
13	Dr. B.V. Mudgal, Professor, Centre for Water Resources, Department of Civil Engineering CEG Campus, Anna University, Chennai 600 025	University Nominee
14	Dr. N. Rengarajan, Principal, Nandha Engineering College, Erode	Ex-officio Member

*[Signature]*  
21/01/21



*[Signature]*  
Principal

Dr.N.Rengarajan, B.Sc., B.Tech., M.E., Ph.D  
PRINCIPAL  
NANDHA ENGINEERING COLLEGE  
(Autonomous)  
ERODE - 638 052.

**Figure B.2.1.1k. Governing Body Agenda**



**NANDHA ENGINEERING COLLEGE, ERODE – 638 052**  
**(An Autonomous Institution, Affiliated to Anna University Chennai and**  
**Approved by AICTE New Delhi)**

**Minutes of the 9<sup>th</sup> meeting of the Governing Body held on 29.10.2021**

<b>Name of the Body</b>	Governing Body
<b>Meeting No.</b>	9
<b>Date &amp; Time</b>	29.10.2021, 11.00 A.M
<b>Venue</b>	Online





**NANDHA ENGINEERING COLLEGE, ERODE – 638 052**

(An Autonomous Institution, Affiliated to Anna University Chennai and approved by AICTE, New Delhi)

**Minutes of the Meeting (MoM)**

**9<sup>th</sup> Governing Body held on 29<sup>th</sup> October 2021**

The ninth meeting of the Governing Body of Nandha Engineering College was held on 29.10.2021 at 11.00 am by online. The list of members attended the meeting is enclosed in **Annexure I**.

The Governing body considered various items in the agenda and the deliberations are detailed below:

9.01	Welcome
	Dr. N. Rengarajan, Principal welcomed all the members
9.02	Confirmation of the minutes of 8 <sup>th</sup> Governing Body Meeting held on 12.01.2021
Discussion	Dr. N. Rengarajan, Principal presented the minutes of the 8 <sup>th</sup> meeting of Governing Body (GB)
Resolution	Noted the contents of 8 <sup>th</sup> GB meeting and approved the MoM
9.03	Report on action taken on the minutes of 8 <sup>th</sup> Governing Body Meeting (enclosed in Annexure –II)
Discussion	The Action Taken Report (ATR) was placed before the members. GB members appreciated the efforts taken by the Institution to implement the suggestions
Resolution	ATR of the last GB was noted and approved.
9.04	Approval of the minutes of following Academic Council Meetings 1. Special Academic Council held on 01.04.2021. 2. 9 <sup>th</sup> Academic Council held on 06.09.2021.
Discussion	Dr. N. Rengarajan, Principal presented the following salient points of the minutes of Special Academic Council and 9 <sup>th</sup> Academic Council meeting. <ul style="list-style-type: none"> <li>• Approval of new program B.Tech., Artificial Intelligence and Data Science</li> <li>• Minutes of Meeting of BoS of all programs</li> <li>• Conduct of online/ offline classes, Continuous Assessment Test, End Semester exams as per the guidelines of Anna University released time to time.</li> </ul>
Resolution	Members approved the minutes of Special Academic Council and 9 <sup>th</sup> Academic Council meeting.
9.05	Approval of the minutes of 11 <sup>th</sup> Finance committee meeting which was held on 29.09.2021
Discussion	Principal presented the following contents of the 11 <sup>th</sup> Finance committee meeting minutes <ul style="list-style-type: none"> <li>• CoE Budget estimate approval for 2020-21</li> <li>• Ratified Budget utilization for CoE section for year 2020-21</li> <li>• 2020-21 &amp; 2021-22 budget of Nandha Engineering College</li> </ul>
Resolution	The GB approved the minutes of the 11 <sup>th</sup> Finance Committee meeting.
9.06	Faculty Information and Approval of faculty appointments / relieving
Discussion	➤ The lists of Faculty members appointed during 2020-21 and relieved during 2020-21 were presented by the Principal. <ul style="list-style-type: none"> <li>• Faculty members appointed during the academic year 2020-21 : 44</li> </ul>



	<ul style="list-style-type: none"> <li>Faculty members relieved during the academic year 2020-21 : 20</li> </ul>
Resolution	The GB members noted the faculty information and resolved to record the same.
Item 9.07	Affiliation Details and Student Admission details
9.07.01	<ul style="list-style-type: none"> <li>a AICTE Extension of Approvals</li> <li>b Approval of New Programme: B.Tech-Artificial Intelligence and Data Science</li> </ul>
9.07.02	Anna University Affiliation
Discussion	<ul style="list-style-type: none"> <li>Principal presented the Student Admission details for the Academic year 2020-21 and 2021-22. AICTE extension approvals and Anna University affiliation details of 2020-21 for all the Programmes were presented. Further, informed the validity status of CSE, ECE and MECH research centers. The members appreciated for having 3 Research centres and 31 faculty members pursuing Ph.D.</li> <li>Principal also informed the AICTE approval for New Programme: B.Tech-Artificial Intelligence and Data Science.</li> <li>Mr. Senthil Kumar Moorthy appreciated the efforts taken by the Institution activities with industries in various forms during the pandemic period. He also suggested to consider the statistics of Govt. exam cleared students and entrepreneurs to motivate the current students.</li> <li>Dr. J. Senthil, Professor and Director, updated the initiative to enable a portal for grouping alumni and students related to Govt. exams cleared candidates and entrepreneurs.</li> <li>Dr. D. Padmini, State Govt. Nominee, asked the admission status of new programme (B.Tech-Artificial Intelligence and Data Science), the credits given for Internship activities, details related to Value Added Courses, One Credit Courses, yoga classes, conduction of classes as per guidelines of Anna university during pandemic period and introduction New Academic Regulation.</li> <li>Principal informed that the admission of AI &amp; DS found to be encouraging and clarified the credits given for Internship activities and One Credit Courses. He explained the conduct of yoga classes and its inclusions in timetable. Further, he told that the New Academic Regulation (R22) will be introduced in the Academic year 2022-23.</li> </ul>
Resolution	Noted and recorded the approvals by AICTE and Anna University.
9.08	<ol style="list-style-type: none"> <li>Honours and Achievements.</li> <li>Accreditation: NBA - 3 Programmes</li> </ol>
Discussion	<p>Principal has presented the Honors and Achievements of the Institution as given below:</p> <ul style="list-style-type: none"> <li>5-star rating by Institution's Innovation Council (IIC) of Ministry of Education,</li> <li>THE WEEK <ul style="list-style-type: none"> <li>Ranked 112<sup>th</sup> among Engineering College in ALL INDIA</li> <li>Ranked 85<sup>th</sup> among Private Engineering Colleges in India</li> <li>Ranked 57<sup>th</sup> among Top Engineering Colleges – South Zone (including Govt &amp; Private)</li> <li>Ranked 50<sup>th</sup> among Top Engineering Colleges – South Zone</li> </ul> </li> <li>DATAQUEST <ul style="list-style-type: none"> <li>Ranked 65<sup>th</sup> among Top 100 T Schools in India 2021 (including Govt&amp; Private)</li> <li>Ranked 53<sup>rd</sup> among Top Private T Schools in India 2021</li> </ul> </li> <li>281 Students have participated and won 11 prizes in various co-curricular events</li> <li>15 Students have participated and won 5 prizes in various extra-curricular events</li> </ul>



	<ul style="list-style-type: none"> <li>➤ Secured best ISTE student award including one State level award.</li> <li>➤ Nandha Engineering College had been honoured with Award of Excellence on Performance Category (2020-21) by PALS in appreciation for participation in PALS, a forum of IIT Alumni :- 480 students and 50 faculty members.</li> <li>➤ MSME funding for Business Incubation (Rs. 15 lakhs) (Roll and Pull Uprooting Machine)</li> <li>➤ Placement: IT sector -218 students, Core – 169 students</li> <li>➤ Dr. S. Arumugam had been awarded the Fellowship Award in 53<sup>rd</sup> Annual Convention in CSI 2020 from Computer Society of India-2020.</li> <li>➤ 37 students have participated in Hackathon Program</li> <li>➤ 12 faculty members got certified as Innovation Ambassadors by MoE, Govt. of India to promote innovations, IPR related activities</li> <li>➤ College has been allowed to be the Nodal Centre for Toyathon 20-21</li> <li>➤ NBA Accreditation: 3 Programmes (ECE, IT and CSE) had been accredited with good scores (Score: 675 above), 2 programmes (Mech and EEE) had uploaded SAR report and awaiting NBA inspections.</li> <li>➤ Principal narrated the accreditation activities and preparations related to NAAC.</li> </ul> <p>Dr. Maya Ingle appreciated the achievements and improvements in various aspects and activities of the college. Further, they congratulated the college academic members for their accreditation achievements and above efforts to ensure college positioning in NIRF ranking and other rankings.</p>
Resolution	Noted and resolved to record the achievements and accreditation activities.
9.09	Co-curricular Activities
Discussion	<p>Principal has presented the details of club activities conducted as a part of "Co-curricular and Extracurricular Activities".</p> <ul style="list-style-type: none"> <li>➤ Mr. Senthil Kumar Moorthi suggested to give training on Hacherrank type of tools to improve the problem solving skills of students in IT sector. Further he advised to bring the International clubs for engaging students to improve their communication standards and include story telling activities to improve communication skills.</li> <li>➤ Dr. J. Senthil, Professor and Director, assured to bring International Clubs like Toastmaster Club in upcoming year.</li> </ul>
Resolution	Recorded the details of club activities under Co-curricular and Extracurricular Activities
9.10	Academic performance of students
Discussion	Principal presented the details of eligible graduands to receive the degree during the year 2020-21. GB members appreciated the efforts taken for the conduct of exams in the pandemic period.
Resolution	Noted the results.
9.11	Academic Initiatives
Discussion	<p>Principal presented the following academic initiatives and students benefited.</p> <ul style="list-style-type: none"> <li>• One Credit : 13 Courses</li> <li>• Add-On Course : 4 Courses</li> <li>• Course Exemption : 379 out of 736 Students</li> <li>• Internship / Industry Projects : 77 Students</li> <li>• Essence of Indian Traditional Knowledge : 674 students</li> <li>• Human Values : 520 students</li> <li>• Open Elective : 533 Students (Odd) + 265 Students (Even)</li> <li>• Embedded Course : 25 courses</li> <li>• MoUs signed: 4, Industrial visits: 2 and Faculty Industry Education: 12</li> <li>• Constitution of India : 673 student</li> </ul>



	<ul style="list-style-type: none"> <li>Establishment of Industry sponsored laboratories</li> <li>IQAC: - AQAR 2020-21 (Annual Quality Assurance Report)</li> <li>Social activities: COVID awareness programs, Visit to Old age home, Tree plantation, Helmet awareness program, etc.</li> </ul> <p>➤ Principal presented the IQAC-AQAR report (2020-21) followed by the explanation of the same by Dr. J. Senthil, Director-IQAC.</p> <p>➤ Dr. Maya Ingle asked the statistics of NPTEL online courses (Faculty and Students certifications). Principal replied that 63 faculty members and 143 students have cleared the courses. He also stated that the students are permitted to earn maximum 3 credits for online courses (per course) depending on the duration of the courses.</p> <p>➤ Dr. Maya Ingle also stressed the importance of introduction and implementation of Life Skills (Jeevan Kaushal) courses like Communication, Career and Universal Human values courses as per UGC guidelines. Principal explained that the initiatives have been made to include various skills related to Life Skills in the form of Personal value courses. Further Life Skills courses and National Education Policies will be included based on the time to time directions of the regulatory bodies.</p>
Resolution	Resolved to approve the IQAC-AQAR report (2020-21) and implement the suggestion.
9.12	Faculty Activities
	R & D: Publications. Faculty Development - Conferences, Workshops & FDPs. Consultancy & Grant in Aid Received.
Discussion	Principal presented the Research policy and R & D details as given below: Details of Journal publications (115), Conferences (36), Workshops & FDPs attended (347 nos.), FDP organized (16 nos.), Consultancy work undertaken (48 nos. Rs.4,46,750 /-) and Grant-in-Aid received (AICTE-RPS: MODROB: 9.14 lakhs, AICTE-STTP: 3.5 lakhs, AICTE-Conference: 1.6 lakhs and DST-SERB funding: 0.5 lakh) during the academic year 2020-21 were presented by Principal. Also highlighted the number of patent (20) and copyright (41) filed up to the academic year 2020-21.
Resolution	Resolved to approve the Research policy and record other activities.
9.13	Vision and Mission
Discussion	Principal presented the vision and mission statements of the Institute and sought suggestions from the GB members. Members suggested to consider the revision of Mission statements.
Resolution	Resolved to consider the suggestions.
9.14	Infrastructure development initiatives
Discussion	Principal explained about the progress of New Auditorium, Diagnostic and Therapeutic lab, Industry supported Lab by Vi-Micro Systems, Virtusa Lab and establishment of Centre of Excellence with Companies (4).
Resolution	Resolved to record the activities.
9.15	Scholarship Schemes
Discussion	Principal presented the merit scholarships awarded by the management. Scholarship amounts sectioned: Rs. 2 crores Number of students benefited: 725 (under various schemes like merit scholarship, single parent scholarship, Alumni scholarship etc.)
Resolution	Noted and appreciated the support of management.



9.16	<p>Any other items :</p> <ul style="list-style-type: none"> <li>Y Dr. B.V. Mudgal, University Nominee, enquired the vaccination status of the students and faculty members in the college campus. Dr. J. Senthil replied that most of the students and faculty members have got vaccinated and rest of them will be vaccinated soon.</li> <li>Y Principal presented the list of members in the Management Committee of the MSME Business Incubator. GB members approved the Management Committee.</li> <li>Y Mr. Senthil Kumar Moorthy highlighted the importance of need of women empowerment, enhancement of the technical leadership among women and maintenance of good female gender ratio in colleges.</li> <li>Y Dr. J. Senthil updated some of the initiatives to enhance students skills as follows:             <ul style="list-style-type: none"> <li>• Introduction of Hackerrank and Hackerearth have been made as a part of curriculum.</li> <li>• Introduction Examly portal and Pearson self learning tool to enhance students' skills.</li> </ul> </li> <li>Y Mr. Senthil Kumar Moorthi appreciated the initiatives and efforts in implementing feedbacks and suggestions of GB members.</li> </ul>
9.17	<p><b>VOTE OF THANKS</b></p> <p>Dr. J. Senthil expressed his sincere thanks to management members, UGC Nominee Prof. (Dr.) Maya Ingle, State Government nominee Dr. D. Padmini, Anna University nominee Dr. B.V. Mudgal, Industry nominees Mr. Senthil Kumar Moorthi, Mr. Lavanam Amballa and other members for their valuable suggestion. Also assured to take suggestions of members forward.</p>

Date: 29.10.2021



  
 Dr. N. Rengarajan  
**PRINCIPAL**  
 Nandha Engineering College  
 (Autonomous)  
 Erode - 638 052.

Figure B.2.1.1l. Governing Body Minutes





**NANDHA ENGINEERING COLLEGE**  
(Autonomous Institution)  
Pitchandampalayam, Erode To Perundurai Road, Erode-638 052

**GOVERNING BODY**

Academic Year	2020 - 21	Meeting No.	9
Venue/Mode	Online	Date & Time	29 <sup>th</sup> October 2021, 11.00 AM

**MEMBERS ATTENDED**

Sl.No.	Members	Representation	Signature
1	Thiru. V. Shanmugan, B.Com Chairman, Sri Nandha Educational Trust	Management	V. Shanmugan
2	Mrs. S. Banumathi, Member, Sri Nandha Educational Trust	Management	S. Banumathi
3	Thiru. S. NandhaKumar Pradeep M.B.A, Secretary, Sri Nandha Educational Trust	Management	Online Mode
4	Thiru. S. Thirumoorthy B.P.T., Secretary, Nandha Educational Institutions	Management	Online Mode
5	Dr. S.P. Viswanathan, Advisor, Nandha Educational Institutions	Management	S.P. Viswanathan 29/10/2021
6	Dr. S. Arumugam, Chief Executive Officer, Nandha Educational Institutions	Management	S. Arumugam 29/10/21
7	Dr. J. Senthil, Professor & Director, Department of Computer Science and Engineering, Nandha Engineering College, Erode	Management	J. Senthil 29/10/2021
8	Dr. E. K. Mohanraj, Professor & Dean, Department of Civil Engineering, Nandha Engineering College, Erode	Faculty Nominated by Principal	E. K. Mohanraj 29/10/2021
9	Prof. K. Gunasekar, Professor & Head, Department of Computer Science and Engineering, Nandha Engineering College, Erode	Faculty Nominated by Principal	K. Gunasekar





**NANDHA ENGINEERING COLLEGE**  
(Autonomous Institution)  
Pitchandampalayam, Erode To Perundurai Road, Erode-638 052

**GOVERNING BODY**

10	Mr. Lavanam Amballa, National Campus manager Global Campus Hiring Team, Talent Acquisition, Wipro Limited, Bangalore	Industry Nominee	Leave of absence
11	Mr. Zarook Shah, Director, Grand Square Mall, Velachery, Chennai	Industry Nominee	Online
12	Mr. Senthil Kumar Moorthi, Manager, Engineering Programs, Pay Pal, Chennai	Industry Nominee	Online
13	Prof. (Dr.) Maya Ingle, School of Computer Science, Information Technology, Devi Ahilya Vishwavidyalaya Indore - 452 001	UGC Nominee	Online
14	Dr. D. Padmini, Professor (CAS) & Head, Department of Civil Engineering, Government College of Technology, Coimbatore.	State Government Nominee	Online
15	Dr. B.V. Mudgal, Professor, Centre for Water Resources, Department of Civil Engineering CEG Campus, Anna University, Chennai 600 025	University Nominee	Online
16	Dr. N. Rengarajan, Principal, Nandha Engineering College, Erode	Ex-officio Member	N. Rengarajan

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**Figure B.2.1.1m. Governing Body Attendance**



**2.1.2 Structure of the Curriculum****(5)****Self Assessment (5)**

The Curriculum is structured and categorized as basic sciences, engineering sciences, humanities and social sciences, program core courses, program specific electives and open electives as per AICTE/ UGC guidelines.

**Table B.2.1.2a Structure of UG Engineering program as per AICTE guidelines**

S.No	Course Category	Breakup of credits
1	Basic Sciences	26
2	Engineering Sciences	20
3	Humanities and Social Sciences	12
4	Program Core	53
5	Program Specific Electives	18
6	Open Electives	18
7	Project(s)	11
8	Mandatory Courses	0
	<b>Total number of Credits</b>	<b>158</b>

**Table B.2.1.2b Definition of credits as per AICTE guidelines**

S.No	Details	Credits
1	1 Hr. Lecture (L) per week	1
2	1 Hr. Tutorial (T) per week	1
3	1 Hr. Practical (P) per week	0.5
4	2 Hours Practical(Lab)/week	1

The contact hours and credit for each course is arrived based on the AICTE/ UGC guidelines. The complete structure of the Electrical and Electronics Engineering Program is





detailed in following table.

**Table B.2.1.2c Structure of the Curriculum – Regulation 2017**

Course Code	Course Title	Total Number of contact hours				Credits
		Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	
17EYA01	Professional English- I	2	0	2	4	3
17MYB01	Calculus and Solid Geometry	3	2	0	5	4
17PYB01	Physics for Engineers	3	0	0	3	3
17CYBO2	Applied Electrochemistry	3	0	0	3	3
17MEC01	Engineering Graphics	2	2	0	4	3
17CSC02	Python Programming	3	0	0	3	3
17CSP02	Python Programming Laboratory	0	0	4	4	2
17GYP02	Engineering Practices Laboratory	0	0	4	4	2
17GEP01	Personal Values	0	0	2	2	0
17EYA02	Professional English – II	2	0	2	4	3
17MYB02	Complex Analysis and Laplace Transforms	3	2	0	5	4
17PYB05	Physics of Solids	3	0	0	3	3
17CYB03	Environmental Science	3	0	0	3	3
17GYC01	Basics of Civil and Mechanical Engineering	3	0	0	3	3
17EEC02	Electric Circuit Theory	3	2	0	5	4
17GYP01	Physics and Chemistry Laboratory	0	0	4	4	2
17EEP01	Electric Circuit	0	0	4	4	2



	Laboratory					
17GEP02	Inter personal Values	0	0	2	2	0
17MYB05	Transforms and Partial Differential Equations	2	2	0	5	3
17EEC03	Electronic Devices and Circuits	3	0	0	3	3
17EEC04	Electrical Machines-I	2	2	0	5	3
17EEC05	Field Theory	3	0	0	3	3
17EEC06	Power Plant Engineering	3	0	0	3	3
17ITC03	Data Structures and algorithms	2	0	2	5	3
17EEP02	Electronic Devices and Circuits Laboratory	0	0	4	4	2
17EEP03	Electrical Machines-I Laboratory	0	0	4	4	2
17GED02	Soft Skills- Reading and Writing	0	0	2	2	0
17MYB10	Probability, Statistics & Numerical Methods	2	2	0	5	3
17EEC07	Electrical Machines-II	2	2	0	5	3
17EEC08	Linear Integrated Circuits	3	0	0	3	3
17EEC09	Digital Logic Circuits	3	0	0	3	3
17EEC10	Transmission and Distribution	3	0	0	3	3
E1	Elective I (PSE)	3	0	0	3	3
17EEP04	Electrical Machines-II Laboratory	0	0	4	4	2
17EEP05	Linear and Digital Integrated Circuits	0	0	4	4	2



	Laboratory					
17GED01	Soft Skills- Listening and Speaking	0	0	2	2	0
17GED03	Personality and Character Development	0	0	1	2	0
17GEA02	Principles of Management	3	0	0	3	3
17EEC11	Measurements and Instrumentation	3	0	0	3	3
17EEC12	Control Systems	3	2	0	5	4
17EEC13	Power Electronics	3	0	0	3	3
17EEC14	Communication Engineering	3	0	0	3	3
E2	Elective II (PSE)	3	0	0	3	3
17EEP06	Control and Instrumentation Laboratory	0	0	4	4	2
17EEP07	Power Electronics Laboratory	0	0	4	4	2
17GED08	Essence of Indian traditional knowledge	2	0	0	2	0
17EEC15	Power System Analysis	3	2	0	5	4
17EEC16	Microprocessor and Microcontroller	3	0	0	3	3
E3	Elective III (PSE)	3	0	0	3	3
E4	Elective IV (PSE)	3	0	0	3	3
E5	Elective V (PSE)	3	0	0	3	3
E6	Elective VI (PSE/OE)	3	0	0	3	3
17EEP08	Microprocessor and Microcontroller	0	0	4	4	2



	Laboratory					
17GED06	Comprehension	0	0	2	2	0
17GED07	Constitution of India	2	0	0	2	0
17EEC17	Electric Drives and Control	3	0	0	3	3
17EEC18	Power System Protection and Switch Gear	3	0	0	3	3
17EEC19	Principles of Embedded Systems	3	0	0	3	3
17EEC20	Power System Operation and Control	3	0	0	3	3
E7	Elective VII (PSE/OE)	3	0	0	3	3
17EEP09	Power System Simulation Laboratory	0	0	4	2	2
17EED01	Project Work I	0	0	8	8	4
E8	Elective VIII (PSE)	3	0	0	3	3
E9	Elective IX (OE)	3	0	0	3	3
17EED02	Project Work II	0	0	16	16	8
<b>Total</b>		<b>125</b>	<b>20</b>	<b>89</b>	<b>238</b>	<b>170</b>



**2.1.3 State the components of the curriculum****(5)****Self Assessment (5)**

*Program curriculum grouping based on course components*

As per the AICTE regulatory body, a curriculum should consist of

➤ **Basic Science (BS) Courses**

The courses like Mathematics, Physics and Chemistry with laboratory courses are added in basic sciences category.

➤ **Engineering Science (ES) Courses**

The courses like Basic of Electronics Engineering, Digital Principles and System Design, Engineering Graphics Laboratory, Electronics laboratory are included in this category.

➤ **Humanities and Social Science (HSS) Courses**

The courses like Professional English and Management Courses are covered in this category.

➤ **Program Core (Professional Core) Courses**

Department may also offer a set of professional core courses marked as soft choice in two or three streams which may lead to specialization in the professional elective streams.

➤ **Program Specific Elective (Professional Electives) Courses**

Department may also offer professional electives as pre-defined groupings organized in discrete domains/streams, so that a student can choose one such domain in which he/she wishes to gain in-depth understanding, knowledge and skill.

➤ **Open Elective Courses**

Choice Based Credit System (CBCS) is carried out in such a way that different open elective courses are offered by every department in Engineering to other departments. Students can choose subjects from different streams to build interdisciplinary skills and improve their job opportunity benefits.



➤ **Project Work**

Project Work is a multifaceted assignment that serves as a culminating academic and intellectual experience for students, typically during their final year.

The main objective is to encourage students to apply their knowledge, skills and critical thinking in solving real time problems applicable to the society, industry or any other problems for which the technology solution can be given ethically through the acquired skills during the program.

➤ **Employability Enhancement Courses (EEC)**

This program includes various courses focusing on Personality Enhancement, Employability Enhancement Job Specific skills development and Soft Skills Development (like Communication Skills, Presentation Skills, Public Speaking etc.). This ensures our graduates possessing a right blend of knowledge, skills and attitude to be successful.

➤ **Internship/ Industrial Training**

The students may undergo training or internship and the credits earned will be indicated in the mark sheet. If the student earns three credits in industrial training/ internship, the student may drop one Programme Specific Elective (PSE).

➤ **Any Other courses**

Certain mandatory non-credit courses need to be studied before the completion of the course.

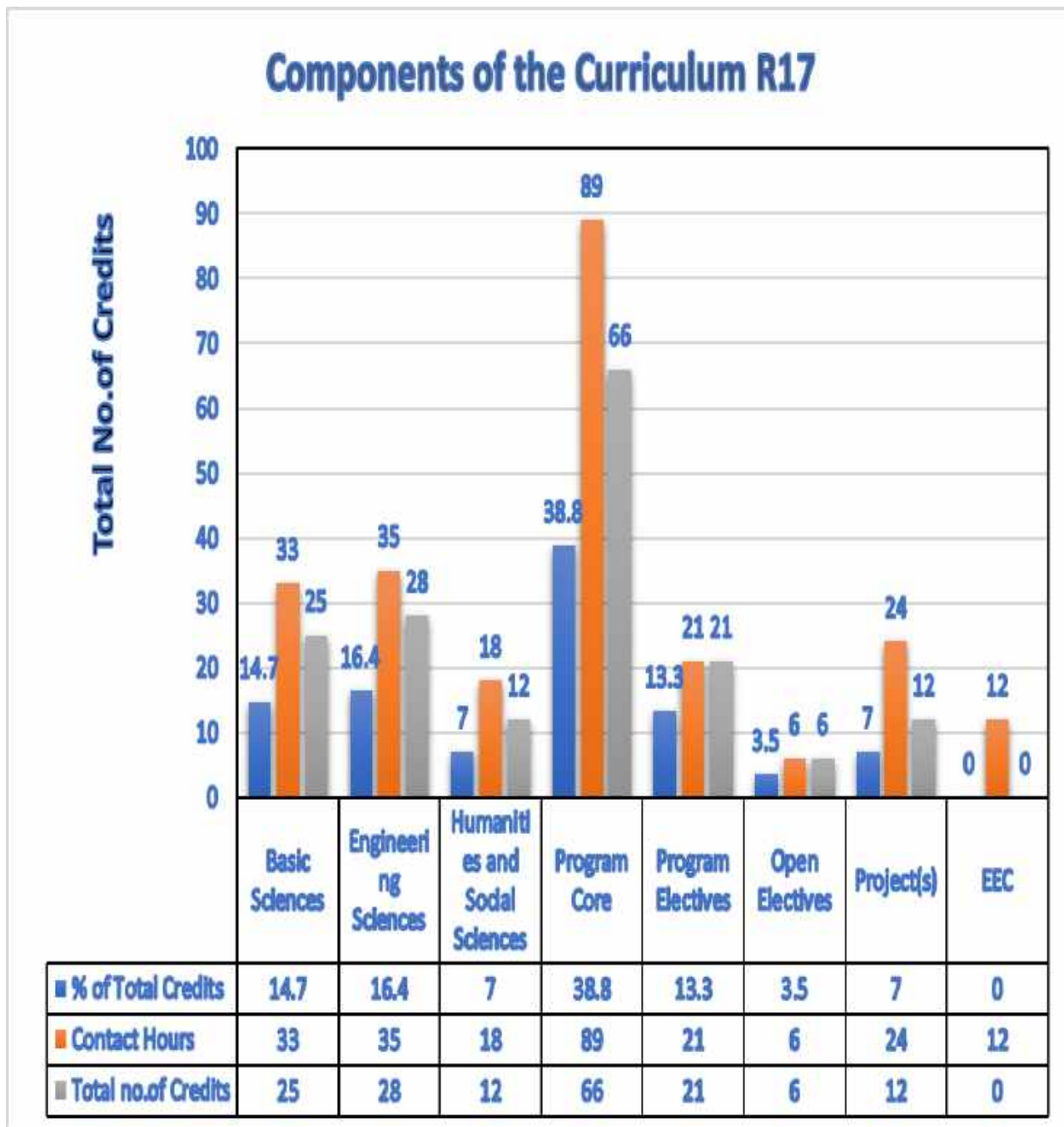


## Regulation 2017

Table B.2.1.3a Regulation 2017

Course Component	Curriculum Content (% of total number of credits of the program )	Total number of contact hours	Total number of credits
Basic Sciences	14.70	33	25
Engineering Sciences	16.4	35	28
Humanities and Social Sciences	7.0	18	12
Program Core	38.8	89	66
Program Specific Electives	13.3	21	21
Open Electives	3.5	6	6
Project(s)	7.0	24	12
Employability Enhancement Courses	0	12	0
<b>Total number of Credits</b>			<b>170</b>





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Figure B.2.1.3a Regulation 2017

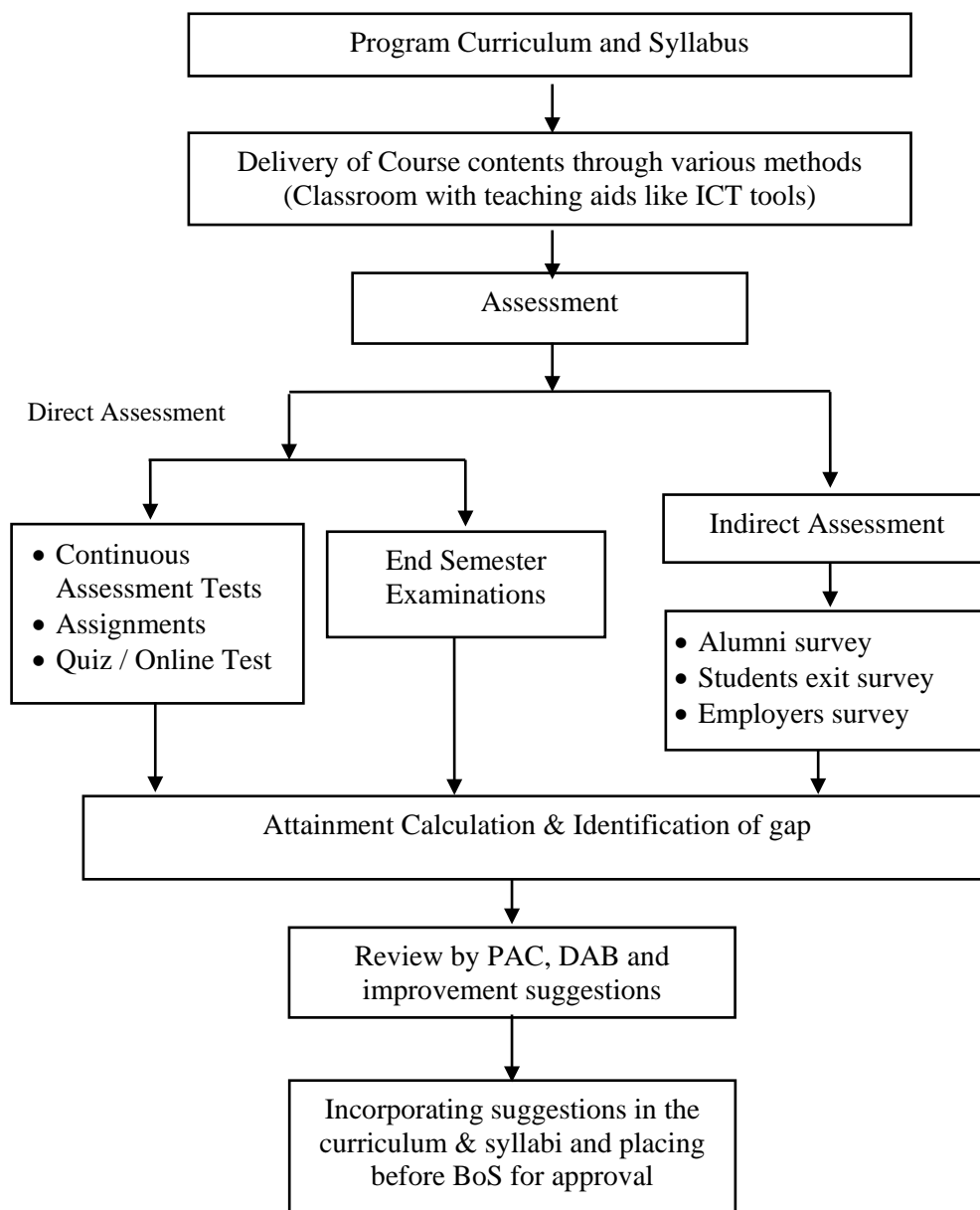




### 2.1.4 State the process used to identify extent of compliance of the curriculum for attaining the Program Outcomes and Program Specific Outcomes as mentioned in Annexure I (10)

#### Self Assessment (10)

The process adopted to identify the extent of compliance of curriculum attainment with respect to POs and PSOs is presented below:



**Figure B.2.1.4a** Process for Attaining PO and PSOs



- As presented in Figure B.2.1.4a, the process adopted to identify the extent of compliance of curriculum attainment with respect to POs and PSOs is described below:

i. Direct assessment is done by processes of analyzing performance of students by

- ✓ Continuous Assessment Test
- ✓ Assignments
- ✓ Online Test
- ✓ End Semester Examinations

ii. Indirect assessment is done by conducting

- ✓ Course end survey
- ✓ Student exit survey
- ✓ Alumni survey
- ✓ Employer survey

The outcome of the above process is analyzed and inputs are taken for improving the content of curriculum and syllabi, besides the suggestions of course coordinators who periodically monitor the attainment levels of COs, POs and PSOs and supplement the suggestions.

In addition to the above, program curriculum satisfies the program specific criteria specified by the following Lead societies.

1. Lead society: Institute of Electrical and Electronics Engineering (IEEE)

a. Structure of the curriculum must provide

- Both breadth and depth across the range of engineering topics implied by the title of the program.

b. Curriculum must include

- Probability and statistics, including applications appropriate to the program name
- Mathematics through differential and integral calculus
- Sciences (defined as biological, chemical, or physical science) and Engineering topics (including computing science) necessary to analyze and design complex electrical and



electronic devices, software, and systems containing hardware and software components.

2. Lead society: Cooperating Society for Biological, Computer and Information Engineering Technology (CASB)

The curriculum must prepare graduates to analyze, design, verify, validate, implement, apply, and maintain software systems; to appropriately apply discrete mathematics, probability and relevant topics in computer science and supporting disciplines to complex software systems; to work in one or more significant application domains; and to manage the development systems.

3. Lead society: American Society for Engineering Education (ASEE)

Lead Society is for General Engineering, Engineering Physics and Engineering Science. Based on ASEE goals (innovation, excellence) the technological education is fostered and there by PO's, PSO's are attained.

4. Lead society: International Society for Optical Engineering (ISOE)

The curriculum must provide both breadth and depth across the range of engineering in realizing optical and/or photonic devices and systems implied objectives of the program.

As per the IEEE, CASB, ASEE and ISOE, the structure of the curriculum must provide both breadth and depth across the range of engineering topics implied by the title of the program.

The following TABLE 2.1.4a represents that some program curriculum satisfy the program specific criteria specified by the Lead Societies like IEEE, CASB, ASEE and IOSE relevant to the Electrical and Electronics Engineering under accreditation.

**TABLE B. 2.1.4a Program Specific Criteria Specified by the Lead Societies**

	<b>Category of the subjects mentioned in IEEE, CASB, ASEE and IOSE</b>	<b>Course Code</b>	<b>Program Specific Courses</b>	<b>Satisfaction of the Program Specific Courses</b>
	Mathematics(IEEE) (Probability and Statistics, including applications appropriate to the program name, Mathematics through differential and integral calculus)	17MYB01	Calculus and Solid Geometry	➤ The courses in this module provide Mathematical foundation to solve real time problems. With the study of Calculus and
		17MYB02	Complex Analysis and Laplace Transforms	
		17MYB05	Transforms and Partial Differential Equations	
		17MYB10	Probability, Statistics & Numerical Methods	



					Solid Geometry, Complex Analysis and Laplace Transforms, Transforms and Partial Differential Equations the students are able to solve the differential equations of certain types and to handle application in engineering fields. With the study of Probability and Stochastic Process students can able to solve Communication problems.
	Basic Sciences (IEEE and ASEE) (Defined as biological, chemical, or physical science)	17PYB01	Physics for Engineers	➤ These courses will help the students to gain the knowledge in basic sciences, so that they can apply these concepts in devices fabrication and communication systems design to achieve communication.	
		17CYB02	Applied Electrochemistry		
		17PYB05	Physics of Solids		
		17CYB03	Environmental Science		
		17GYP01	Physics and Chemistry Laboratory		
	Engineering Science(ASEE)	17MEC01	Engineering Graphics	➤ The courses in this module as supportive concepts to achieve communication system design.	
		17GYC01	Basics of Civil and Mechanical Engineering		
	Engineering (IEEE and BMES) (Necessary to analyze and design complex electrical and electronic	Professional Core and Technical Software	17EEC02	Electric Circuit Theory	➤ The courses like Circuit theory, Electronic Devices and Circuits, Linear Integrated Circuits, Digital Logic Circuits and corresponding labs will expertise the students to
			17EEP01	Electric Circuit Laboratory	
			17EEC03	Electronic Devices and Circuits	
			17EEC04	Electrical Machines-I	
			17EEC05	Field Theory	
			17EEC06	Power Plant Engineering	



devices, software, and systems containing hardware and software components)	17EEP02	Electronic Devices and Circuits Laboratory	<p>design circuits in both hardware and software.</p> <p>➤ The courses like Electrical Machines, Control Systems, Electric Devices and Control will make the students expertise in designing and controlling the various electrical machines.</p> <p>➤ The courses like Microprocessors and Microcontrollers and Principles of Embedded Systems with MPMC laboratory components introduce the students about Embedded applications.</p>
	17EEP03	Electrical Machines-I Laboratory	
	17EEEC07	Electrical Machines-II	
	17EEEC08	Linear Integrated Circuits	
	17EEEC09	Digital Logic Circuits	
	17EEEC10	Transmission and Distribution	
	17EEP04	Electrical Machines-II Laboratory	
	17EEP05	Linear and Digital Integrated Circuits Laboratory	
	17EEEC11	Measurements and Instrumentation	
	17EEEC12	Control Systems	
	17EEEC13	Power Electronics	
	17EEP06	Control and Instrumentation Laboratory	
	17EEP07	Power Electronics Laboratory	
	17EEEC15	Power System Analysis	
	17EEEC16	Microprocessor and Microcontroller	
	17EEP08	Microprocessor and Microcontroller Laboratory	
	17EEEC17	Electric Drives and Control	
	17EEEC18	Power System Protection and Switch Gear	
	17EEEC19	Principles of Embedded Systems	
	17EEEC20	Power System Operation and Control	
17EEP09	Power System Simulation Laboratory		
Computer Programming Courses (CASB)(Analyze, design, verify, validate, implement, apply, and	17CSC02	Python Programming	<p>➤ The programming courses help the students identifying</p>
	17CSP02	Python Programming Laboratory	



maintain software systems)	17ITC03	Data Structures and algorithms	appropriate Data Structures and algorithms for a given contextual problem. The study of these courses enhances the Programming skills of the students and provides basic ideas about networking and computer.
Realizing optical and/or photonic devices and systems (ISOE)	17EEC14	Communication Engineering	➤ These courses will help the students to design Optic Fiber Communication System and Networks.

Following Table B.2.1.4b shows some of the course which exhibits correlation between the courses and the POs & PSOs. The correlation levels 1, 2 or 3 are defined as 1:Slight (Low) 2: Moderate (Medium) 3: Substantial (High).

**Table B.2.1.4b Sample of Courses to indicate CO/ PO Mapping Salient Features of the Curriculum**

Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
17EEC04	Electrical Machines I	3	3	2	3	2	3	3	2	0	0	2	2	3	3	0	2
17EEC09	Digital Logic Circuits	2	3	3	3	3	0	0	2	3	0	3	2	2	2	2	3
17EEC12	Control Systems	3	3	3	3	3	3	2	0	2	3	3	3	3	3	3	3
17EEC15	Power System Analysis	2	3	2	3	2	1	0	0	1	0	1	2	3	3	0	2
17EEC18	Power System Protection And Switch Gear	2	2	2	2	0	3	0	3	3	3	3	3	2	2	0	2
17EEX22	Fundamentals Of Electric Power Utilization	2	2	2	2	0	3	3	0	0	0	0	3	3	2	0	2



To inculcate the habit of lifelong learning, the curriculum has flexibility such as:

- i. Embedded Courses - learning through theory, embedded with laboratory experiments (theory and practical simultaneously).
- ii. Seminars/ guest lectures to acquire technical knowledge, soft skills and personality development.
- iii. Summer internships and inplant training to learn industrial practices and to enhance the employability.
- iv. Flexibility to choose subjects through open electives, self-study electives, one-credit courses and special electives further to enhance analytical ability, innovative thinking and creativity.
- v. Life skills related courses as an integral part of curriculum.
- vi. Choice Based Credit System (CBCS) is implemented for the first time in the Regulation 2015.

The major continuous improvements in the Regulations are shown in the following table B.2.1.4c.

**Table B.2.1.4c Continuous Improvements in the Regulation**

S. No.	Category	Regulation 2013	Regulation 2015	Regulation 2017
1.	Curricular flexibility	Course exemption for Language Electives and One credit Courses	Continued	<ul style="list-style-type: none"> <li>• Credits for Professional/ Technical certifications/ MOOCS/ Online Courses/ Internships</li> <li>• Fast Track Course</li> <li>• Add-on Course</li> <li>• Workshop Mode Course</li> <li>• Industrial Projects</li> </ul>
2.	Examination	Common pattern	Common pattern	<ul style="list-style-type: none"> <li>• Introduced Different Question Paper Pattern</li> </ul>



3.	Assessment	25% for Continuous assessment & 75% for End semester assessment.	40% for Continuous assessment & 60% for End semester assessment	Continued
4.	Summer/ Winter Track/Repeat/ Redo	-	-	Introduced
5.	Embedded Courses	-	Introduced	One of the Programme Specific Elective is added as an embedded course
6.	Mandatory non-credit courses	-	-	<ul style="list-style-type: none"> <li>• Constitution of India</li> <li>• Essence of Indian Traditional Knowledge</li> <li>• Personality and Character Development</li> <li>• Soft Skills, etc.</li> </ul>
7.	Choice Based Credit System	-	CBCS introduced from 4 <sup>th</sup> semester onwards	Continued

**2.2 Teaching-Learning Processes****(70)****Self Assessment (70)****2.2.1 Describe Processes followed to improve quality of Teaching & Learning (15)****Self Assessment (15)**

*(Processes may include adherence to academic calendar and improving instruction methods using pedagogical initiatives such as real world examples, collaborative learning, quality of laboratory experience with regard to conducting experiments, recording observations, analysis of data etc. encouraging bright students, assisting weak students etc. The implementation details and impact analysis need to be documented)*

**Academic calendar preparation and adherence:**

The academic calendar is prepared at the beginning of each semester in discussion with



**NANDHA**  
ENGINEERING COLLEGE (Autonomous)



HoDs of various departments, Controller of Examinations office and released with the approval of the Principal.

The academic schedule consists of commencement of classes, last instruction day, continuous assessment test dates, model practical examinations dates, end semester practical exams dates, end semester theory exams dates, working days and holiday. A sample of academic calendar is given below in Figure B.2.2.1a.

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Nandha Engineering College (Autonomous), Erode - 638 052

Academic Year 2021-22 (Even Semester)

Academic Calendar for B.E./B.Tech/ME/MBA/MCA

Date	Day	B.E./B.Tech (VIII Semester) ME/MBA (IV Semester) MCA (IV & VI Semester)	B.E./B.Tech (VI Semester)	B.E./B.Tech (IV Semester)	Remarks
09.03.2022	Wednesday	Commencement of Classes	1		
10.03.2022	Thursday	Orientation Programme on OBE	Placement Training (18.02.2022 to 12.03.2022)		
11.03.2022	Friday				
12.03.2022	Saturday				
13.03.2022	Sunday	*****		*****	*****
14.03.2022	Monday		Commencement of Classes	1	Commencement of Classes
15.03.2022	Tuesday		Orientation Programme on OBE	2	Orientation Programme on OBE
16.03.2022	Wednesday			3	
17.03.2022	Thursday			4	
18.03.2022	Friday			5	
19.03.2022	Saturday			6	
20.03.2022	Sunday	*****	*****	*****	Holiday
21.03.2022	Monday			7	
22.03.2022	Tuesday			8	
23.03.2022	Wednesday			9	
24.03.2022	Thursday			10	
25.03.2022	Friday			11	
26.03.2022	Saturday	*****	*****	*****	Fourth Saturday Holiday
27.03.2022	Sunday	*****	*****	*****	Holiday
28.03.2022	Monday			12	
29.03.2022	Tuesday			13	
30.03.2022	Wednesday			14	
31.03.2022	Thursday			15	
01.04.2022	Friday			16	
02.04.2022	Saturday	*****	*****	*****	Telugu New Year Holiday
03.04.2022	Sunday	*****	*****	*****	Holiday
04.04.2022	Monday	Assignment I		17	
05.04.2022	Tuesday			18	
06.04.2022	Wednesday	CAT I		19	
07.04.2022	Thursday			20	
08.04.2022	Friday	Online Test I		21	
09.04.2022	Saturday	Project Review I		22	
10.04.2022	Sunday	*****	*****	*****	Holiday
11.04.2022	Monday	Project Review I		23	
12.04.2022	Tuesday			24	
13.04.2022	Wednesday			25	
14.04.2022	Thursday	*****	*****	*****	Tamil New Year Holiday
15.04.2022	Friday	*****	*****	*****	Good Friday Holiday
16.04.2022	Saturday	*****	*****	*****	In lieu of 15.04.2022 Holiday

17.04.2022	Sunday	*****	-	*****	-	*****	-	Holiday
18.04.2022	Monday		30		26		26	
19.04.2022	Tuesday		31		27		27	
20.04.2022	Wednesday	Assignment II	Assignment I	Assignment I	32	28	28	
21.04.2022	Thursday				33	29	29	
22.04.2022	Friday				34	30	30	
23.04.2022	Saturday	*****	-	Add on Course	-	Add on Course	-	Fourth Saturday Holiday
24.04.2022	Sunday	*****	-	Add on Course	-	Add on Course	-	Holiday
25.04.2022	Monday	CAT II	CAT I	CAT I	35	31	31	
26.04.2022	Tuesday				36	32	32	
27.04.2022	Wednesday	Online Test II			37	33	33	
28.04.2022	Thursday	Re-CAT	CAT I	CAT I	38	34	34	
29.04.2022	Friday				39	35	35	
30.04.2022	Saturday	Project Review II			40	36	36	
01.05.2022	Sunday	*****	-	Add on Course	-	Add on Course	-	Holiday
02.05.2022	Monday	Project Review II			41	37	37	
03.05.2022	Tuesday	*****	-	Add on Course	-	Add on Course	-	Ramzan Holiday
04.05.2022	Wednesday				42	38	38	
05.05.2022	Thursday				43	39	39	
06.05.2022	Friday				44	40	40	
07.05.2022	Saturday				45	41	41	PCD Activity 1
08.05.2022	Sunday	*****	-	*****	-	*****	-	Holiday
09.05.2022	Monday				46	42	42	
10.05.2022	Tuesday				47	43	43	
11.05.2022	Wednesday				48	44	44	
12.05.2022	Thursday				49	45	45	
13.05.2022	Friday				50	46	46	
14.05.2022	Saturday	-	Add on Course	-	Add on Course	-	Add on Course	Second Saturday Holiday
15.05.2022	Sunday	*****	-	Add on Course	-	Add on Course	-	Holiday
16.05.2022	Monday				51	47	47	
17.05.2022	Tuesday				52	48	48	
18.05.2022	Wednesday				53	49	49	
19.05.2022	Thursday				54	50	50	
20.05.2022	Friday				55	51	51	
21.05.2022	Saturday				56	52	52	
22.05.2022	Sunday	*****	-	Add on Course	-	Add on Course	-	Holiday
23.05.2022	Monday				57	53	53	
24.05.2022	Tuesday				58	54	54	
25.05.2022	Wednesday				59	55	55	
26.05.2022	Thursday				60	56	56	
27.05.2022	Friday				61	57	57	
28.05.2022	Saturday	Final Project Review	-	One Credit Course	-	One Credit Course	-	Fourth Saturday Holiday
29.05.2022	Sunday	*****	-	One Credit Course	-	One Credit Course	-	Holiday
30.05.2022	Monday	Final Project Review			62	58	58	
31.05.2022	Tuesday				63	59	59	
01.06.2022	Wednesday				64	60	60	



02.06.2022	Thursday		65		61		61		
03.06.2022	Friday		66		62		62		
04.06.2022	Saturday		67		63	PCD Activity 2	63		
05.06.2022	Sunday	*****	-	Add on Course	-	Add on Course	-	Holiday	
06.06.2022	Monday		68	Assignment II	64	Assignment II	64		
07.06.2022	Tuesday		69		65		65		
08.06.2022	Wednesday		70		66		66		
09.06.2022	Thursday		71		67		67		
10.06.2022	Friday	Project Report Submission (Dean CoE)	72		68		68		
11.06.2022	Saturday		-	Model Exam for Laboratory Courses	69	Model Exam for Laboratory Courses	69		
12.06.2022	Sunday	*****	-	Add on Course	-	Add on Course	-	Holiday	
13.06.2022	Monday		73	CAT II	70	CAT II	70		
14.06.2022	Tuesday		74		71		71		
15.06.2022	Wednesday		75		72		72		
16.06.2022	Thursday		76		73		73		
17.06.2022	Friday		77		74		74		
18.06.2022	Saturday	Last Working Day	78	Last Working Day	75	Last Working Day	75		
19.06.2022	Sunday	*****	-	Add on Course	-	Add on Course	-	Holiday	
20.06.2022	Monday	Attendance Proforma Submission to CoE	79	Attendance Proforma Submission to CoE	76	Attendance Proforma Submission to CoE	76		
21.06.2022	Tuesday		80	Online Test II	77	Online Test II	77		
22.06.2022	Wednesday	Practical Examinations Slot (Tentative)	81	Re-CAT	78	Re-CAT	78		
23.06.2022	Thursday		82		79		79		
24.06.2022	Friday		83		80		80		
25.06.2022	Saturday		-	Add on Course	-	Add on Course	-	Fourth Saturday Holiday	
26.06.2022	Sunday	*****	-	Add on Course	-	Add on Course	-	Holiday	
27.06.2022	Monday	Commencement of End Semester Examinations (Theory - Tentative)		Practical Examinations Slot (Tentative)		Practical Examinations Slot (Tentative)			
28.06.2022	Tuesday								
29.06.2022	Wednesday								
30.06.2022	Thursday								
01.07.2022	Friday								
02.07.2022	Saturday								
03.07.2022	Sunday	*****	-	*****	-	*****	-	Holiday	
04.07.2022	Monday			Commencement of End Semester Examinations (Theory - Tentative)		Commencement of End Semester Examinations (Theory - Tentative)			
05.07.2022	Tuesday								
06.07.2022	Wednesday								
07.07.2022	Thursday								
08.07.2022	Friday								
09.07.2022	Saturday	*****	-	*****	-	*****	-	Second Saturday Holiday	
10.07.2022	Sunday	*****	-	*****	-	*****	-	Holiday	

Tentative Reopening Date of Classes for Next Semester: 25.07.2022 (Monday)

*P. V. J. S. Rao*  
Dean (Academics)  
09/08/2022

*P. S. H. P.*  
Director  
09/08/2022

*M. S. R.*  
Principal

Figure B.2.2.1a Screenshot of Academic Calendar



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The timetable is prepared based on the Academic calendar and academic workloads are assigned to the individual faculty. The academic calendar and class timetable are circulated to the students and also displayed on the notice board. Individual faculty members prepare lesson plan based on the academic calendar and class timetable. The adherence to the academic calendar is ensured in the following ways:

- Monitoring of syllabus coverage by HoDs
- Reviewing syllabus coverage in the department meeting
- Adherence to Academic calendar is ensured by reviewing syllabus coverage and CAT dates in HoD's meeting and rescheduling of exams will be decided in the meeting if there is any deviation due to unavoidable situation



**NANDHA ENGINEERING COLLEGE, ERODE -638 052**  
(AUTONOMOUS)  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**CIRCULAR**

All the final year students are asked to follow the rules and regulations for the Project work Phase-II as per the Regulation R17. The Mode of evaluation is based on the R17 Regulation.

As per the Regulation project reviews will be conducted and the tentative dates are given.

Review 0 - 20 marks Date: 24.03.22  
Review 1 - 40 marks Date : 09.04.22  
Review 2 - 40 marks Date : 25.04.22

The review committee has formed for the smooth conduct of Review.  
Committee members are,

1. Dr. M. Balachandran, PROF/EEE
2. Dr. T. Jayakumar, AP/EEE
3. Mr. B. Ramraj AP/EEE
4. Ms. R. Vijayalakshmi AP/EEE

*hru*  
*21/3/22*  
**PROJECT CO-ORDINATOR**  
Dr. G. Ramani  
Dr. P. Jeevana  
Member Cum Coordinator

*hru*  
*21/3/22*  
**HOD/EEE**

**Figure B.2.2.1b Screenshot of Project Schedule(Adherence of Academic Calendar)**



### Pedagogical Initiatives

The following Pedagogical initiatives are being practiced to increase students' engagements and learning outcomes of students.

**ICT tools:** Apart from chalk and board method, ICT tools such as projectors, computers, laptops, software programs, animations, MOOC Videos/ Webinar, etc are used to engage learners effectively and enhance learning outcome of students with the demonstration of real time examples in the classrooms. In addition, innovative teaching methods like quiz, role play, edmodo classroom, you tube videos, seminar, lecture notes using NPTEL videos, etc., are also employed as described below in figure B.2.2.1b.

**Interfacing students with industrial practices:** The students could get experience of learning real world examples as they are engaged in the following ways in connection with industries.

- Industrial visits
- In-plant Training
- Internship
- Industrial projects
- Industry sponsored laboratory
- MoU's with industries and subsequent engagement of students
- One-credit courses conducted by industry persons

**Embedded courses:** It is a course having both theory and practical components. The Embedded courses are included in the curriculum from first semester onwards. Both theory and practical are taught to the students. Due weightage for both theory and practical components are given during the evaluation. This kind of courses improves practical knowledge and easy understating of concepts to the students.

**Table B. 2.2.1a Embedded Courses in Regulation - R17**

S. No.	Semester	Course Code	Course Title	Category	L	T	P	C
1.	01	17EYA01	Professional English- I	HS	2	0	2	3
2.	02	17EYA02	Professional English- II	HS	2	0	2	3
3.	03	17ITC03	Data Structures and Algorithms	ES	2	0	2	3



4.	04	E1	Elective	PSE	2	0	2	3
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### One credit courses

In order to bridge the gap between academic and industry, the students are encouraged to register for one credit courses taught by concerned domain experts from the industry. Lecture/Hands on training happen for 15 hours in two weekends followed by an assessment. Students can register for one credit courses from third semester onwards. Later students can exempt a three credit elective subject in the final semester. Industry standards are learned better during the course of study itself.

**Table B.2.2.1b One Credit Courses**

ACADEMIC YEAR 2021-2022			
S.No	DATE	TITLE	RESOURCE PERSON
1	16.10.21 &17.10.21	17EEI04-INDUSTRIAL AUTOMATION	Novitech
2	28.5.2021 &29.5.2021	17EEI03-SCADA AUTOMATION	Axis global technologies

ACADEMIC YEAR 2020-2021			
S.No	DATE	TITLE	RESOURCE PERSON
1	13.03.2021 &14.03.2021	17EEI02 & PLC AUTOMATION	Mikrosun Technology

ACADEMIC YEAR 2019-2020			
S.No.	DATE	TITLE	RESOURCE PERSON



1	10.08.2019 &11.08.2019	17EEI02 & PLC Automation	Mr.Amul Babu Application Engineer (SMEC AUTOMATION)
2	08.02.2020 &09.02.2020	17EEI03 & SCADA Automation	Mr.Jagatheesh Project Engineer (AXIS GLOBAL)

**ACADEMIC YEAR 2018-2019**

S.No.	DATE	TITLE	RESOURCE PERSON
1	11.08.2018 &12.08.2018	15EEI02 & SCADA Automation	Mr.D.Rajasekaran Application Engineer (AXIS GLOBAL)
2	23.02.2019 &24.02.2019	15EEI05 & PLC Automation	Mr.D.Rajasekaran Application Engineer (AXIS GLOBAL)
3	23.02.2019 &24.02.2019	17EEI01 & PCB Designing	Mr.V.S.Nivedhan Senior Engineer (POWER PROJECTS)

**Table B.2.2.1c CO/ PO Mapping of One Credit Courses**

ACADEMIC YEAR 2021-2022																	
Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
17EEI04	Industrial Automation	3	2	3	2	3	2	2	1	0	0	0	2	3	3	0	3
17EEI03	SCADA Automation	3	2	3	3	3	2	2	1	0	0	0	2	3	3	0	3





ACADEMIC YEAR 2020-2021																	
Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
17EEI02	PLC Automation	3	2	3	3	3	2	1	2	0	0	0	2	3	3	0	3

ACADEMIC YEAR 2019-2020																	
Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
17EEI02 &	PLC Automation	3	2	3	3	3	2	1	2	0	0	0	2	3	3	0	3
17EEI03	SCADA Automation	3	2	3	3	3	2	2	1	0	0	0	2	3	3	0	3

ACADEMIC YEAR 2018-2019																	
Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
15EEI02	SCADA Automation	3	2	3	3	3	2	2	1	0	0	0	2	3	3	0	3
15EEI05	PLC Automation	3	2	3	3	3	2	1	2	0	0	0	2	3	3	0	3
17EEI01	PCB Designing	3	3	2	2	3	2	2	2	0	0	0	2	3	3	0	3

### Collaborative Learning

- **Project-Based Learning:** In the curriculum one subject per semester is given to the students as Project-Based Learning (PBL) in which students explore realistic subject problems and challenges.

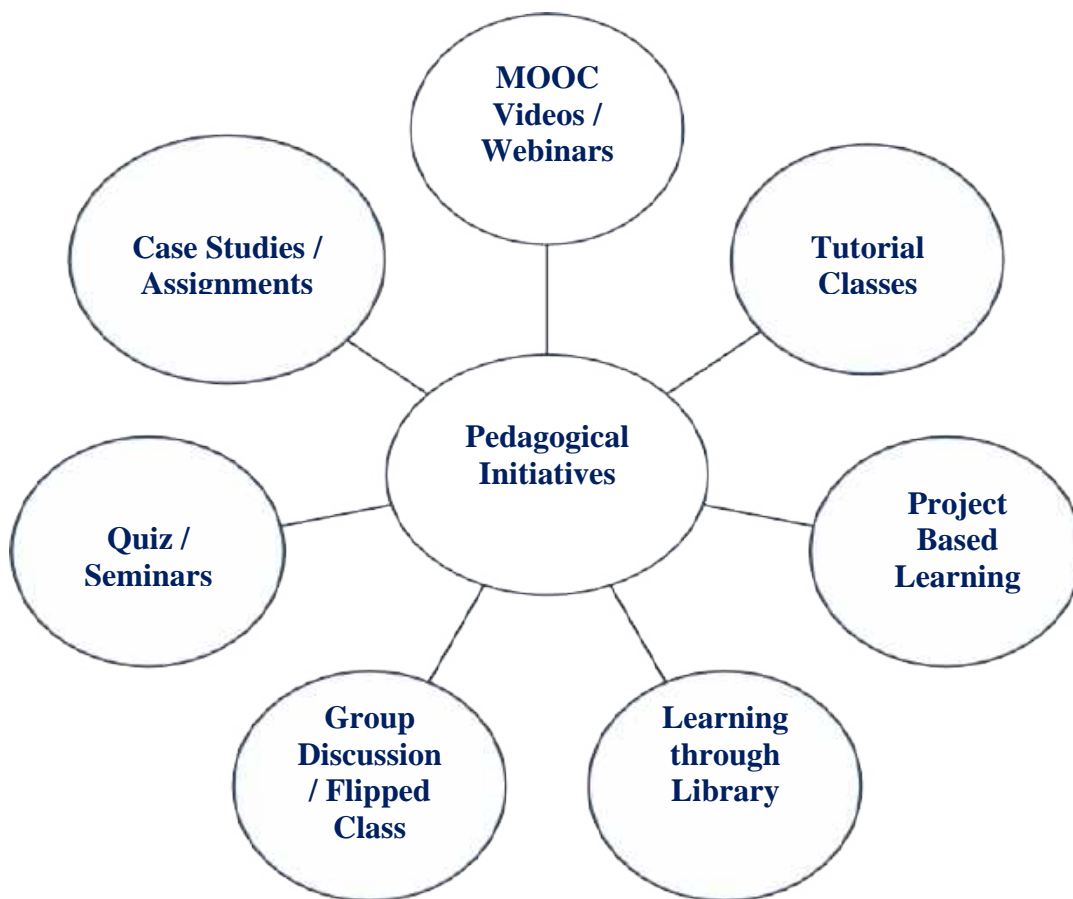


PBL is introduced to enable the students to apply the course principles on specific topic from the subject covering a unit or the entire syllabus and to carry out projects as part of the course. With this type of active and engaged learning, students are inspired to obtain a practical knowledge of the subjects they are studying.

Each project designed for PBL will be done by a group (3 to 4) of students. For instance in Mechatronics, a real time problem is assigned to each and every group. When concepts about Sensors are taught in theory, the students will be able to decide the sensors to be used for their problem. Likewise after completion of each and every phase the student will practically implement the concept learnt to solve the problem and finally simple deployable software will be used to design the circuits (if needed) by the students. This enables the student to understand the theory in a better manner.

The Projects developed in PBL will be scrutinized and submitted to CiPD for evaluation. Further, Innovative projects are encouraged for commercial deployment. Students are also motivated to do consultancy projects for various entrepreneurs and industries.





**Figure B.2.2.1c Pedagogical Initiatives**

- **Group Discussions:** This involves discussion among a group of students to assess the application of various concepts. By discussing among themselves, they gain better perspective about the merits & demerits of the various concepts
- **Flipped Class (for tutorial class/ assignments/ industrial case studies):** The faculty post the materials and publish the course plan in Google Classroom. The students are encouraged to prepare for the class before a topic is dealt in the class. The teacher plays the role of the facilitator and helps the students to understand any complex concepts through small group discussions
- **Add on courses**  
The students with good CGPA and without backlogs are encouraged to register to additional subjects from fifth semester onwards. Eligible students can register for one

additional subject (3 or 4 credits) in each semester (V, VI and VII). These subjects are taught during weekends classes. Regular assessment happens to this subject. The students who have earned this credit can drop same number of credits in the higher semester. The college provides Bridge/ Remedial courses for various categories of students.

**Table B.2.2.1d Add on Courses**

S. No.	Semester	Course Code	Course Title	Category	L	T	P	C
1	06	15EEX12	Power Quality	PSE	3	0	0	3
2	05	17EEX10	Special Electrical Machines	PSE	3	0	0	3

**Table B.2.2.1e CO/ PO Mapping of Add on Courses**

ACADEMIC YEAR 2021-2022																	
Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
17EEX10	Special Electrical Machines	3	2	3	2	2	2	2	1	0	0	0	2	3	3	0	2
15EEX12	Power Quality	2	3	3	3	2	3	3	1	0	0	0	2	3	3	0	2

### Bridge Courses

Bridge Courses are organized for the first year students to provide basic computer knowledge to students from biology stream in higher secondary school.

Bridge courses are also conducted for the lateral entry students at the beginning of third and fourth semester to enhance the knowledge on Mathematics.

### Remedial courses

Remedial coaching is given to the average and the slow learners by taking extra coaching classes for slow learners during evening hours, prior to internal exams and end of semesters.



### **Learning through Library**

To augment Teaching - Learning process, modernized library resources are used in different ways for both students and staff members. The students are allotted separate session in the timetable as library period to get benefitted. The teachers and students are permitted to access the library books, journals and magazines. Department Library also functions to cater to the immediate needs of teachers and students.

**Enhancing students learning by engaging with professional societies and leading universities:** The students are favoured by enabling them in participation of activities of professional societies and further they are encouraged in doing Project internship in leading foreign universities like Universiti Teknologi Petronas to explore their talents in international level.

**Flexible Faculty Selection:** One of the facilities available to students is Flexible Faculty Selection system in choosing their faculty members for the courses.

**Open electives for multidisciplinary knowledge:** The students gain multidisciplinary knowledge by means of open elective courses to bring out innovative interdisciplinary projects and innovations.

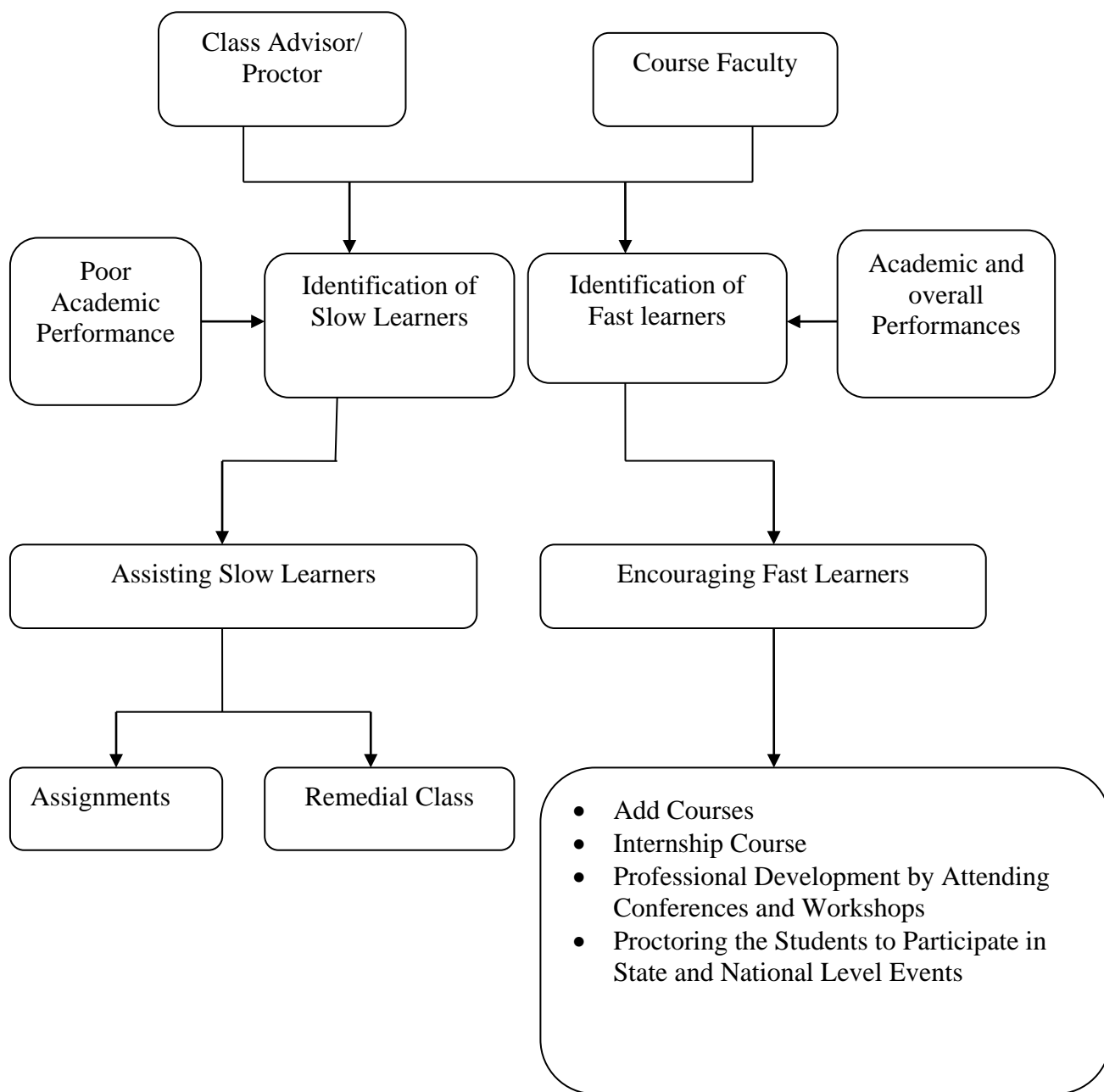
### **Methodologies to support slow learners and encourage bright students:**

The process of identifying slow learners and bright students is presented below and followed by the methodologies descriptions

The College has provided the following facilities for career guidance:

- Student Industrial Preparatory wing focuses on industrial relevant subjects handled by the faculty members who got trained by industry.





**Figure B.2.2.1d Process used to identify and support the Slow Learners and Fast learners**



- Placement and training cell with full time Placement Officer and Trainer provides training from the beginning of the first year.
- Online test, mock interviews, group discussions are given to the students, making them ready for placement.
- Inviting companies for presentation and conduct of campus placements.
- Higher Education Cell provides way to prepare for Competitive exam and GATE.
- Entrepreneurship Development Cell motivates the students to become entrepreneurs through regular Entrepreneurship Awareness Camp programs and thus make them job providers rather than job seekers.

### **Encouragement for the bright students**

Fast learners are encouraged to utilize every opportunity that enhances their potential. This helps them to improve their standard of excellence. Add course option is provided to bright students with an objective of relieving them from the regular academic workload and spare the time for internship, preparing for placement/ higher studies/ competitive examinations/ industry projects, participation in seminars/ workshops/ conferences/ product development activities - CiPD, supporting slow learners through quality circle concept.

### **Methodologies to encourage the slow learners**

The slow learners are supported by the faculty members in the following ways:

- Remedial classes for slow learners
- Interaction of Parents of slow learners
- Counselling by proctors
- Peer learning
- Providing simplified learning materials





**Figure B. 2.2.1e Quality Circle to improve the performance of slow learners**

The slow learners are encouraged to meet the faculty regularly to gain additional instructions related to their studies. Previous year solved question papers are distributed to the above category students which helps them to improve their academic performance.

### **Quality of classroom teaching**

Clean and spacious classrooms with requisite furniture, boards, UPS connections, etc, are facilitated for enabling the right eco-system to impart quality education. The faculty members adopt following Teaching & Learning methodologies to create the effective learning ambience for students their classrooms:





- a) Integration of technology with classroom:** In order to effectively engage students and improve the quality of teaching-learning process, faculty members use video lectures, online resources and ICT tools(Projector, Laptop/ Computer, softwares, etc) along with conventional black board teaching method.
- b) Support for active learning:** Faculty members guide students to be active learner by providing course handouts and class notes (digital course contents) well in advance. The students are engaged in classroom activities regularly beyond listening lecture by means of quizzes, online tests, seminars, tutorials/ assignments. Students are effectively involved in the classroom by presenting the learning contents of previous class session and summarizing briefly at the end of the class in a random manner in-order to demonstrate their personalized learning experience.
- c) Enhancing quality of teaching through industrial experience:** The faculty members are encouraged to undergo FDP and online courses (NPTEL) to improve their pedagogical skills from time to time. Further they are involved to visit industries and learn the industrial practices.

### Conduct of experiments:

The process of conducting experiments in a laboratory is explained in the following steps:

- The lab manuals are prepared well before the commencement of the semester as prescribed in the syllabus.
- The total number of experiments in the laboratory course is divided into two cycles (Cycle 1 and Cycle 2).
- Each class is divided into two groups and the two groups are sent to two separate laboratories; in further they are divided into batches of maximum four students.
- Each group will do the experiments separately in order to make them understand and conduct the laboratory experiment and to get individual attention from the faculty.
- The students record the experimental values in their observation after completing the relevant calculations; the students submit the same for evaluation.



**Continuous Assessment in the laboratory:**

The students' performance in the laboratory is continuously assessed experiment-wise and online tests.

- Student's performance in each laboratory experiment is evaluated based on the parameters like preparation, execution of experiments, results and viva-voce.
- MCQ type online tests are conducted at the end of each cycle to measure the performance of students related to experiments
- A Model lab exam of 3 hours duration is conducted after the completion all the experiments to assess the students' performance and their readiness for end semester examinations
- The final practical examination is conducted for 3 hour duration at the end of the semester.

**Student's feedback on Teaching Learning and action taken**

The processes for collecting students' feedback to improve the classroom delivery, teaching-learning process and further to address the diverse learners' needs are given below:

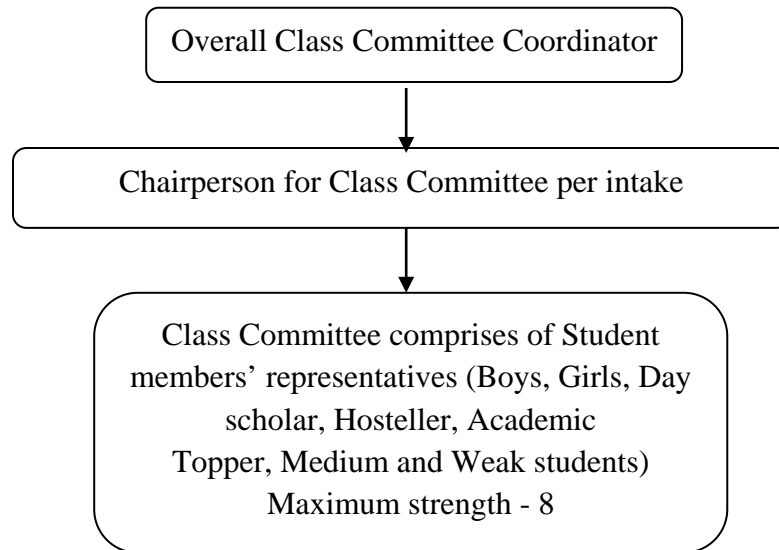
- Class committee feedback:
- Mid-semester feedback
- Feedback at the end of the course
- Informal feedbacks collected by HoD

Class committee meetings are conducted regularly to monitor the teaching-learning evaluation process, ensure syllabus completion, collection of feedbacks, solve students based issues in an easiest way.

Feedbacks on teaching learning process during middle of the semester and at the end of every semester are collected from students and accordingly HoD and Principal discuss on it for the betterment of students. Feedback regarding each and every course is collected from the students at the end of every semester and suitable suggestions by students are taken into



account and the necessary changes/modifications are accommodated by revising the curriculum.



**Figure B.2.2.1f Structure of Class Committee**



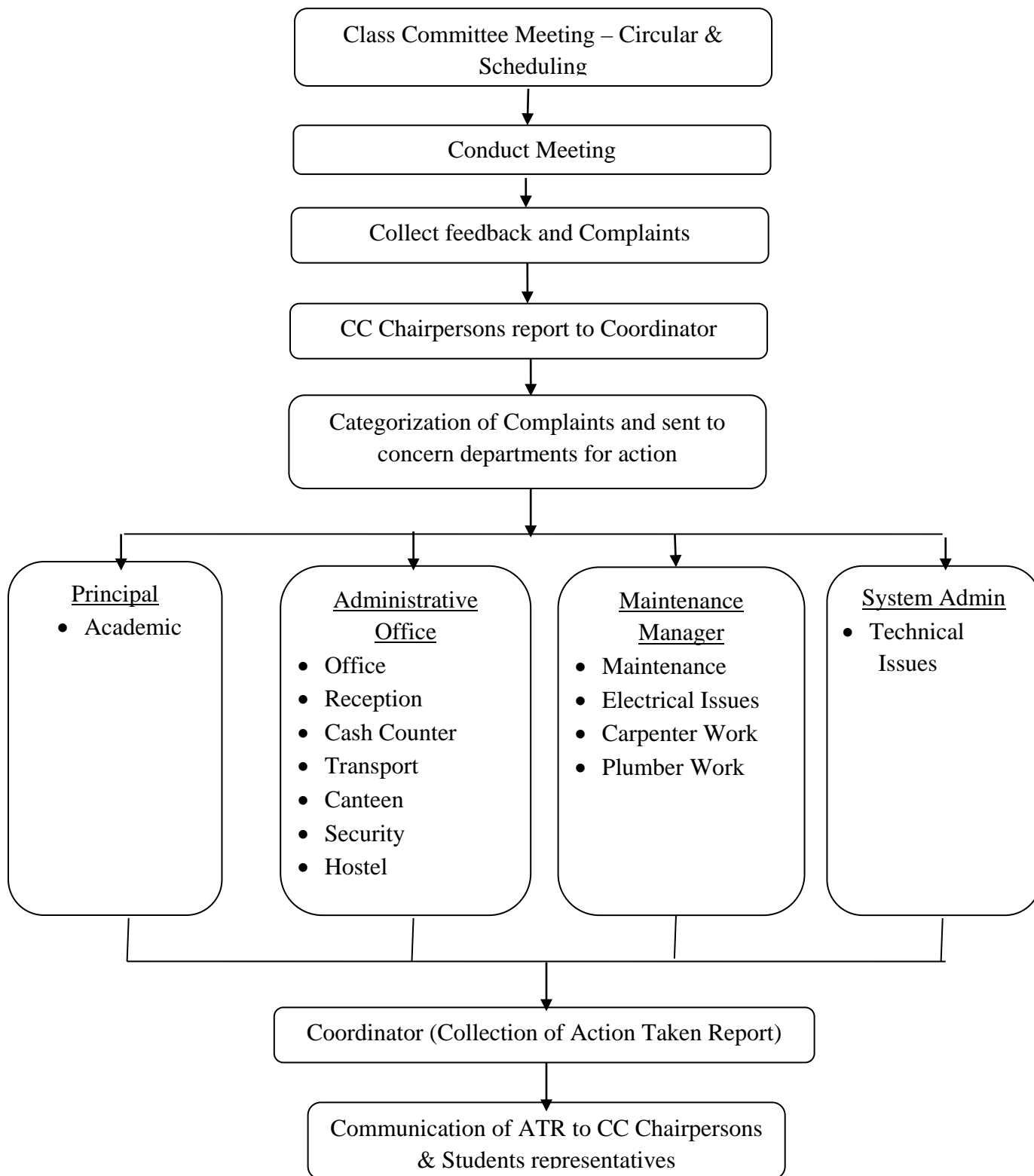


Figure B.2.2.1g Process flow for Class Committee Meeting



### Effectiveness of the Process

The effectiveness of the process is ensured through

- Class Committee Meetings
- Academic Audit

A course committee is formed comprising of the entire faculty handling the course, with the senior most faculty being the course coordinator. The course committee meets before the start of the course and after each Continuous Assessment Test (CAT) to prepare the lesson plan, decides the portions for CAT, assignment patterns and periodically review the attainment of COs.

The class committee meeting comprises of students, all the course handling faculty members and a faculty member from other department as a chairperson. The feedback is obtained from the students on syllabus coverage, content delivery, assessment and evaluation and any other matter related to academics as well as co-curricular and extra-curricular activities.

An Academic Audit is conducted periodically in a semester to audit the course file. The course file consists of lesson plan, course material prepared for that particular course based on the lesson plan, tutorial problems for analytical courses and contents beyond the syllabus, assignments, sample CAT answer papers and question papers.

**Table B.2.2.1f Summary of Academic Initiatives, Implementation and Impact Analysis**

Initiative	Implementation	Impact Analysis
<b>Academic Calendar</b>		
A common calendar, listing out all important dates and details, is prepared by Office of CoE and made available to all faculty and students	<ul style="list-style-type: none"> <li>• All faculty members and students are instructed to adhere to the schedule</li> <li>• Knowing the Academic Year start and end dates,</li> </ul>	<ul style="list-style-type: none"> <li>• Faculty members and students adhere to the schedule of calendar for prioritizing their activities.</li> <li>• Faculty members can deliver</li> </ul>



	examination schedules, holidays, and events happening across the Institute, calendar is useful to plan semester activities.	the course considering examination schedule and public holidays. • Students can plan the summer / winter internships
<b>Teaching and Learning</b>		
Implementation of innovative teaching methodologies	<ul style="list-style-type: none"> <li>• Google Classroom</li> <li>• MOOC / Video Lectures</li> <li>• Case Studies / Assignments</li> <li>• Mobile Learning</li> <li>• NEC Library Portal</li> <li>• Revised Blooms Taxonomy</li> <li>• Hands-on mode delivery</li> <li>• Assignments / Quiz</li> <li>• Student centered approach in which every student is engaged effectively</li> </ul>	<ul style="list-style-type: none"> <li>• Outcome based teaching methodology favours active learning as opposed to passive learning</li> <li>• Innovative practices in the form of quiz, seminars and surprise tests, assignments, analytical problem solving, formative assessments at the end of every topic has the positive impact on the teaching – learning process. y</li> <li>• Students are given opportunities to express their views on academic aspects/activities</li> <li>• Overall personality development of the students which is evident in good placement record</li> </ul>
<b>Collaborative Learning</b>		
Alumni Interaction (Interactive Learning)	<ul style="list-style-type: none"> <li>• Alumni interaction with reference to recent technological developments, supplementary course</li> </ul>	<ul style="list-style-type: none"> <li>• Students become aware of their strengths and weakness by interaction</li> <li>• Established contacts motivate</li> </ul>



	<p>lectures and career guidance</p> <ul style="list-style-type: none"> <li>• Small Group Discussion</li> <li>• Project Based Learning</li> <li>• Field Visits</li> <li>• Laboratory Based Learning</li> </ul>	<p>students for higher education, placement and preparation</p> <ul style="list-style-type: none"> <li>• Acquire knowledge on industrial practices and requirements of industry</li> </ul>
<p>One - Credit Courses (The current and relevant topics pertaining to the advancements in the core engineering are offered as one credit course)</p>	<ul style="list-style-type: none"> <li>• Experts from industry offer one credit courses</li> <li>• Students can choose one course in each semester</li> </ul>	<ul style="list-style-type: none"> <li>• Interactions with industry personnel make students to understand the industrial practices in specialized topics and applications.</li> <li>• These courses help in placements particularly in core areas</li> </ul>
<p>Seminars / Workshops (Interactive Learning) Organized by other Institutes / Industries</p>	<ul style="list-style-type: none"> <li>• Academic coordinators and proctors motivate their students to participate and present papers/ posters in seminars and attend workshops</li> <li>• Information on Seminars/ Workshops conducted in various other colleges/ universities/ institutes are circulated among the students</li> </ul>	<ul style="list-style-type: none"> <li>• Seminars / Workshops outside the campus motivate students to establish rapport with few peers from other institutes and enhance awareness and competitiveness</li> <li>• Provides an opportunity for exchanging of information, findings and ideas among participants. Seminars are useful to identify the emerging areas</li> </ul>
<p>Seminar by Academic experts</p>	<ul style="list-style-type: none"> <li>• Course handling faculties encourage students to add value to their technical knowledge by organizing guest lectures.</li> </ul>	<ul style="list-style-type: none"> <li>• Student gains additional knowledge to stabilize their area of interests.</li> </ul>



Demonstration of ideas through Presentation	Students are made to do presentations in their familiar areas.	<ul style="list-style-type: none"> <li>• Gains knowledge and skills by expressing their thoughts.</li> </ul>
Laboratory based Learning	In addition to course content laboratory experiments, the students are given study experiments, which are content beyond syllabus to the students for their technical improvement.	<ul style="list-style-type: none"> <li>• Acquires confidence in experiencing the latest requirements and advancements in the laboratories</li> </ul>
Project Based Learning	One course per semester is given to the students as Project-Based Learning (PBL) to inculcate the habit of learning by doing projects.	<ul style="list-style-type: none"> <li>• Students beyond the laboratory experience, they gain additional practical experiences and expertise in making working prototypes.</li> <li>• Encourage the students in applying and benefitting by the funding proposals with TNSSTC.</li> </ul>
Learning through Library	<ul style="list-style-type: none"> <li>• Library resources are used in different ways for benefitting students.</li> </ul>	<ul style="list-style-type: none"> <li>• The students are benefitted by permitting them to access the library books, journals and magazines to improve their literature skills.</li> </ul>
Identification of Fast learners	<ul style="list-style-type: none"> <li>• Faculty members categorize the bright and fast learners among the class strength to improve their skills.</li> </ul>	<ul style="list-style-type: none"> <li>• Gain motivation for attending internships and workshops to improve their employability skills</li> <li>• Acquire leadership skills</li> <li>• Succeed in carrying out</li> </ul>





		<p>innovative projects</p> <ul style="list-style-type: none"> <li>• Take Add courses to enable them in attending internships in final years</li> </ul>
Identification of Slow learners	<ul style="list-style-type: none"> <li>• Faculty members identify the slow learners among the class strength to improve their academics.</li> </ul>	<ul style="list-style-type: none"> <li>• Able to explain the concepts, gain confidence in studies and overcome hurdles like poor communication and academic background</li> <li>• Improve his performance in tests</li> </ul>
Internship	<ul style="list-style-type: none"> <li>• Faculty incharges and members arrange the Internship programs to make students work in industry environments.</li> </ul>	<ul style="list-style-type: none"> <li>• Students acquire the experience of using modern and effective tools</li> </ul>
Industrial visit	<ul style="list-style-type: none"> <li>• Faculty incharges and members arrange the Industrial visits to have a view about the industry environments.</li> </ul>	<ul style="list-style-type: none"> <li>• Students experience the industry practices and current scenario.</li> </ul>
Industry sponsored laboratory	<p>Faculty members in association with industries make arrangements for industry sponsored laboratories to create industrial environment within the campus.</p>	<p>Students get exposure to know industrial practices and understand the concepts by seeing samples of real components/cut section models/ use latest software packages and technologies in core industries.</p>



Signing MoUs with industries	<ul style="list-style-type: none"> <li>Faculty members regularly establish strong relationship between college and industries by means of agreements and MoUs.</li> </ul>	Students get opportunity to undergo internships, Industrial visit, do projects and placements.
Engaging with professional societies and leading universities	<ul style="list-style-type: none"> <li>Enhancing students learning by engaging them with professional societies like SAE and leading universities by project internship.</li> </ul>	Students develop contacts with industry persons, know the ongoing practices of industry, create scope for taking industry projects and gain knowledge through seminars/ interactions/ workshops / product development, etc.

### 2.2.2 Quality of end semester examination, internal semester question papers, assignments and evaluation (15)

#### Self Assessment (15)

*(Mention the initiatives, implementation details and analysis of learning levels related to quality of semester tests, assignments and evaluation)*

#### Quality of internal semester question papers:

The structure of the internal assessment tests consist of

- Continuous Assessment Tests (CAT) - 2
- On-line tests - 2
- Assignments/ tutorial/ quizzes - 2

The process for preparing question paper for internal assessment tests is described below. Two internal assessment tests are after completing 8<sup>th</sup> week and 16<sup>th</sup> week respectively. Each test covers half of the syllabus. The tests are conducted for a maximum of 50 marks. (No minimum marks criteria from the university). The duration of the test is one and half hour and question paper is set to make the student to learn time management.

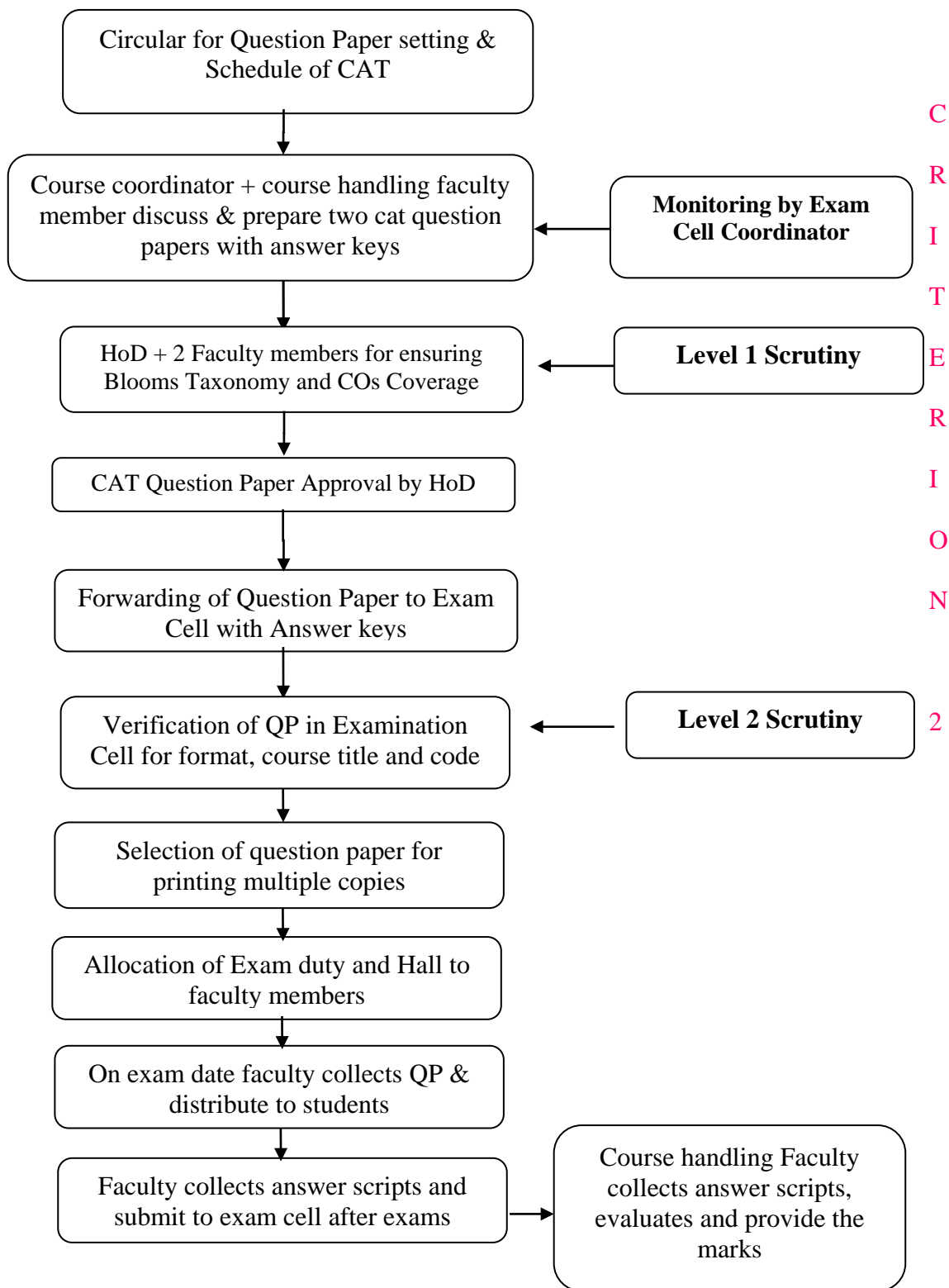


The faculty members prepare questions according to

- The curriculum and assessment frameworks for different subjects.
- Course Outcomes (CO) in the syllabus.
- Different levels of Blooms taxonomy

The department HoD along with two faculty members check the quality of the question paper, RBT levels and COs coverage and compliance. The course coordinator will submit the Question Paper to HoDs for approval. The HoD will assess the quality of the question papers in terms of syllabus coverage, application of Blooms taxonomy and relevance to COs. To ensure confidentiality and security the department wise examination coordinators are nominated. They will collect two sets of question paper with answer key and submit the same to examination cell in a sealed cover. Course Coordinators Meetings and Internal audits are carried out to identify areas for improvement. Audit teams consisting of senior faculty members verify the quality of question papers and the quality of assessment (answer booklet) after every Continuous Assessment Test (CAT).





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Figure B.2.2.2a Internal Test/ Continuous Assessment Test Question Paper Process



**Process to ensure questions from outcomes/ learning levels perspective:**

- While setting the Question papers, faculty members ensure the Course outcomes coverage and knowledge levels in the questions with relevance to the course outcomes learning levels.
- Scrutiny team checks the quality of the Question paper with respect to the coverage of COs and blooms taxonomy levels.
- Academic Audit committees also check the quality of the Question papers.
- Based on the marks scored by the students, PO/CO attainment level is calculated to understand the learning level of the student.
- After this process, a review is conducted by HoD to find the level of attainment of Course Outcomes and Program Outcomes.
- If the attainment level is not satisfactory, then the subject handling faculty member is advised to handle separate classes for slow learners.

**Evidence of COs coverage in Continuous Assessment Test (CAT)**

- The evidence of Course Outcomes coverage in the Continuous Assessment Test question papers is ensured during the Question Paper scrutiny process by HoD with 2 faculty members. Further the COs coverage is also verified during the Academic Audit which is scheduled once in a semester. Sample Question paper is shown below to exhibit the COs coverage.





	induction motor only when a. Brushes are shifted to neutral plane b. Short-circuiting is disconnected c. Commutator segments are short-circuited d. Stator winding is reversed				
<b>Part – B (Answer All the Questions) -5 X 2 = 10 Marks</b>		Marks	BTL	CO	HOT
B1	Conclude about the following statement: can an induction motor runs as an induction generator.	2	K3	3	Y
B2	State the necessity of starters used in three phase induction motor.	2	K2	4	N
B3	Define V/f ratio of speed control.	2	K4	4	N
B4	Single phase induction motor has two windings on its stator. Justify the response.	2	K4	5	Y
B5	Formulate the working principle of reluctance motor.	2	K2	5	N
<b>Part – C (Answer the Question)-1 X 7 = 7 Marks</b>		Marks	BTL		
C1	The Single phase induction motor is not self-starting. Say true or false and also examine the double revolving field theory operation of single phase induction motor.	7	K3	5	Y
<b>Part – D (Answer Any Two Questions)-2 X 14 = 28 Marks</b>		Marks	BTL		
D1	A 15kW, 400V, 50Hz, three phase star connected induction motor gave the following test results: No load test: 400V, 9A, 1310W Blocked rotor test: 200V, 50A, 7100W Stator and rotor ohmic losses at standstill are assumed equal. Draw the induction motor circle diagram and calculate (i) Line current (ii) Power factor (iii) Slip (iv) Torque and efficiency at full load.	14	K5	3	Y
D2	i Demonstrate the construction and working of any one of the starter used for three phase squirrel cage induction motor with neat circuit diagram and torque ratios.	7	K3	4	N
	ii A 3phase 6poles, 50Hz induction motor takes 60A at full load speed of 940 rpm develops a torque of 150N/m, the starting current at rated voltage is 300A. What is starting torque? If a star to delta starter is used determine the starting torque and starting current.	7	K5	4	Y
D3	i With neat sketch elucidate in detail about the slip power recovery scheme of three phase induction motor.	8	K4	4	N
	ii Exhibit the construction and operation of Universal motor with necessary circuit connection diagram and speed torque characteristics curve.	6	K2	5	N
D4	i Explicate with suitable diagrams the construction and working principle of split-phase induction motor.	7	K2	5	N
	ii Illustrate the operation of shaded pole induction motor with neat diagram and speed torque characteristics curve.	7	K2	5	N

Prepared by  
17/12

Approved by

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Figure B.2.2.2b Sample Question Paper of Continuous Assessment Test

**Quality of assignments and relevance to COs:**

- Assignments are given to the students to achieve the outcomes of the courses to promote the self-learning.
- Every semester, two assignments (E-assignment and Written assignment) are given to the students.
- The assignments are relevant to the curriculum and relevant to the Course Outcomes.
- In Assignment - 1, CO-1, CO-2 and CO3 are covered and in case of other assignment, CO4 and CO5 are covered.
- The assignment marks are evaluated and it forms a part of the internal mark component.

**Quality of online test and relevance to COs:**

- Every semester, three online tests (technical quiz) are conducted to the students. The online tests are relevant to the curriculum and relevant to the CO.
- The internal marks are calculated based on evaluation done through the software “Moodle”, which in turn questions will be uploaded and corrections will also be carried by the software itself.





### Quality of end semester examination papers:

The process followed to ensure the quality of end semester question paper is described below.

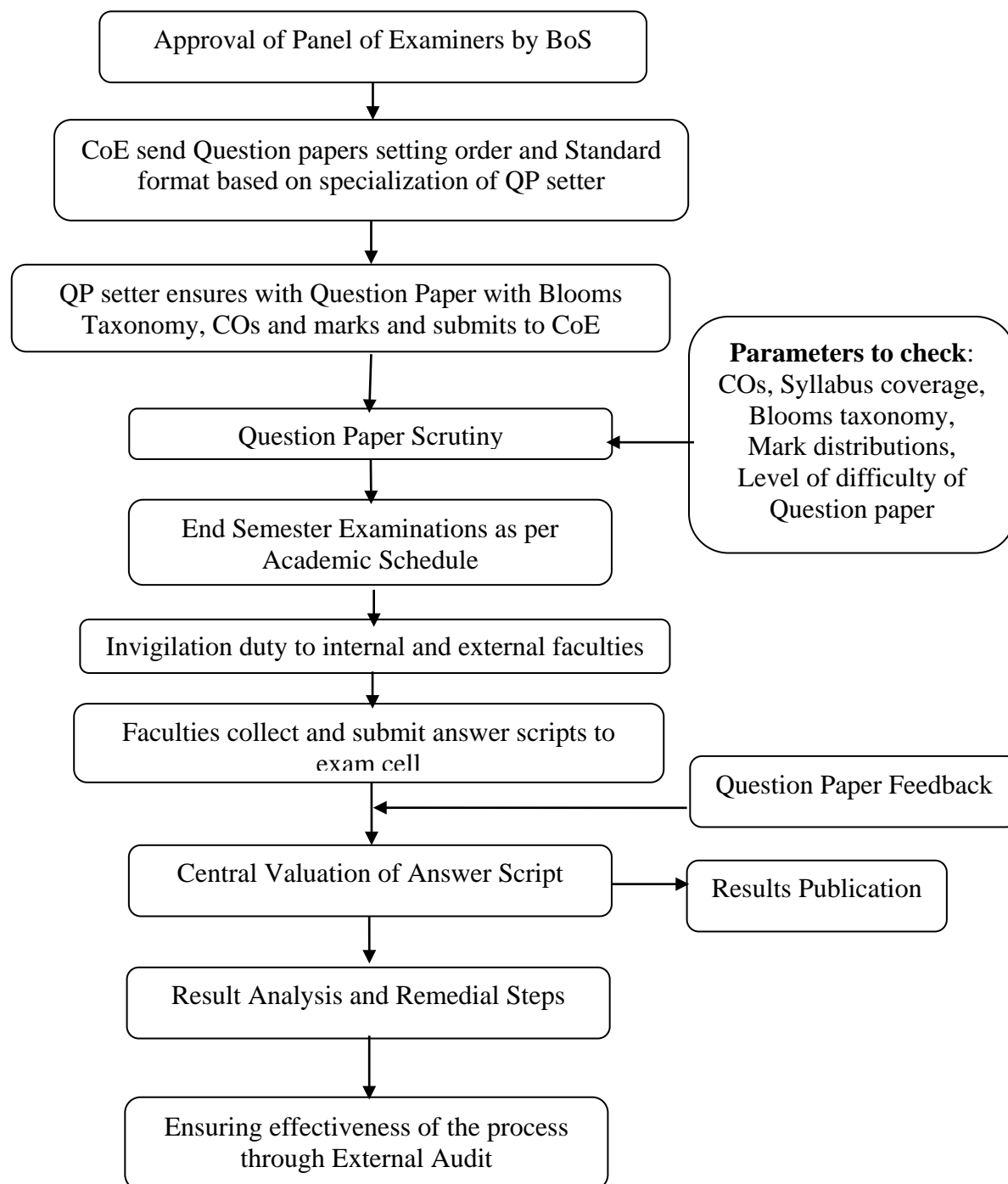


Figure B.2.2.2c Process to Ensure the Quality of End Semester Examinations



R17 - T1

Register No. 20EE002

Question Paper Code : 1742219

**NANDHA ENGINEERING COLLEGE (Autonomous), ERODE - 638 052**  
**B.E/B.Tech DEGREE END SEMESTER EXAMINATIONS - APRIL, 2022**

Knowledge Level	KL	Course Outcome	CO	Evaluating	KS
Remembering	K1	Applying	K3		
Understanding	K2	Analysing	K4	Creating	K6

Semester IV

**17EE07-ELECTRICAL MACHINES - II**

**Course Outcomes:**

- CO1:** The students will be able to analyze the performance of synchronous generator and compute EMF equation and voltage regulation by using different methods.
- CO2:** The students will be able to elucidate the characteristics of synchronous motor and analyze its performance.
- CO3:** The students will be able to analyze the characteristics, equivalent circuit and circuit diagram of three phase induction motor and generator.
- CO4:** The students will be able to apply suitable starting and speed control methods to enhance the performance of three phase induction motors.
- CO5:** The students will be able to apply the double field revolving theory to develop the equivalent circuit of single phase induction motor and examine the performance of special machines.

Max. Marks: 100

Time: 3 Hours

**PART - A (10 X 1 = 10 MARKS)**

**ANSWER ALL QUESTIONS**

Q. No	Questions	Marks	KL	CO
A1.	When the load on an alternator is varied, its terminal voltage also changes due to _____ A) Armature Resistance                      C) Armature Reaction B) Leakage Reactance                      D) Leakage Reaction	(1)	2	1
A2.	Alternator on infinite bus bar has constant _____ A) power factor                                      C) frequency B) power factor and terminal voltage      D) terminal voltage and frequency	(1)	2	1
A3.	The V-curves of synchronous motor is plotted between _____ A) $I_a$ Vs $I_f$ with constant shaft load      C) power factor vs $I_f$ B) $I_f$ Vs $I_a$ with constant shaft load      D) power factor vs $I_a$	(1)	1	2
A4.	A 3 phase synchronous motor is working at normal excitation, then the flux deficient in circuit is _____ A) given by armature winding mmf      C) supplied to armature winding mmf B) given by field winding mmf          D) supplied to field winding mmf	(1)	1	2



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- A5. An induction motor when started on load, it does not accelerate up to full speed but runs at 1/7th of the rated speed. The motor is said to be \_\_\_\_\_.
- A) Locking C) Crawling (1) 2 3  
B) Plumming D) Cogging
- A6. A three phase, 50 Hz induction motor has a full load speed of 1440 rpm. The number of poles of this motor is \_\_\_\_\_.
- A) 4 C) 6 (1) 2 3  
B) 5 D) 2
- A7. It is advisable to avoid line starting of induction motor and use starter because
- A) It will run in reverse direction C) Motor takes five to seven times its full load current (1) 1 4  
B) It will pick up very high speed and may go out of step D) Starting torque is very high
- A8. A three phase, 50 Hz induction motor has a full load speed of 1440 rpm. Speed of the stator field revolving rotor structure is \_\_\_\_\_.
- A) 157 rad/s C) 6.28 rad/s (1) 2 4  
B) 150 rad/s D) 145 rad/s
- A9. In repulsion motor direction of rotation of motor \_\_\_\_\_.
- A) Is opposite to that of brush shift C) Is independent of brush shift (1) 1 5  
B) Is the same as that of brush shift D) Based on the load
- A10. The speed of a universal motor is generally reduced by using \_\_\_\_\_.
- A) Gear trains C) V-belts (1) 1 5  
B) Brakes D) Chains

**PART - B (10 X 2 = 20 MARKS)**

**ANSWER ALL QUESTIONS**

- B1. Classify the synchronous machines based on their rotor structure. (2) 2 1
- B2. Mention the conditions required for the parallel operation of alternators. (2) 2 1
- B3. What could be the reasons if a 3-phase synchronous motor fails to start? (2) 2 2
- B4. List any four applications of synchronous motors. (2) 2 2
- B5. Enumerate the types of three phase induction motors. (2) 2 3
- B6. Mention the reasons why an Induction motor is called as rotating transformer. (2) 2 3
- B7. Mention different types of speed control of slip ring induction motor. (2) 2 4
- B8. Differentiate DOL and star-delta starters. (2) 2 4
- B9. Name the two windings of a single-phase induction motor. (2) 2 5
- B10. Differentiate between "capacitor start" & "Capacitor start capacitor run" single phase induction motor. (2) 2 5

PART - C (1 X 14 = 14 MARKS)				
ANSWER ALL QUESTIONS				
C1.	A 3-Phase star connected 1000KVA, 11000V alternator has rated current of 52.5 A. The ac resistance of the winding per phase is 0.45 ohms. The test results are given below: OC Test: Field Current = 12.5 A, Voltage between lines = 422V SC Test: Field Current = 12.5 A, Line Current = 32.5A Determine the full load voltage regulation of the alternator (i) 0.8 PF lagging and (ii) 0.8PF leading.	(14)	4	1
PART - D (4 X 14 = 56 MARKS)				
ANSWER ANY FOUR QUESTIONS				
D1.	Describe the no-load test and blocked rotor test for obtaining the equivalent circuit parameters of a single phase induction motor.	(14)	3	5
D2.	(i) Illustrate the operation of single phase induction motor with double field revolving theory. (ii) Discuss the construction, operation and characteristics of switched reluctance motor.	(7)	2	5
D3.	(i) Explain in detail the V curve and inverted V curve of a synchronous motor. (ii) Explain the method of starting of synchronous motor.	(7)	2	2
D4.	(i) Explain briefly the features and principle of operation of three-phase synchronous motor. (ii) With a phasor diagram illustrate how synchronous motor can be used as a synchronous condenser?	(7)	2	2
D5.	(i) A 3 phase induction motor has a starting torque of 100% and a maximum torque of 200% of the full load torque. Evaluate: (1) Slip at which maximum torque occurs, (2) Full load slip, (3) Rotor current at starting in per unit of full-load rotor current. (ii) An induction motor has an efficiency of 0.9 when the shaft load is 45 kW. At this load, stator ohmic loss and rotor ohmic loss each is equal to the iron loss. The mechanical loss is one-third of the no-load losses. Neglect ohmic losses at no-load. Calculate the slip.	(7)	3	3
D6.	(i) Sketch and Explain the torque slip characteristics of 3 phase cage and slip-ring induction motors. Show the stable region in the graph. (ii) Describe the construction and working principle of a 3-phase induction motor.	(7)	3	3
D7.	With neat diagrams explain the working of any two types of starters used for squirrel cage type 3 phase induction motor.	(14)	3	4
D8.	(i) Illustrate the rotor rheostat control of 3 phase slip ring induction motor. (ii) With a neat diagram explain V/F control of an induction motor.	(7)	2	4

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Figure B.2.2d Sample Question Paper of End Semester Examination



**Table B.2.2.1a Summary of Initiatives, Implementation and Impact Analysis related to examinations**

Initiative	Implementation	Impact Analysis
Question paper patterns	<ul style="list-style-type: none"> <li>The internal assessment and end semester question papers are prepared based on the types of pattern of the question paper depending on the types of the course.</li> </ul>	<ul style="list-style-type: none"> <li>Students could answer the exams easily depending on the level of complexity of the courses as it decides the pattern of the Question paper.</li> <li>Develop ability to extract and interpret exact meaning of questions and write clear answers</li> </ul>
e-assignments	<ul style="list-style-type: none"> <li>One of the two assignments could be submitted as e-assignment by the students.</li> </ul>	<ul style="list-style-type: none"> <li>Gain the practice of exploring more details beyond the text book</li> <li>Improved communication skills and emailing habits</li> </ul>
Online tests	<ul style="list-style-type: none"> <li>Students are made to attend On-line test which is of MCQ type.</li> </ul>	<ul style="list-style-type: none"> <li>Flexible to take exams anywhere and anytime.</li> <li>Helps the students to get feedback regarding their performance very quickly.</li> <li>Acquire knowledge in using the digital tools</li> <li>Students involvement has been improved</li> </ul>
Online quiz	<ul style="list-style-type: none"> <li>Students do attend On-line quiz</li> </ul>	<ul style="list-style-type: none"> <li>Flexible timing of exam is the advantage for Students</li> <li>Effective engagement of students</li> </ul>



### 2.2.3 Quality of student projects

(20)

#### Self Assessment (20)

*(Quality of the project is measured in terms of consideration to factors including, but not limited to, environment, safety, ethics, cost, type (application, product, research, review etc.) and standards. Processes related to project identification, allotment, continuous monitoring, evaluation including demonstration of working prototypes and enhancing the relevance of projects. Mention Implementation details including details of POs and PSOs addressed through the projects with justification)*

#### **Identification of projects, allocation methodology and Process for monitoring and evaluation**

The step by step process of identification of project titles, project area, formation of project batch, allocation of guide, monitoring and evaluations of projects is explained below.

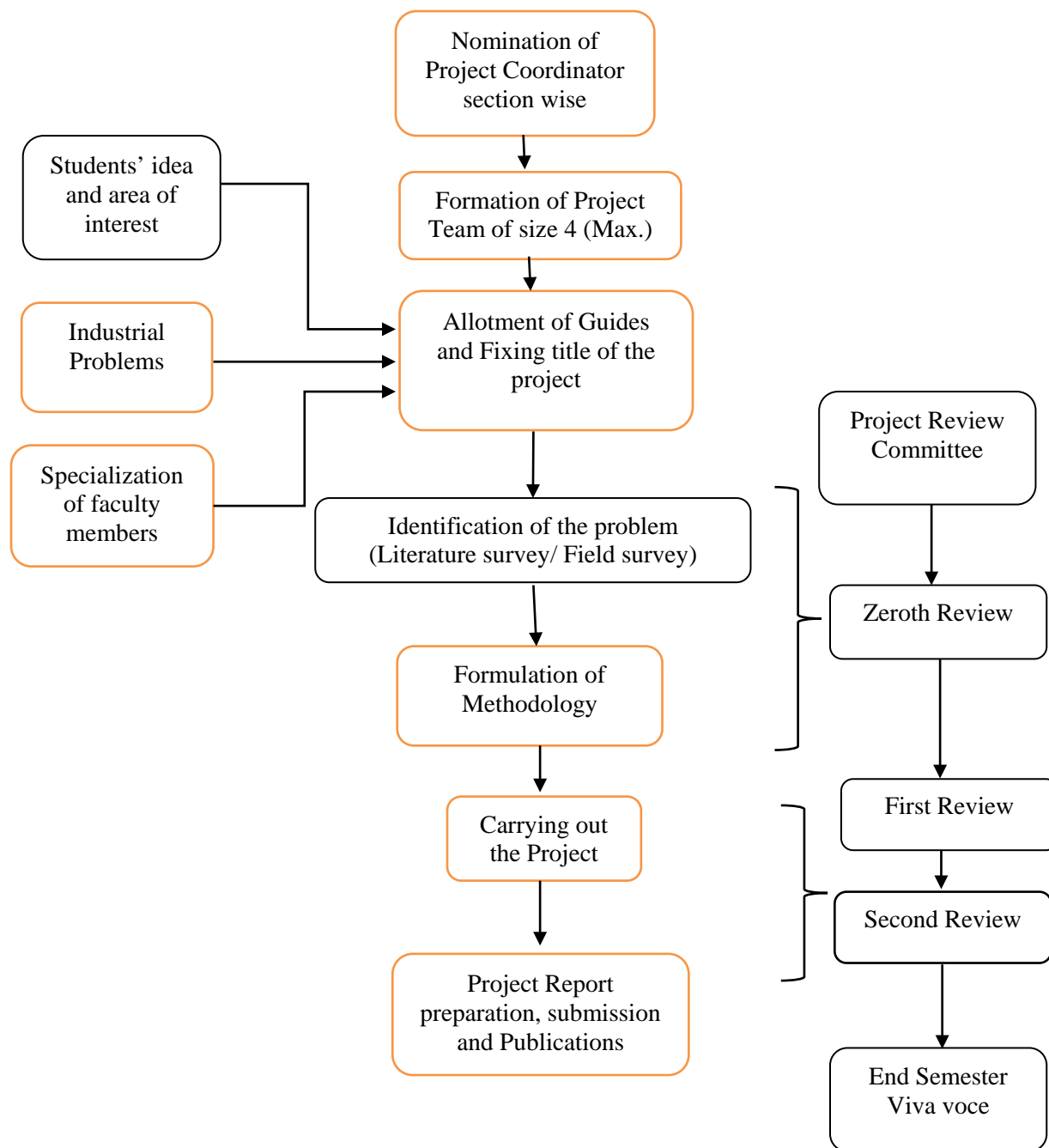
- HoD nominates the project coordinator for each section of the final year. The final year students do projects with a team size from single student to a group of students not exceeding four per group. The faculty members are assigned as project guides based on students' project area, specialization of faculty members and industrial problems. Students confirm their project titles in consultation with the guides.
- The HoD constitutes a project committee which consists of senior faculty members and project coordinator as members to evaluate the progress of the projects and performance of the students as per the guidelines specified in the regulations.
- Project coordinator and project guides facilitate students to identify the problem(s) by literature review/ industrial field survey, formulate methodology to be adopted and time line to complete the project. The above points are ensured during evaluation in zeroth review.
- The continuous monitoring and evaluation are carried out with another two periodic reviews. The end semester evaluation includes demonstration of working prototypes/computational models followed by project viva-voce.
- Students done quality projects are encouraged to present/publish their work in the National/International conferences and journals.



- The continuous assessment marks for the project is awarded based on the performance of students in the review and demonstration of the working prototypes.
- The end semester assessment is done in the presence of internal examiner and external examiner who is preferably from the industry or academia having rich experience.

The Process of projects allocation methodology, monitoring and evaluation are shown in Fig. B.2.2.3a.





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**Fig.B.2.2.3a Process of projects allocation methodology, monitoring and evaluation Process for monitoring and assessing individual and team performance**

The process of monitoring starts with the engagement of students by the project coordinators as per the time table. The project batch meets their guides regularly and updates their discussion/progress to the project coordinator during weekly period. Then three reviews are





conducted to assess the individual and team performance of the students. During assessment students need to make presentation about their progress and rubrics are used to assess individual and team performance. The various attributes to be evaluated in each review is presented in TableB.2.2.3a.

**Table B.2.2.3a Attributes to be evaluated in each review**

<b>Project Work</b>	
<b>Zeroth review</b>	Title, methodology, progress of literature review/field survey and timeline for indication various stages of project. Fine tuning the title of the project, methodology based on the inputs of project committee.
<b>First review</b>	Ensuring the completion of literature review, statement of problem, readiness status of experimental setup/availability of facilities at industry and proposed tools/technology to be used in the project.
<b>Second review</b>	Completion status of the project, Demonstration of project, Results, draft copy of project report, action plan for the publications

B.E., Electrical and Electronics Engineering programme has project work-1 and project work-2 in the curriculum at 7<sup>th</sup> and 8<sup>th</sup> semesters so as to provide experience to the students on doing projects. The evaluation and mark distribution for different stages phases of projects are present below.



Table B.2.2.3b Project Work I Evaluation Pattern

Project Work I (Marks: 100)					
Project work I will be evaluated by continuous assessment and end semester assessment					
Continuous Assessment - 50 Marks				End Semester Assessment - 50 Marks	
	Zeroth Review	Review 1	Review 2	Internal Examiner	20
Guide	5	10	10	External Examiner	20
Committee	5	10	10	Report	10
Total	10	20	20	Total	50

Table B.2.2.3c Project Work II Evaluation Pattern

Project Work - II (Marks: 100)					
Project work II will be evaluated by continuous assessment and end semester assessment					
Continuous Assessment - 50 Marks				End Semester Assessment - 50 Marks	
	Guide	Committee	Total	Internal Examiner	40
0 <sup>th</sup> Review	5	5	10	External Examiner	40
1 <sup>st</sup> Review	10	10	20	Report	20
2 <sup>nd</sup> Review	10	10	20	Total	100
Total			50		



Table B.2.2.3d Rubrics for Project Work Evaluation

<b>Dimensions → Criteria ↓</b>	<b>Excellent (8 - 10 Marks)</b>	<b>Good (5 - 7 Marks)</b>	<b>Not Satisfactory (1 - 4 Marks)</b>
Idea and Content	Good innovative idea  Content is well-organized	Idea is fair  Major part of the content is well organized	Existing idea  Content is not well-organized
Literature Review	Presented 8- 10 relevant literature	Presented 4- 6 relevant literature	Presented less than 4 literature
Results & Conclusions, Discussion	Completed with good results and fruitful conclusion made  Well discussed	Completed with good results and conclusion part need to improve  Majority of the results are well discussed	Incomplete product output  No proper discussion
Report	All chapters are written well as per the Institute UG thesis format	Some chapters are written Well as per the Institute UG thesis format	Not written well as per the UG thesis format
Presentation	Good content delivery and good communication	Communication is good. Content delivery need to improve	Need to improve communication and content delivery

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Table B.2.2.3e Project Work - II by the students

17EED02- PROJECT WORK II ACADEMIC YEAR 2021-2022											
BATCH NO.	REGISTER NUMBER	STUDENT NAME	PROJECT TITLE	GUIDE NAME	TYPE OF PROJECT	OBJECTIVES	FACTORS CONSIDERED				REMARKS
							ENVIRONMENT	SAFETY	ETHICS	COST	
1	18EE002	ABISHEK P	Smart solar inverter for farm shed	Dr.P.Jamuna	Hardware	The objective of the proposed system to develop a smart solar farm shed which reduces manpower ,energy and money	✓	✓	✓	8150	Published in International Journal for Science and Advance Research in Technology
	18EE005	BALAKUMARAN S									
	18EE030	MANIKANDAN R									
	18EE055	SRINITHI R									
2	18EE004	ARUNA E	Energy Efficient Smart Metering System Using Iot And GSM	Mr.B.Ramraj	Hardware	The main objective of this project is Eliminating manual meter reading, Providing real-time data useful for balancing electric loads and reducing power outages(blackouts)	✓	✓	✓	9100	Published in International Journal for Science and Advance Research in Technology
	18EE014	DIVYA A									
	18EEL03	DEEPANKUMAR S									
	18EEL18	NEELAKANDA PILLAI P I									
3	18EE006	BHARANIDHARAN M	Smart Wheel Chair Using Iot For Physically Challenged People	Mrs.C.Pratheeba	Hardware	This project discuss the development of a novel architecture of an intelligent wheelchair working on wireless head movement control	✓	✓	✓	9700	Published in International Journal for Science and Advance Research in Technology
	18EE021	HARISH VISHNU									
	18EE026	KAVIN KUMAR R									
	18EE057	VASIM ABBAS M									



4	18EE008	DEEPAK ARVINTH A	Radio Frequency Based Location Data Transceiving System In Remote Areas Without Mobile Network	Mr.V.Arunk umar	Hardware	To develop a novel Wireless Positioning System (GPS) device that can access and display parameters like time, longitude and latitude, and altitude in real time without the need for a passive internet connection used in emergency situation.	✓	✓	✓	6000	Published in International Journal for Science and Advance Research in Technology
	18EE009	DHANABAL S									
	18EE019	GOKUL C									
	18EE020	GOKULRAJA S									
5	18EE011	DHIVYA G	PIC Controller Based Load Response For Wind And Solar Integration To Improve Power System Reliability	Mr.T.Jayaku mar	Hardware	Major contribution of our proposed work is to increase the power efficiency, Renewable energy interfacing and alternative option charger with EB.	✓	✓	✓	6500	Published in International Journal for Science and Advance Research in Technology
	18EE016	GOBIKA M									
	18EE023	KALAIKUMA R A									
	18EEL13	JOTHISHANK ARRAJ M									
6.	18EE012	DHIYANESH T	Bluetooth Car Control For Physical Challenged Person And Accident prevention USING ARDUINO	Mr.T.Jayaku mar	Hardware	To design the bluetooth car by using Arduino(Atmega32 8). It is controlled by a smartphone application. To develop a user- friendly interface for the user who access the car.	✓	✓	✓	7800	Published in International Journal for Science and Advance Research in Technology
	18EE053	SNEKA S									
	18EEL11	HARINI M									
	18EEL15	KAVIN L									

7	18EE013	DINESH KUMAR S	Smart Travelers App Using Flutter	Dr.G.Ramani	Application	To develop the smart travelers app and to create this app using flutter and dart programming languages.	✓	✓	✓	3000	Published in International Journal for Science and Advance Research in Technology
	18EE015	DHIVYARANI R									
	18EE042	PREMNATH S									
	18EE033	MATHIVANA N D									
8	18EE018	GOKUL B	Design Of PV Based DVR For Power Quality Improvement Using Iot	Mr.S.Elango	Hardware	The objective of this project is to determine the distance of cable fault from the base station in unit distance using pic16f877a board.	✓	✓	✓	9500	Published in International Journal for Science and Advance Research in Technology
	18EE022	JAYARAM S									
	18EEL05	GANESH M									
	18EEL07	GOKUL S									
9	18EE046	SAMINATHA N M	Zero Voltage Switching Single Phase Full Bridge Inverter With Active Power Decoupling	Dr.G.Ramani	Hardware	The objective of the project is to design correction equipment which can monitor the power factor of the mine electrical framework and enhance the power factor to a desired value.	✓	✓	✓	5700	Published in International Journal for Science and Advance Research in Technology
	18EEL06	GOKUL M									
	18EEL23	SARWESWARAN K									



10	18EEL04	DHINESH KUMAR S	IOT Enabled Floatable Boat For Pond Cleaning Robot With Water Body Quality Monitoring And Chemical Neutralization System	Mr.V.Ravich andran	Hardware	The main objective of the project is to reduce the man power, time consumption for monitor the river with automated operation of river monitoring	✓	✓	✓	9800	Published in International Journal for Science and Advance Research in Technology
	18EEL10	HARINI K									
	18EEL20	PRAVEEN KUMAR A									
	18EEL25	VINOTHRAJ E									
11	18EE003	ARUL PRAKASH S	Development of advanced and secured ATM machine surveillance system	Mrs.R.Vijaya lakshmi	Hardware	To provide reliable security to ATM machines and to reduce the manual power for the security of the machine.	✓	✓	✓	7200	Published in International Journal for Science and Advance Research in Technology
	18EE045	SAIRAM T									
	18EE047	SAMUEL J									
	18EE048	SARUN D									
12	18EE007	CHANDRAPR AKASH R	IoT based smart irrigation system for barren land	Mr.Karthikpr abu	Hardware	The main aim of this paper is to reduce the human intervention for farmers and use solar energy for irrigation purpose. The entire system controlled by the PIC microcontroller.	✓	✓	✓	8400	Published in International Journal for Science and Advance Research in Technology
	18EE038	NAVIN.VP									
	18EE056	SUJITH P									
	18EE010	DHEENADHA YALAN M	Design and Analysis of	Dr.P.Jamuna	Hardware	In this project, a new RBS based on	✓	✓	✓	7100	Published in International

13	18EE017	GOKUL A K	Regenerative Braking in Electric vehicles using ANN Algorithm			the utilization of HESS is proposed for EVs driven by BLDC motor.					Journal for Science and Advance Research in Technology
	18EE035	MOHANASUN DAR L									
	18EE054	SOWNTHARRAJ J									
14	18EE024	KARTHIKEYAN M	Electric vehicle Fast Charging Station and Combined with PV Generation and Energy Storage	Mr.M.Prabu	<b>Industrial Project</b>	To enhance the MMC circuit topology, a dedicated control strategy is developed for the open-circuit liability sensing.	✓	✓	✓	7600	Published in International Journal for Science and Advance Research in Technology
	18EE025	KAVIARASUR									
	18EE036	MOHANKUMAR M									
	18EE044	SABARINATH A									
15	18EE027	MADHUPRANESH S P	Smart Blind Stick for Visually Impaired Person	Mr.P.Krishna gandhi	Product Development	To develop an innovative blind stick that allows visually challenged people and support as a third eye and provide the voice-based assistance	✓	✓	✓	8100	Published in International Journal for Science and Advance Research in Technology
	18EE041	PRANAV RAKUL R R									
	18EE050	SELVAKAMLESHWAR S									
	18EE051	SELVAKUMAR K									
	18EE029	MANICKAVASAGAM D	Industrial Transformer	Dr.T.Jayakumar	<b>Industrial Project</b>	The main objective of the proposed	✓	✓	✓	8100	Published in International





16	18EE037	MOUSIK SHANKAR S	Monitoring and Controlling using IoT			system is to develop a transformer network wireless monitoring system for monitoring the parameter like voltage ,load current, temperature ,oil level status and humidity of a transformer .					Journal for Science and Advance Research in Technology	
	18EE043	ROOBAN SANKAR M										
	18EEL27	YUVARAJHAN D										
17	18EE031	MANOJ KUMAR S	Human Life Safety System with Electrical Information by using IOT	Mrs.C.Pratheeba	Hardware	The objective of this project is to describe methods for detection of unsafe electrical conditions with respect to the grounding of electrically operated mining equipment.	✓	✓	✓	8600	Published in International Journal for Science and Advance Research in Technology	
	18EE034	MEGALA M										
	18EE039	POOMATHI S										
	18EEL12	INDHUMATHIM										
18	18EE032	MANORANJANIC	Design and Implementation of Leakage Current Detector in Substation Transformer Bushings	Mr.M.Prabu	Hardware	To design the view based virtual instrument for online insulators failure identification.	✓	✓	2	✓	5500	Published in International Journal for Science and Advance Research in Technology
	18EE040	POORNIMA E										
	18EE052	SHARMILAR										
	18EE049	SATHISH K	IOT integrated Air quality and	Mr.S.Prabhakaran	Hardware	The aim of this project is to control the carbon Dioxide emission and	✓	✓	✓	9000	Published in International Journal for Science and	
	18EEL08	HARI HARAN R										



19	18EEL14	KARTHIKEY AN G	monitoring using 2NaoH chemical Bank			monitor the level of the Carbon dioxide.					Advance Research in Technology
	18EEL27	YOGESHWAR AN R									
20	18EEL09	HARIHARAN M	IOT Based Automatic Vehicle Accident Detection and Rescue System	Mr.B.Ramraj	Hardware	This Project is to monitor & send the emergency alert when the accidents which occur on the highways or road side using IOT.	✓	✓	✓	8100	Published in International Journal for Science and Advance Research in Technology
	18EEL21	PRAVEENKU MAR S									
	18EEL22	SADHASIVA M M									
	18EEL24	SHIBIN KOSHY									

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Table B.2.2.3f Mapping with PO and PSO



## Mapping with PO and PSO

S. NO	REG. NO	STUDENT NAME	PROJECT TITLE	SUPERVISOR/ GUIDE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PS01	PS02	PS03	PS04	
1	18EE002	ABISHEK P	Smart solar inverter for farm shed	Dr.P.Jamuna	3	3	3	3	3	3	3	C R I T E R I O N	3	2	3	2	3	3	3	3	3
	18EE005	BALAKUMARAN S																			
	18EE030	MANIKANDAN R																			
	18EE055	SRINITHI R																			
2	18EE004	ARUNA E	Energy Efficient Smart Metering System Using IoT And GSM	Mr.B.Ramraj	3	3	3	3	3	3	3	E R I O N	3	3	2	3	3	2	3	3	3
	18EE014	DIVYA A																			
	18EEL03	DEEPANKUMAR S																			
	18EEL18	NEELAKANDA PILLAI P I																			
3	18EE006	BHARANIDHARAN M	Smart Wheel Chair Using IoT For Physically Challenged People	Ms.C.Pratheeba	3	3	2	3	2	2	2	N E T W O R K	3	3	2	3	2	2	3	3	3
	18EE021	HARISH VISHNU																			
	18EE026	KAVIN KUMAR R																			
	18EE057	VASIM ABBAS M																			
4	18EE008	DEEPAK ARVINTH A	Radio Frequency Based Location Data Transceiving System In Remote Areas Without Mobile Network	Mr.V.Arunkumar	3	2	2	3	2	2	2	2	3	3	3	2	2	2	3	2	2
	18EE009	DHANABAL S																			
	18EE019	GOKUL C																			
	18EE020	GOKULRAJA S																			



5	18EE011	DHIVYA G	PIC controller based load response for wind and Solar integration to improve Power system reliability	Mr.T.Jayakumar	2	3	3	2	3	2	3	3	3	3	3	2	3	2	3	2	3	2	C			
	18EE016	GOBIKA M																								
	18EE023	KALAIKUMAR A																								
	18EEL13	JOTHISHANKAR AJ M																								
6	18EE012	DHIYANESH T	Bluetooth car control for physical Challenged person and accident Prevention using Arduino	Mr.T.Jayakumar	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	R		
	18EE053	SNEKA S																								
	18EEL11	HARINI M																								
	18EEL15	KAVIN L																								
7	18EE013	DINESH KUMAR S	Smart Travelers APP Using Flutter	Dr.G.Ramani	2	2	2	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	R		
	18EE015	DHIVYARANI R																								
	18EE042	PREMNATH S																								
	18EE033	MATHIVANAN D																								
8	18EE018	GOKUL B	Design And Implementation Of Bidirectional Converter For Domestic Purpose Using Modified PWM	Mr.S.Prabaharan	3	3	3	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	R		
	18EE022	JAYARAM S																								
	18EEL05	GANESH M																								
	18EEL07	GOKUL S																								
9	18EE046	SAMINATHAN M	Zero Voltage Switching Single Phase Full Bridge Inverter With Active Power Decoupling	Dr.G.Ramani	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
	18EEL06	GOKUL M																								
	18EEL23	SARWESWARAN K																								



10	18EEL04	DHINESH KUMAR S	IoT Enabled Floatable Boat For Pond Cleaning Robot With Water Body Quality Monitoring And Chemical Neutralization	Mr.M.Prabu	3	3	3	3	2	3	3	3	3	3	3	2	3	2	3	3	C			
	18EEL10	HARINI K																						
	18EEL20	PRAVEEN KUMAR A																						
	18EEL25	VINOTHRAJ E																						
11	18EE003	ARUL PRAKASH S	Development of advanced and Secured ATM machine Surveillance System	Ms.R.Vijayalakshmi	2	2	3	2	3	3	3	2	3	3	3	2	2	2	2	2	2	R		
	18EE045	SAIRAM T																						I
	18EE047	SAMUEL J																						T
	18EE048	SARUN D																						E
12	18EE007	CHANDRAPRAKASH R	IoT Based Smart Irrigation System for Barren Land	Mr.B.Karthikprabu	2	2	2	2	3	3	3	2	3	3	3	2	2	2	2	2	2	R		
	18EE038	NAVIN.VP																						O
	18EE056	SUJITH P																						N
13	18EE010	DHEENADHAYALAN M	Design and Analysis of Regenerative Braking in Electric vehicles using ANN Algorithm	Dr.P.Jamuna	3	3	3	3	3	3	3	2	3	3	3	2	3	2	3	2	3	2		
	18EE017	GOKUL A K																						2
	18EE035	MOHANASUNDAR L																						
	18EE054	SOWNTHARRAJ J																						
14	18EE024	KARTHIKEYAN M	Electric vehicleFast Charging Station and Combined with PV Generation and Energy Storage	Mr.M.Prabu	3	3	2	3	3	3	3	2	3	2	3	2	3	2	3	2	3	2		
	18EE025	KAVIARASU R																						
	18EE036	MOHANKUMAR M																						



	18EE044	SABARINATH A																			
15	18EE027	MADHUPRANESH S P	Smart Foldable Blind Stick for Visually Impaired Person	Mr.P.Krishnagandhi	3	3	3	3	3	3	2	3	2	3	2	3	2	3	2	3	2
	18EE041	PRANAV RAKUL R																			
	18EE050	SELVAKAMLESHWAR S																			
	18EE051	SELVAKUMAR K																			
16	18EE029	MANICKA VASAGAM D	Industrial Transformer Monitoring and Controlling using IoT	Dr.T.Jayakumar	2	2	2	2	2	2	2	2	3	3	3	2	3	2	2	2	2
	18EE037	MOUSIK SHANKAR S																			
	18EE043	ROOBAN SANKAR M																			
	18EEL27	YUVARAJHAN D																			
17	18EE031	MANOJ KUMAR S	Human Life Safety System with Electrical Information by using IOT	Ms.C.Pratheeba	3	2	2	2	2	2	2	2	3	2	2	2	2	3	3	3	2
	18EE034	MEGALA M																			
	18EE039	POOMATHI S																			
	18EEL12	INDHUMATHI M																			
18	18EE032	MANORANJANI C	Design and Implementation of Leakage Current Detector in Substation Transformer	Mr.M.Prabu	3	3	3	2	3	3	2	2	3	2	2	2	3	2	3	2	3
	18EE040	POORNIMA E																			
	18EE052	SHARMILA R																			
19	18EE049	SATHISH K	IOT integrated Air qualityand monitoring using 2NaoH chemical Bank	Mr.S.Prabhakaran	2	2	2	2	3	3	2	2	3	2	3	2	2	2	2	3	3
	18EEL08	HARI HARAN R																			
	18EEL14	KARTHIKEYAN G																			



	18EEL27	YOGESHWARAN R																		
20	18EEL09	HARIHARAN M	IoT Based Automatic Vehicle Accident Detection and Rescue System	Mr.B.Ramraj	2	3	3	2	3	2	2	2	3	3	3	2	2	2	3	3
	18EEL21	PRAVEENKUMAR S																		
	18EEL22	SADHASIVAM M																		
	18EEL24	SHIBIN KOSHY																		

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### 2.2.3 A Working Prototype Model of student projects

In stick, three ultrasonic sensors are positioned in the front, right, and left positions to detect obstacles using the algorithm. It can detect obstacles of various shapes and sizes. After processing the input from these sensors, the type of obstacle is determined and the appropriate pre-recorded audio response or vibration pattern is played to the user using the speaker module or vibration motor. The IR sensor detects the stairs and small obstacles on the ground. The moisture sensor gives a Boolean output after scanning the surface using which the algorithm raises a vibratory alert to the user. It is fixed at the top end of the stick. On detecting a button press from the user the GPS module is polled for the user's coordinates. Then the link is pretended with an appropriate message such as "I am in danger please find me here" and this processed message is sent to the User's caretakers using the GSM module. Also, the algorithm keeps polling the RF receiver mounted on the stick for RF signal, from an RF transmitter mounted on a simple remote controller. This remote controller has a simple push-button along with the RF transmitter. When pressed can be detected by the RF receiver on the blind stick and raises a buzzer alert for a few seconds. It helps to where the user locates now.



**Fig.B.2.2.3b Smart Blind Stick**

**Applications:** Visually Impaired Person





## 2.2.3 B Paper Published by student projects

IJSART - Volume 8 Issue 3 - MARCH 2022

ISSN [ONLINE]: 2395-1052

### Design And Analysis of Regenerative Braking In Electric Vehicles Using Ann Algorithm

P.Jamuna<sup>1</sup>, M.Dheenadhayalan<sup>2</sup>, A.K.Gokul<sup>3</sup>, L.Mohana Soudhar<sup>4</sup>, J.Sowatharraj<sup>5</sup><sup>1</sup>Associate professor, Dept of EEE<sup>2,3,4,5</sup>Depts of EEE<sup>1,2,3,4,5</sup>Nandha Engineering College, Erode, Tamilnada, India.

**Abstract-** The regenerative braking plays a vital part to maintain the vehicle's strength and getting better energy. Electric vehicle's use mechanical brake to boost the roughness of wheel for the deceleration purpose. However, from the point of view of saving energy, mechanical brake increases out much energy while the EV's kinetic energy is renewed into the thermal one. This project proposes the efficient battery energy management system for regenerative braking application. This project has presented the RBS of EV's which are driven by the BLDC motor. The performance of the EV's regenerative brake system has been realized by our control scheme which has been implemented both in the simulation and in the experiments. By combining fuzzy control and PID control methods which are both sophisticated methods, RBS can distribute the mechanical braking force and electrical braking force on. In this paper, we have chosen the three most important factors: SOC, speed, and brake strength as the fuzzy control input variables. Conventional braking systems use friction to counteract the forward momentum of a moving car. As the brake pads rub against the wheels, excessive heat energy is created. This heat energy dissipates into the air, wasting up to 30% of the car's generated power.

#### I. INTRODUCTION

Prologue to Regenerative Braking System When a regular vehicle applies its brakes; motor vitality is changed over to warm as grinding between the brake cushions and wheels. This warmth is diverting in the airstream and the vitality is viably squandered the aggregate sum of vitality lost along these lines relies upon how frequently, how hard and for to what extent the brakes are applied. Regenerative slowing down alludes to a procedure in which a bit of the motor vitality of the vehicle is put away by a momentary stockpiling framework. Vitality regularly dispersed in the brakes is guided by a force transmission framework to the vitality store during deceleration. That vitality is held until required again by the vehicle, whereby it is changed over go into motor vitality and used to quicken the vehicle. The size of the part accessible for vitality stock piling changes as per the kind of capacity, drive train effectiveness, and drive cycle and idleness weight. A lorry on the mother way could travel 100 miles between stops.

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This speaks to small sparing regardless of whether the proficiency of the framework is 100%. Downtown area driving includes a lot additionally slowing down occasions speaking to a lot higher vitality misfortune with more prominent likely investment funds. With transports, taxis, conveyance vans, etc. there is much increasingly potential for economy. Since regenerative slowing down outcomes in an expansion in vitality yield for a given vitality contribution to a vehicle, the effectiveness is improved the measure of work done by the motor of the vehicle is diminished, thereby decreasing the measure of prime vitality required to impel the vehicle. All together for a regenerative slowing mechanism to be practical the prime vitality spared over a predetermined lifetime must balance the underlying cost, size and weight punishments of the framework To be effective a regenerative breaking mechanism ought to in a perfect world have the accompanying properties, Efficient vitality transformation A vitality store with a high limit for each unit weight and volume. A high force rating to a lot of vitality can stream in a short space of time. Not require over entangled control frameworks to connect it with the vehicle transmission. Smooth conveyance of intensity from the regenerative framework. Absorb and store slowing down vitality in direct extent to slowing down, with the least deferral and misfortune over a wide scope of street speeds and wheel forces.

#### II. RELATED WORK

[1] S.H. Park, J.S. Kim, J.J. Choi, H. Yamazaki, "Modelling and Control of Adhesion Force in Railway Rolling Stocks", IEEE Control Systems Magazine. A wheel slide protection (WSP) system of a railway train has the role of reducing excessive wheel slide from brake applications in situations where wheel/rail adhesion is temporarily impaired. The mechanism of the WSP is complex and is related to highly nonlinear dynamics of the train. Hardware-in-the-loop simulation (HILS) for the WSP system can test various dangerous braking conditions which are not possible in actual train tests, and help to find appropriate parameters of the WSP system [2] Picasso, D. Caporal, P. Colaneri, "A distributed braking control algorithm with preview action for railroad vehicles". A method is proposed to enhance the overall

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Fig.B.2.2.3c Sample of student project paper published in the journal



#### 2.2.4 Initiatives related to industry interaction

(10)

##### Self Assessment (10)

*(Give details of the industry involvement in the program such as industry-attached laboratories, partial delivery of appropriate courses by industry experts etc. Mention the initiatives, implementation details and impact analysis)*

The industry involvement in the program is vital for enhancing the learning level of students. Further, Industry involvement/interaction with the department is regarded as part of the curriculum as it gives students an insight into the real industrial practices and making him/her industry-ready. In order to provide opportunity for learning industrial practices and add value to the curriculum and syllabi, following industry sponsored laboratories are established.

- **Power Electronics Laboratory:**

Power Electronics lab is one of the Industries sponsored lab established in collaboration with M/s Kulothung Automotive Systems 2017 by signing a MoU. The main objective of establishing the lab is to develop a product in the area of power electronics based automotive system for sustainable development. Further, The Centre aims to support the ambitious students to take up internships and projects on power electronics based automotive system.

#### **Industry involvement in the programme Design and Curriculum:**

Industry experts are involved in the curriculum development through

- Department Advisory Board (DAB) as members
- Invited industry expert for providing feedback at the primary stage of curriculum and syllabi development
- Board of Studies - Experts from various Industries are representing as members of Board of Studies for approving the curriculum and syllabi of the programme
- Academic council - Experts from Industries are representing as members of Academic council to approve the curriculum and syllabi of the programme



- **Involving industry by signing Memorandum of Understanding (MoU)**
  - To provide an insight in the latest developments / requirements of the industries
  - To provide an exposure to the students for getting a smooth transition from academic to work career
  - To arrange Joint Seminars from field personalities and to share their knowledge with student
  - To provide guest lecture(s), internship for the students on mutually agreeable terms and conditions with placement assistance.

**Table B.2.2.4a Memorandum of Understanding(MoU) with Industries**

S.No.	Date	Industry	Interacted Person	Events through MoU
1.	20.09.2021	M/s Sairam Infotech Erode.	Mr.N.Subharathna Technical Engineer Erode	Seminar on “Full stack Development mean stack
2.	4.08.2020	Nexware Technologies Private Limited, Coimbatore	Er.S.Senthilkumar Associate Engineer	Industrial Seminar on “Recent Trends in IOT”
3.	15.09.2020	Kulothung Automotive Systems, Erode	Mr. S. Nehru, Managing Director, Kulothung Automotive Systems, Erode	Optical Sensor Technology in Industrial Automation
4.	23.09.19	LMT Software Solutions Pvt Ltd, Bangalore	Mr.M.Parthiban Managing Director, Bangalore	Hands on training in “Power supply design
5.	01.12.2018	Nexware Technologies Private Limited, Coimbatore	Mr. G.Mohan, Managing Director, Coimbatore	Seminar on “Career and opportunities in bilingual engineers”
6.	06.02.2018	Power Projects, Kangeyam	Mr. S.Selvakumar Business Head Chennai	Industrial Seminar On “Applied Power System And Opportunities In Power Sector”
7.	19.07.2017	Sun Rise Automation and Solutions Coimbatore	Mr. R.Sathiyamurthy, Manager –Technical, Sunrise Automation and Solutions, Coimbatore	Industrial seminar on” Role Of Electrical Engineers In



				Automation”
8.	06.02.2017	General Electrical And Electronic Solutions, Salem	Mr. A.G. Kannan Managing Director, Salem	Industrial Seminar On “Industrial Safety”
9.	02.02.2017	Kulothung Automotive Systems, Erode	Mr. S. Nehru, Managing Director, Kulothung Automotive Systems, Erode	Industrial Seminar on “Electrical Engineering in Industrial Perceptive”
10	11.02.2017	Prolific Systems and Technologies Pvt Ltd, Coimbatore	Mr. K.Ilanchezhian, Assistant Manager, Prolific Systems & Technologies Pvt.Ltd, Coimbatore	Industrial Seminar On “Plant Automation & PLC SCADA Applications”
11	10.10.2016	Universiti Teknologi Petronas, Malaysia	Dr. Jafreezal B Jaafar/ Dr. Izzatdin B Abdul Aziz, Associate Professor	Students Exchange Programme

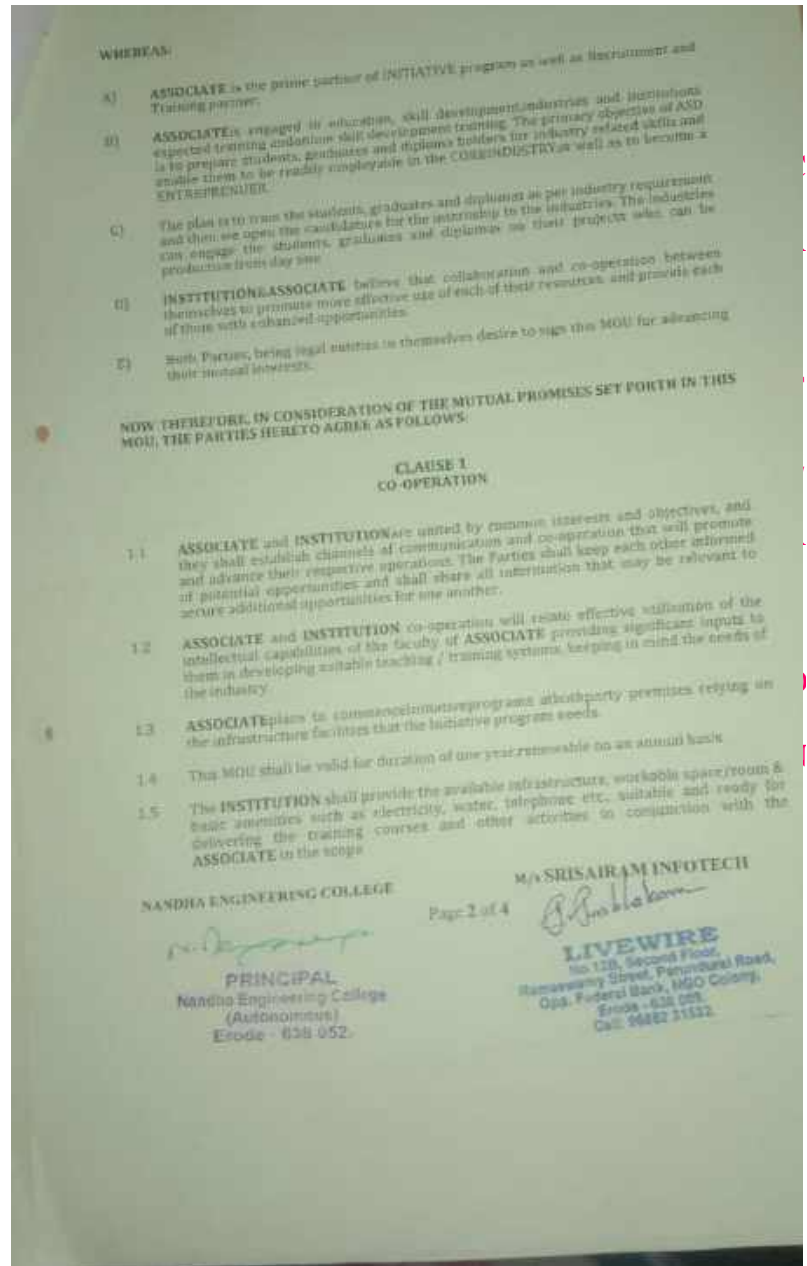




**Figure B 2.2.4a MoU with M/s Sairam Infotech, Erode**

MoU with M/s Sairam Infotech, Erode , Signed on 20.9.2021 in the presence of Mr.N.Subharathna , Technical Engineer, Head of the Institution Dr.N.Rengarajan and Head of the Department Dr.G.Ramani





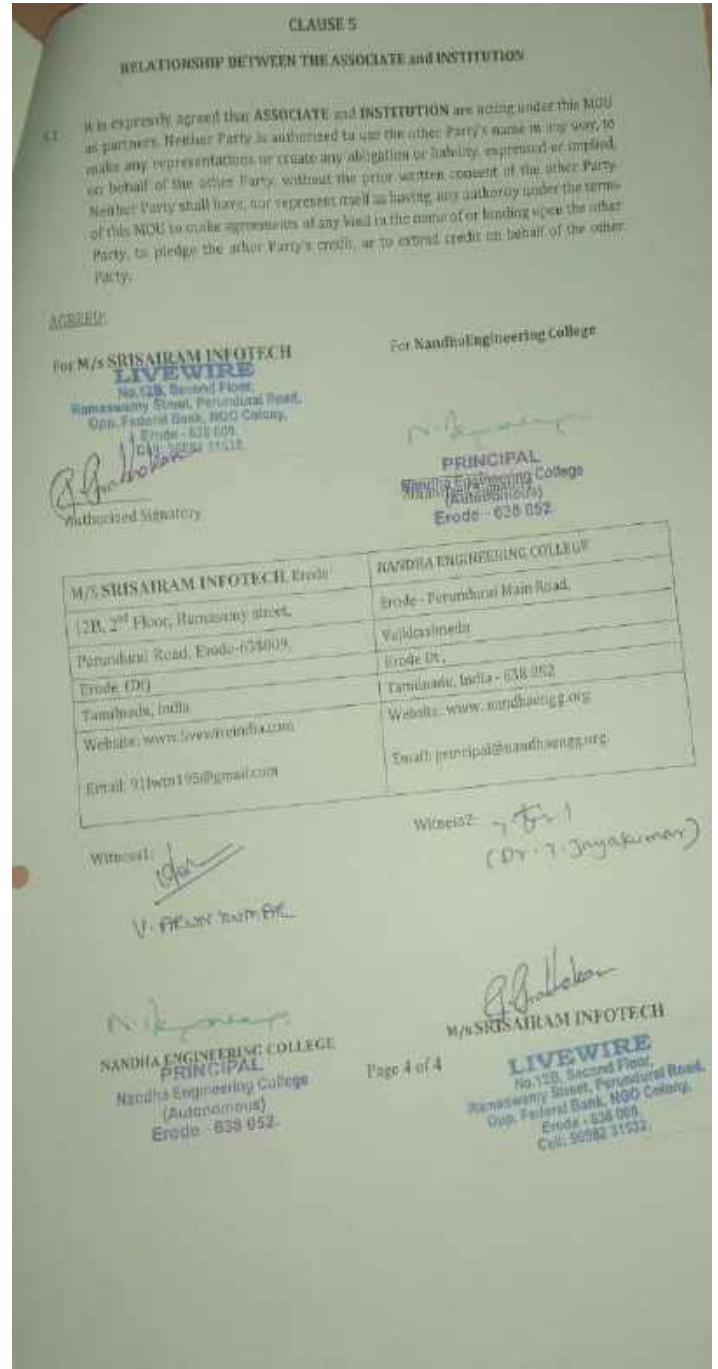
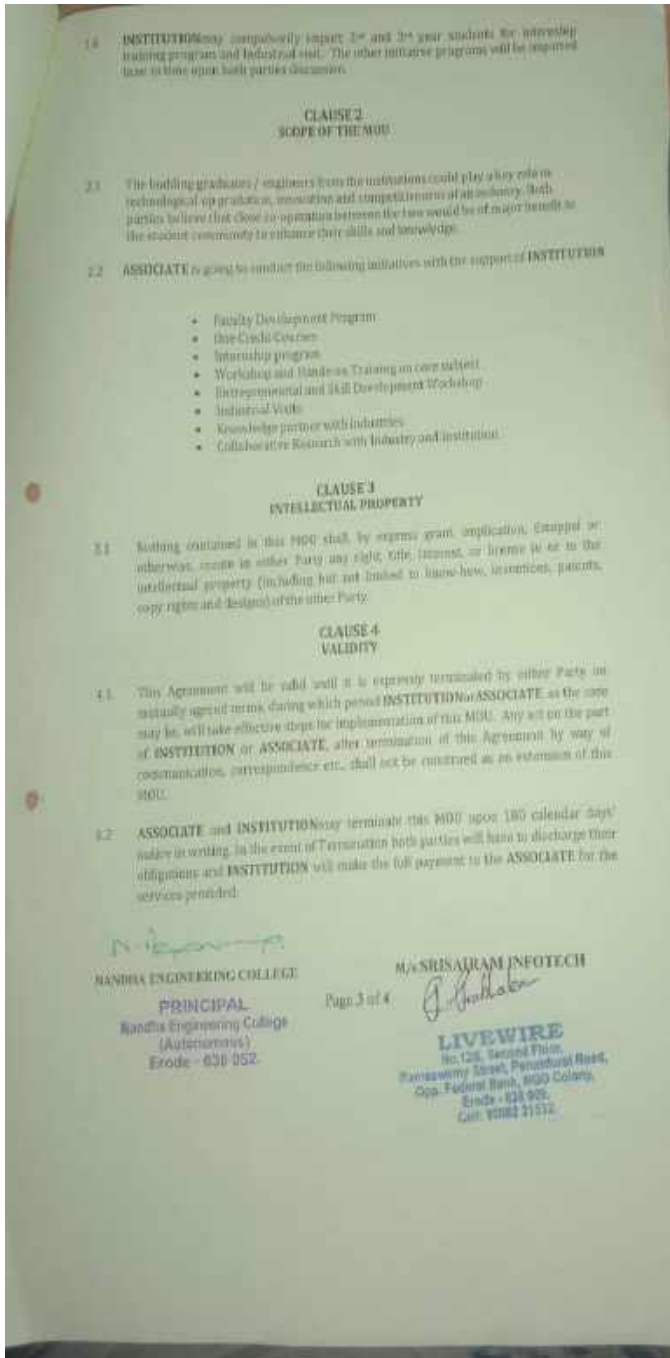


Figure B2.2.4b MoU with M/s Sairam Infotech, Erode - Agreement





**Figure B 2.2.4c Industrial seminar program on “Full Stack Development Mean Stack”  
Mr.N.Subharathna , Technical Engineer , M/s Sairam Infotech, Erode.**

### **Industry involvement in partial delivery of the course**

- **One Credit Courses**

As per the institutional regulation, students can also opt for one credit industry oriented courses for a minimum of 15 hours duration, which will be offered by experts from industry on specialized topics apart from the prescribed courses of study of the programme. Students can complete such one credit courses during the third to seventh semesters as and when these courses are offered by the department. There is no limit on the number of one credit courses a student can register and successfully complete during the above period.

Steps involved in designing and assessment of one credit courses:

- Step 1:** The HOD and industry expert shall decide name and syllabi of the one credit course.
- Step 2:** The concerned HOD collects the name list of the students those are interested in attending the above course.
- Step 3:** The course shall be taught by industry experts as a course teacher.





**Step 4:** The course end examination has to be conducted and the evaluation will be done by the same industry expert.

**Step 5:** If the student passes the course, it will be indicated in the grade sheet. If the student fails to pass the course, the one credit course will not be reflected in the grade sheet. There is no arrear exam for one credit courses.

**Table B.2.2.4b List of One Credit Courses Conducted**

ACADEMIC YEAR 2021-2022			
S.No	DATE	TITLE	RESOURCE PERSON
1	16.10.21 &17.10.21	17EEI04-INDUSTRIAL AUTOMATION	Novitech
2	28.5.2021 &29.5.2021	17EEI03-SCADA AUTOMATION	Axis global technologies

ACADEMIC YEAR 2020-2021			
S.No	DATE	TITLE	RESOURCE PERSON
1	13.03.2021 &14.03.2021	17EEI02 & PLC AUTOMATION	Mikrosun Technology

ACADEMIC YEAR 2019-2020			
S.No.	DATE	TITLE	RESOURCE PERSON
1	10.08.2019 &11.08.2019	17EEI02 & PLC Automation	Mr.Amul Babu Application Engineer (SMEC AUTOMATION)
2	08.02.2020 &09.02.2020	17EEI03 & SCADA Automation	Mr.Jagatheesh Project Engineer (AXIS GLOBAL)



ACADEMIC YEAR 2018-2019			
S.No.	DATE	TITLE	RESOURCE PERSON
1	11.08.2018 &12.08.2018	15EEI02 & SCADA Automation	Mr.D.Rajasekaran Application Engineer (AXIS GLOBAL)
2	23.02.2019 &24.02.2019	15EEI05 & PLC Automation	Mr.D.Rajasekaran Application Engineer (AXIS GLOBAL)
3	23.02.2019 &24.02.2019	17EEI01 & PCB Designing	Mr.V.S.Nivedhan Senior Engineer (POWER PROJECTS)



**Impact analysis of industry institute interaction and actions taken thereof**

In BoS meeting the members suggested to add latest industry related course. Hence we have included Electric and Hybrid Vehicles as a PSE in the R17 curriculum.

**NANDHA ENGINEERING COLLEGE, ERODE – 638 052**  
**(An Autonomous Institution, Affiliated to Anna University Chennai and approved by AICTE New Delhi)**

**Minutes of 9<sup>th</sup> Board of Studies Meeting (BoS) held on 05.08.2021**

The 9<sup>th</sup> Board of Studies (BoS) meeting was held on 05.08.2021 by 11.00 am through online mode as per permission given by Anna University. The members attended the meeting are given in **Annexure I**.

Dr. G.Ramani, Chairman (BoS) and Professor & Head, Electrical and Electronics Engineering chaired the meeting, welcomed all the members to the ninth BoS meeting and introduced the members of BoS. After the brief introduction, the agenda items listed below were taken up for discussion and the following resolutions were passed.

AGENDA	
✓ Details of members for 9th BoS	
Item-9.01	Review of Action Taken Report on 8 <sup>th</sup> BOS Meeting
Item-9.02	Review of Action Taken Report on 8 <sup>th</sup> Academic Council Meeting & Governing Body
Item-9.03	Vision & Mission (Institution & Program) CO, PO, PSO mapping
Item-9.04	Approval of Online/ One Credit Courses for UG program
Item-9.05	Approval of new Program Specific Electives (PSE) course in R17 regulation for UG Program
Item-9.06	Conduct of examinations through online mode as per the Anna university guidelines
Item-9.07	Any other matter
Item-9.08	Vote of Thanks

The proceedings of BoS started and the minutes of the meeting are recorded as follows:

	<b>Details of members for 9<sup>th</sup>BoS</b>	
Discussion	Dr.G.Ramani, Chairman/BoS introduced the members of the Board of Studies	
<b>Item 9.01</b>	<b>Review of Action Taken Report on 8<sup>th</sup> BoS meeting</b>	
Resolution	Resolved to approve the ATR of 8 <sup>th</sup> BoS meeting.	
<b>Item 9.02</b>	<b>Review of Action Taken Report on 8<sup>th</sup> Academic Council Meeting &amp; Governing Body (for Electrical and Electronics Engineering)</b>	
Resolution	Resolved to approve the Action Taken Report on 8 <sup>th</sup> Academic Council meeting	
<b>Item 9.03</b>	<b>Vision &amp; Mission (Institution &amp; Program) CO, PO, PSO mapping</b>	
Resolution	Resolved to approve the Vision & Mission (Institution & Program) CO, PO, PSO mapping	
<b>Item 9.04</b>	<b>Approval of Online/ One Credit Courses for UG program</b>	
Discussion	Members appreciated the efforts taken by the college towards providing credits for online courses and given flexibility to the students to choose courses based on their interest.	
Resolution	Members noted the contents and resolved to record the same.	
<b>Item 9.05</b>	<b>Approval of new Program Specific Electives (PSE) course in R17 regulation for UG Program</b>	
Discussion	<p><b>Electrical Machines I :</b></p> <ul style="list-style-type: none"> <li>• Dr.N.P.Subramaniam suggested to change the contact periods as 4 according to LTPC.</li> <li>• Dr.N.P.Subramaniam suggested to add a new edition for the mentioned textbook.</li> </ul> <p><b>Programme Specific Electives: Electric and Hybrid Vehicles:</b></p> <ul style="list-style-type: none"> <li>• Dr.N.P.Subramaniam suggested to add the types of design components in syllabus.</li> </ul>	<p>✓ Considered</p> <p>✓ Added</p> <p>✓ Added</p>
Resolution	Resolved to approve Programme Specific Electives (PSE) of R17 UG under Regulation R17 for the batch of students admitted in B.E – Electrical and Electronics Engineering programme from the year 2021 - 22 onwards.	
<b>Item 9.06</b>	<b>Conduct of examinations through online mode as per the Anna university guidelines</b>	
Resolution	NIL	
<b>Item 9.07</b>	<b>Any other matter</b>	
Resolution	NIL	



Dr.G.Ramani, HOD/EEE, thanked all the members for their active participation.

Date: 05.08.2021

*Handwritten signature and date: 5/8/2021*

*Handwritten signature: G.Ramani*  
Dr G.Ramani  
CHAIRMAN, BoS/EEE

Dr. G. RAMANI, M.E, Ph.D.,  
Head of the Department  
Department of EEE  
Nandha Engineering College (Autonomous)  
Erode - 638 052.

Figure B 2.2.4d BoS Meeting Minutes



**2.2.5 Initiatives related to industry internship/summer training (10)**  
**Self Assessment (10)**

*(Mention the initiatives, implementation details and impact analysis)*

- Students are encouraged to undergo Internship and Inplant Training during their winter and summer vacations in various private and public sectors related to Computer Science and Engineering.
- Members of faculty are encouraged to undergo industrial training and to conduct the relevant courses as per the industry needs.
- The faculty members of the department constantly try to interact with various industries to get exposure towards the current industrial trends thereby improving the teaching learning process.
- The Training and Placement cell takes steps to arrange internship opportunities for the final year students.
- In addition to this, faculty members approach different industries to get an opportunity for internship to the students.
- Students are taken for industrial visit every academic year, so that they get a chance to experience the industrial environment.

**NANDHA ENGINEERING COLLEGE, ERODE- 638 052**  
**(Autonomous)**  
**Department of Electrical and Electronics Engineering**  
**INDUSTRIAL VISIT REPORT**

Second year EEE students had visited **TRACO Cable Company Ltd**, Cochin, Kerala on 22<sup>nd</sup> February 2019.

**Total Strength:** 55 students and 2 Faculty members.

**Year/ Branch:** II / EEE

**Semester:** IV

**Date of Visit:** 22-02-2019

**Name of the Industry:** TRACO Cable Company Ltd, Cochin, Kerala

**Field Visit:** Cables and Conductors

**Outcome:**



**PO CO and PSO Mapping:** PO3, PO5, PO6, PO7, PO9, PO12 and PSO1, PSO4

### Plants:

The students were separated into three batches and they are allowed to visit the company work areas

- Weatherproof cables
- XLPE ground cables
- Control cables
- ACSR conductor

### Weatherproof cables:

The salient features of weatherproof cables are high-grade raw material, highly conductive, with proper insulation.

- 1) Single Core from 25 sq.mm to 185 sq.mm PVC Insulated and Sheathed Aluminium Wires.
- 2) 2 x 2.5 sq.mm and 2x6 sq.mm Flat Twin PVC Insulated and PVC Sheathed Cables

### XLPE ground cables

XLPE UG cables upto 11 KV. Sizes upto 3 x 300 sq.mm Aluminium wires. As per IS 7098 Part II

### Control Cables:

Control cables comprises of Tinned copper wires with sizes ranging from 2 x 2.5 sq.mm to 19 x 2.5 sq.mm and 2 x 4 sq.mm to 19 x 4 sq.mm with PVC insulation, Armoured and PVC sheathed as per IS 1554.

### ACSR Conductor:

Conductor types are Dog, Raccoon, Weasel, Rabbit, Panther, Squirrel, Voltage capacity upto 400 KV line conductor size upto 574 sq.mm current carrying capacity from 70 Amp to 890 Amp Certification BS As per IS 398 Part II for Overhead lines for both Distribution and Transmission purposes

### Students Feedback:

The students gain knowledge in the cables and conductors manufacturing process.





Figure B2.2.5a Industrial Visit

**NANDHA ENGINEERING COLLEGE, ERODE- 638 052  
(Autonomous)**

**Department of Electrical and Electronics Engineering  
INDUSTRIAL VISIT REPORT**

Second year EEE students had visited SMEC, Trivandrum, Kerala on 31<sup>st</sup> August 2019.

**Total Strength :** 58 students and 2 Faculty members.

**Year/ Branch :** II / EEE

**Semester :** IV

**Date of Visit :** 31-08-2019

**Name of the Industry:** SMEC, Trivandrum, Kerala

**Field Visit:** Marine Electrical & Automation, Integrated monitoring and alarm system, Generator Controllers, Electro mechanical and digital control

**Outcome:**

**PO CO and PSO Mapping:** PO3, PO5, PO6, PO7, PO9, PO12 and PSO1, PSO4

**Plants:**

In morning session, they had taught about below mentioned areas. Afternoon session, the students were separated into three batches and they are allowed to visit the work areas

- Main engine control system
- Generator controllers





- Integrated alarm monitoring
- Industrial electrical and marine services
- Rig Electrical, Automation and Electrical service

**Main engine control system:**

Main engine control system's behavior is first observed carefully to locate the problem then the fault is identified and rectified. System consists of electro mechanical and digital controls for start, stop, speed control, shut down, slow-down, safety, and alarm systems are repaired and tested.

**Generator controllers**

The primary function of Generator controller is to manage and protect the generator in preference to the engine, which is not a direct concern. GC can be used in applications where engine management or protection is not required or in cases where the generator is powered by another source such as a turbine controlled by an external PLC. The controller is suitable for use in Land Based and Marine applications.

**Integrated alarm monitoring:**

Integrated alarm monitoring and alarm system dedicated to improving ship operations via increased safety and reliability. Machinery alarm and monitoring for every type of vessel. Integrated or stand-alone cargo alarm system for tankers.

**Industrial electrical and marine services:**

Secure your investment and take advantage of innovations with SMEC Strategic decisions surrounding the future of automation technology are a key factor in sustaining your competitive edge.

**Rig Electrical, Automation and Electrical service:**

SMEC Automation has extensive experience in automating and mechanizing drilling and workover rigs. These automated and semi-automated drilling systems have been built for the Norwegian sector of the North Sea, Arctic rigs on the north slope of Alaska, desert rigs in Oman, slant drilling rigs in China and mobile trailer rigs in Brazil.

**Students Feedback:**

The students gain knowledge in the industrial electrical and marine services.





**Figure B.2.2.5b Sample Report of Industrial Visit**

The alumni coordinator constantly interacts with alumni, who are working in the industries and request them to provide necessary guidelines and supports for their junior's internship.

- The students are given an opportunity to learn new skills which makes a valuable addition to their resume through Inplant training.
- The Industrial visit, Internship and Inplant training provides opportunity to meet new people and practice their networking skills which in turn opens the door to a job offer or an employment recommendation.

### **Internship/ In-plant training**

The students are encouraged to do an internship in industries during vacation period and specifically, the students of final year are facilitated with long term internship in industries.

The student internship will provide them a scope to practice as an engineer on the floor. Initiatives and implementation details of industry internship / summer training are as follows:

- The students are encouraged to take up internship/ In-plant training program during summer vacation
- Faculty members help the students by interacting with the industrial experts and provide the necessary documents to the students to carry out the training
- The alumni help the faculty members and students by providing the contact details and



initiate the process of training. They also provide necessary guidelines and supports for getting the internships.

**Table B.2.2.5a Initiatives, Implementation of Internship/ In-plant training**

ACADEMIC YEAR 2021-2022			
S.No	STUDENT NAME	COMPANY NAME	INTERN PERIOD
1	S .GOKULRAJA	EMF Innovations Pvt Ltd, Coimbatore	August-December 2021
2	S .JAYARAM	EMF Innovations Pvt Ltd, Coimbatore	August- December 2021
3	K .SATHISH	EMF Innovations Pvt Ltd, Coimbatore	August- December 2021
4	J .SOWNTHARAJ	EMF Innovations Pvt Ltd, Coimbatore	August- December 2021
5	S. GOKUL	EMF Innovations Pvt Ltd, Coimbatore	August- December 2021
6	S .BALAKUMARAN	JK Tech Systems,Erode	Dec 2021-June 2022
7	R .MANIKANDAN	Adhiprinia,Namakkal	November - December 2021
8	S.MANOJKUMAR	Zoho Corporation Pvt. Ltd, Potheri, Kanchipuram	25 <sup>th</sup> March 2022-30 <sup>th</sup> May 2022
9	S.PREMNATH	Zoho Corporation Pvt. Ltd, Potheri, Kanchipuram	25 <sup>th</sup> March 2022-30 <sup>th</sup> May 2022
10	S.SELVAKAMALES HWAR	CognizantTechnology Solutions India Pvt. Ltd.,Chennai	Feb 2022-May 2022
11	S.PRAVEEN KUMAR	CognizantTechnology Solutions India Pvt. Ltd.,Chennai	Feb 2022-May 2022
12	M.KARTHIKEYAN	CognizantTechnology Solutions India Pvt. Ltd.,Chennai	Feb 2022-May 2022
13	T.DHIYANESH	Wipro Limited,Coimbatore	March 2022-June 2022
14	P.SUJITH	Wipro Limited,Coimbatore	March 2022-June 2022
15	M.SADHASIVAM	Qspiders, Chennai	March 2022-May 2022
16	A.PRAVEEN KUMAR	Qspiders, Chennai	March 2022-May 2022



17	L.MOHANA SUNDAR	Qspiders, Chennai	March 2022-May 2022
18	S.SNEKA	DXC Technology,Chennai	April 2022-May 2022
19	M.HARINI	DXC Technology,Chennai	April 2022-May 2022

ACADEMIC YEAR 2020-2021			
S.No	STUDENT NAME	COMPANY NAME	INTERN PERIOD
1	KOUSHIKA B	Shiash Info Solutions Private Limited, Chennai	Feb to April 2021
2	SAKTHISIVA RAJA M	Cognizant	Jan to April 2021
3	SHALINI B	Spice Jet Ltd,Mumbai	March to April 2021
4	SUGEETH V	Cognizant	Jan to April 2021
5	VISALINI S	Cognizant	Jan to April 2021

ACADEMIC YEAR 2019-2020			
S.NO.	STUDENT NAME	COMPANY NAME	INTERN PERIOD
1.	BOWYA V	New Gen Infotech Private Limited	Jan 2019 to June 2020
2.	SANGEETHA S	New Gen Infotech Private Limited	Jan 2019 to June 2020
3.	RANJITH M	Data Patterns	Jan 2019 to April 2020
ACADEMIC YEAR 2018-2019			
S.NO.	STUDENT NAME	COMPANY NAME	INTERN PERIOD
1.	RAVICHANDRAN.P	Dhana Rathna Infra Private Limited	03.02.2019 – 20.03.2019
2.	LOGESWARAN.S	Dhana Rathna Infra Private Limited	03.02.2019 – 20.03.2019
3.	LOKESH.B	Dhana Rathna Infra Private Limited	03.02.2019 – 20.03.2019

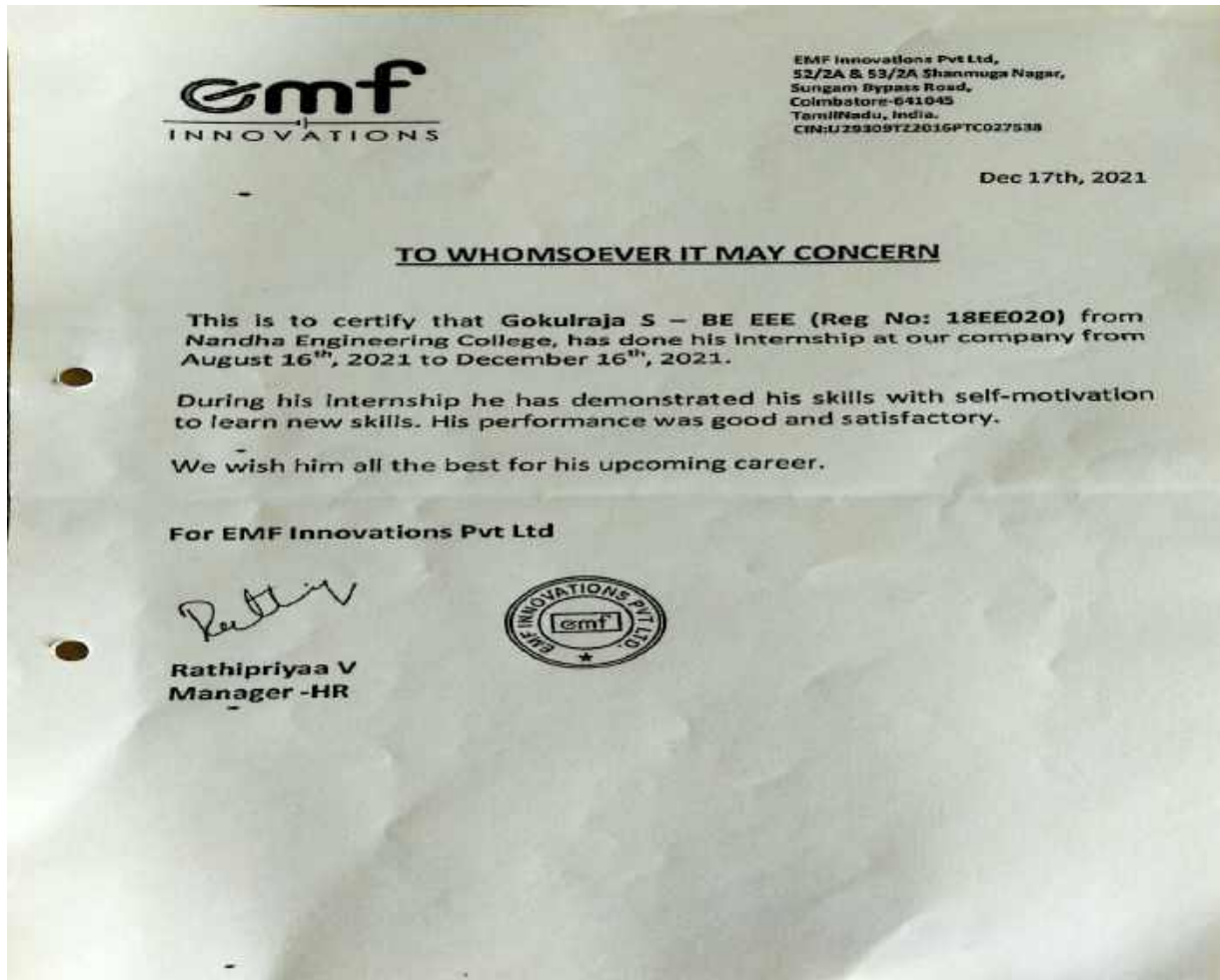


4.	ANJANADEVI.B	Lumisense Technologies Pvt Ltd.	Feb. 2019 to March 2019
5.	RAMYA.G	Lumisense Technologies Pvt Ltd.	Feb. 2019 to March 2019
6.	ROSHINI.G	Lumisense Technologies Pvt Ltd.	Feb. 2019 to March 2019
7.	SANGEETHA.M	Lumisense Technologies Pvt Ltd.	Feb. 2019 to March 2019
8.	THOGAIVEL.M	Titan Engineering & Automation Limited	21.01.2019 – 20.02.2019
9.	A.MATHIVATHANI	Ampere Vehicles Pvt. Ltd	08-01-2019 – 28-02-2019
10.	SHALINI.R	Ampere Vehicles Pvt. Ltd	08-01-2019 – 28-02-2019
11.	UMA MAGESHWARI.R	Ampere Vehicles Pvt. Ltd	08-01-2019 – 28-02-2019
12.	M.KEETHANA	Amptech Power Transformers	18-01-2019 – 18-02-2019
13.	E.SHANTHI	Amptech Power Transformers	18-01-2019 – 18-02-2019
14.	N.DEEPIKA	Amptech Power Transformers	18-01-2019 – 18-02-2019
15.	PRAVEEN.P	MAS Solar Systems Private Limited	23-01-2019 – 23-02-2019
16.	SUBASH.T	MAS Solar Systems Private Limited	23-01-2019 – 23-02-2019
17.	SUBBURATHINAM.K.M	MAS Solar Systems Private Limited	23-01-2019 – 23-02-2019
18.	SURESH.M	MAS Solar Systems Private Limited	23-01-2019 – 23-02-2019
19.	M.GAYATHRI	Sakthi Sugars Limited	Feb. 2019 to March 2019
20.	N.KANCHANA DEVI	Sakthi Sugars Limited	Feb. 2019 to March 2019
21.	K.S.KIRUTHIKA	Sakthi Sugars Limited	Feb. 2019 to March 2019
22.	KRISHNARAJ .C	Ramdevs Motors	19-12-2018 – 13-03-2019
23.	PRAVEEN KUMAR.T	Ramdevs Motors	19-12-2018 – 13-03-2019



24.	RAVICHANDRAN.P	Ramdevs Motors	19-12-2018 – 13-03-2019
25.	VIGNESH .P	Ramdevs Motors	19-12-2018 – 13-03-2019
26.	L.DHARSHINI	Ampere Vehicles Pvt. Ltd	08-01-2019 – 28-02-2019
27.	Y.BINU CHRISTINA	Sakthi Sugars Limited	30-01-2019 – 31-03-2019
28.	S.GARUNYAA	Sakthi Sugars Limited	30-01-2019 – 31-03-2019
29.	S.NANDHINI	Sakthi Sugars Limited	30-01-2019 – 31-03-2019
30.	R.SUDHANI	Sakthi Sugars Limited	30-01-2019 – 31-03-2019
31.	KOKILA.P	Tamil Nadu Newsprint and papers Limited	09-01-2019 – 01-02-2019
32.	KOKILAVANI.S	Tamil Nadu Newsprint and papers Limited	09-01-2019 – 01-02-2019
33.	PRIYATHARSHINI.D.B	Tamil Nadu Newsprint and papers Limited	09-01-2019 – 07-02-2019
34.	THIVISRI.V	Tamil Nadu Newsprint and papers Limited	09-01-2019 – 07-02-2019





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**Cognizant**

18-Jan-2022

S Praveen Kumar  
B.E. Electrical & Electronics Engineering  
Nandha Engineering College, Erode

**Dear S Praveen Kumar,**

Further to our Letter of **offer** / Offer for the position of Programmer Analyst Trainee / Programmer Analyst aligned to the hiring category and in response to your subsequent confirmation for Internship Program with us, we are pleased to offer you an Internship with us for a **period of 3 to 6 months**. Your Internship onboarding will be scheduled anytime between now, through end of March 2022 based on your availability factoring your college exam schedule and our business requirements.

During this period, you will be provided with a stipend of INR 12,000 per month equated to the planned duration of the Internship curriculum and will be paid only subject to successful completion of milestones as defined in the curriculum prior to the monthly stipend processing window for a given month based on your performance and attendance.

Actual commencement of Internship dates and duration would be shortly communicated to you and the internship would be based on the business demand aligned to your skill tracks.

Though Cognizant Internship being a pre-requisite skill and capability development program, it does not guarantee employment. However, the successful completion of internship will form a critical part of your employment with Cognizant if an opportunity arises in future.

You will undergo a learning curriculum as per the learning track assigned to you. The learning path will include in-depth sessions, hands on exercise and project work. There will also be series of webinars, quizzes, SME interactions, mentor connects, code challenges, assessments etc. to accelerate your learning. The outcome during Internship would be monitored through formal evaluations.

Prior to joining on the rolls of Cognizant, you must have successfully completed the prescribed Internship program. In the event of unsatisfactory Internship, Cognizant reserves rights at its sole discretion to revoke its employment offer.

Please also note that:

- The Internship timings would be for 9 hours per day from Monday through Friday aligned to the working timings followed in Cognizant
- Interns are covered under Cognizant's calendar holidays of the respective location of internship and you would need to adhere with minimum attendance requirements. Prior approvals are must towards any unavoidable leave or break requests during the program.
- There would be zero tolerance to plagiarisms and misconduct during the internship. Any such incident reported will lead to immediate cancellation of internship without any notice.
- You would be required to ensure timely completion and submission of assignments, project work and preparation required prior to the sessions.
- You may be required, to travel to other locations within India if there is a business need as per your internship program
- Cognizant reserves rights regarding IT infra as applicable and access to information and material of Cognizant during the internship period and may modify or amend the Cognizant GenC program terms and conditions from time to time
- Stipend payment will be done for the prescribed Internship Curriculum period only and no additional payment will be done for any delay in completion.
- Attendance and successful completion of Milestone(s) are the eligible factors for processing stipend

Regd Office: 115/535, Old Mahabalipuram Road, Okkiam Thoraipakkam, Chennai - 600 097



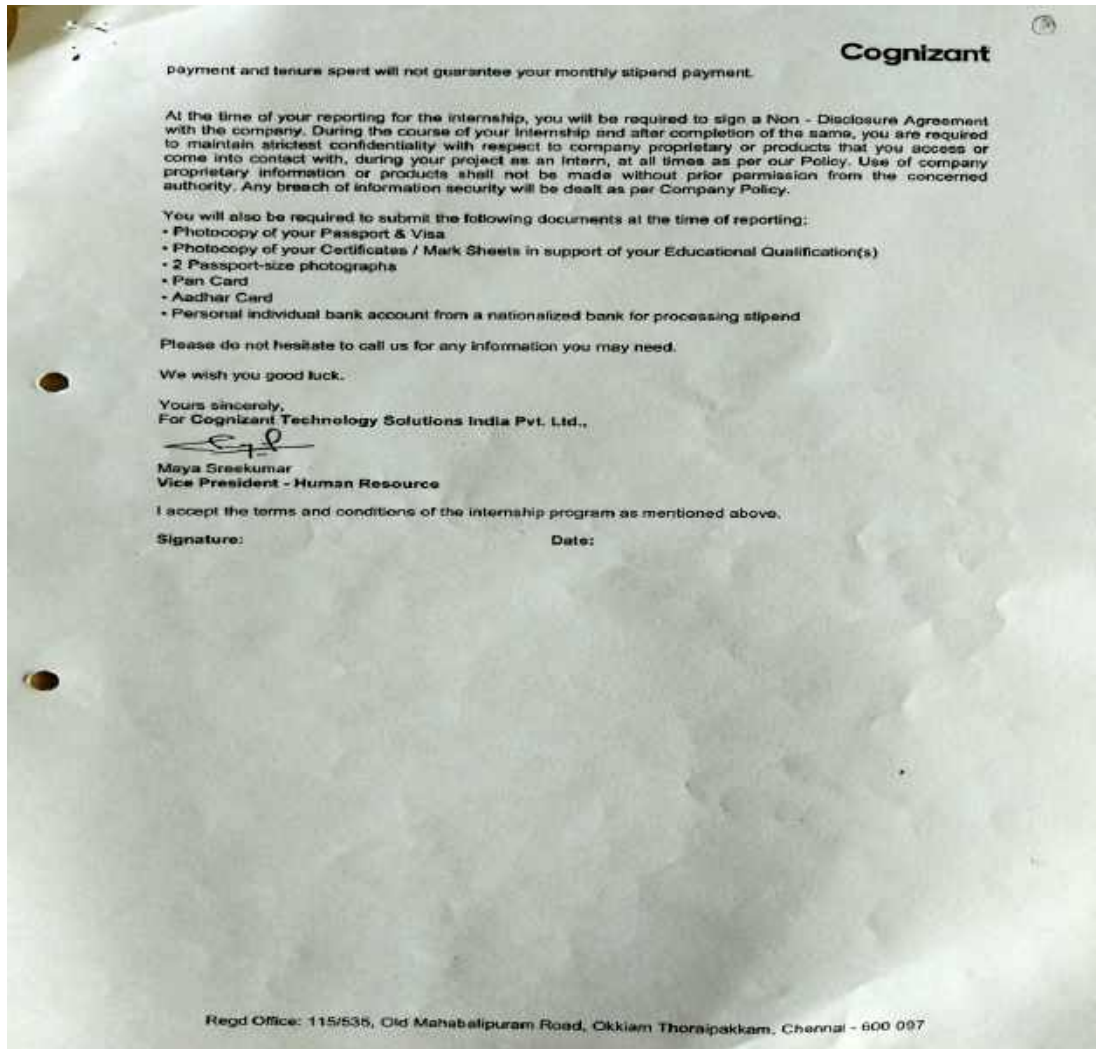


Figure B.2.2.5c Sample Internship offer letters



## In-Plant Training

Students are asked to undergo in-plant training in the semester holidays, through which they will get to know about the software and tools that are used in those industries. They will experience the industry environment and get some adequate knowledge about the activities and team work involved in the industry. Each student can have a IPT booklet. They have to update their IPT details undergone in that booklet.





Figure B.2.2.5d Sample In-plant Training Record




**NANDHA ENGINEERING COLLEGE (Autonomous)**
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**
**IN-PLANT TRAINING / INDUSTRIAL VISIT FEEDBACK FORM**

Name of Student	S.P. MADHU PRANESH
Register Number	18EE027
Date of Visit	06/11/2021
Company Name & Location	Traco cables, Trivandrum

Please respond to the following statements by using the 4-point rating scale to indicate the extent to which you agree or disagree with each statement. Please circle the number that applies.

4= Strongly Agree 3= Agree 2= Disagree 1= Strongly Disagree

Objectives of the company were stated clearly and met.	↗ 3 2 1
This visit helped me to learn the practical exposure related to the concepts studied in the theory subjects	↗ 3 2 1
The information and/or skills presented in the company were relevant and useful	↗ 3 2 1
The presenter(s) provided adequate time for questions and answered them satisfactorily.	4 ↗ 2 1
How could you rate the safety arrangements at the company premises?	↗ 3 2 1
Outcome of this visit:	IT gave me good practical skills, I have saw the manufacturing process of transmission cables. I have studied the types of cables in transmission & distribution subject.
Any other Suggestions:	more number of visits can be arranged.

*Madhuprakash*  
SIGNATURE OF THE STUDENT

**Figure B.2.2.5e Sample In-plant Training/Industrial Tour Feedback Form**



**Table B.2.2.5b Initiatives, Implementation and Impact Analysis related to Industry Interaction**

S. No.	Initiatives	Implementation	Impact Analysis
1.	<b>Industry based One Credit Course</b>	Courses related to the recent trends are identified, included in the curriculum as one credit course/ laboratory course and offered to the students by the experts from Industry.	Students developed their skills and knowledge in recent trends and practices in industry. Students' confidence levels have been increased and are ready to face the core placements.
2.	<b>Industry Supported Laboratories/ Memorandum of Understanding (MoU)</b>	MoU is signed between the industries with mutual benefits by sharing knowledge, consultancy, student's internship, in-plant training, teaching collaboration, research & development and publications.	<ul style="list-style-type: none"> <li>- Support in designing the curriculum and syllabus</li> <li>- Training for students and faculty</li> <li>- Internship for students</li> <li>- Support in research projects</li> <li>- Consultancy work</li> <li>- Placements</li> <li>- Guest lectures</li> </ul>
3.	<b>Consultancy</b>	Faculty approaches the industry in collecting the problems faced by them. Industry problems are solved collaboratively along with the students.	<ul style="list-style-type: none"> <li>- Student will gain experience in solving industry problems</li> <li>- Interacting with industry officials improves student interpersonal skills</li> <li>- Student apply the fundamental design and analysis knowledge to solve the industry problems</li> </ul>

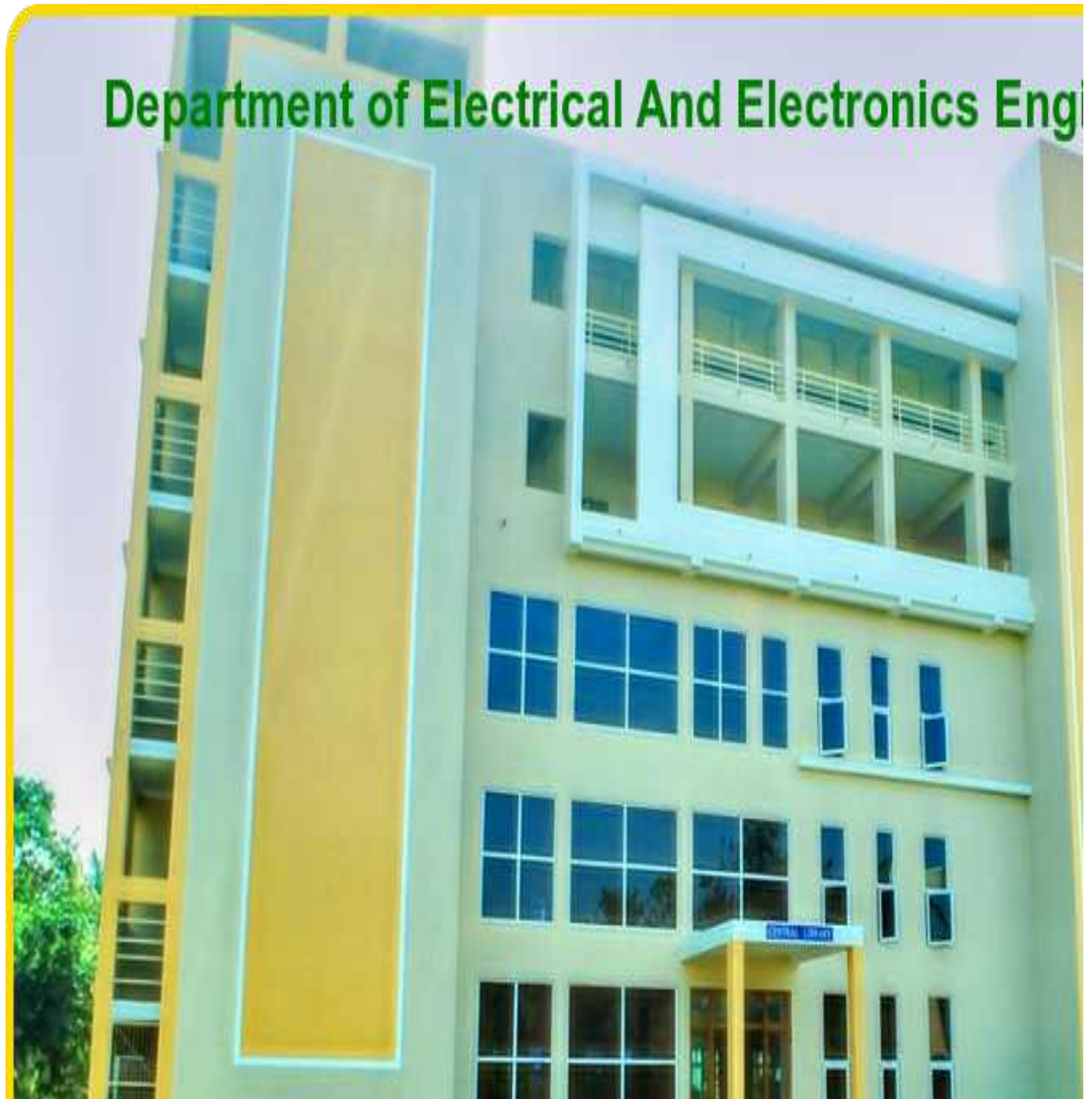


4.	<b>Industrial Visits</b>	Faculty and Students visit the industries as a part of teaching and learning process.	<ul style="list-style-type: none"> <li>- Industry visits help the students to relate their knowledge gained in classroom and laboratory</li> <li>- It helps them to understand the purpose of knowledge upgradation</li> </ul>
5.	<b>Industry Projects</b>	Students are encouraged to take industry projects as Capstone Projects. Helps to get awareness on recent practices in industry.	<ul style="list-style-type: none"> <li>- Students gain expertise in solving industrial problems professionally</li> </ul>
6.	<b>Faculty Industry Connect</b>	To arrange Internship/ In-plant training/ Consultancy/ Placements/ Seminar/ Workshop/ One credit course/ Contribution to curriculum/ Industry personnel training/Industry training to students.	<ul style="list-style-type: none"> <li>- Faculty connected with industry organized Industry personnel training, Workshop, Internship &amp; Industry training to students</li> </ul>
7.	<b>Contribution to Curriculum development</b>	During the BoS meetings, the curriculum feedback will be collected from the industry expert and designed the curriculum / syllabi with focus of having components with high relevance towards modern day industry practices and technologies.	<ul style="list-style-type: none"> <li>- Industry Academia Meet to bridge the gap</li> <li>- The addition of industry relevant courses in the curriculum / syllabi enabled the students to gain knowledge in the latest topics</li> </ul>



## CRITERION 3

# COURSE OUTCOMES AND PROGRAM OUTCOMES





<b>CRITERION 3</b>	<b>Course Outcomes and Program Outcomes</b>	<b>175</b>
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**PROGRAMME SPECIFIC OUTCOMES (PSOs):**

**PSO1:** Demonstrate knowledge and competence in the application of basic sciences, mathematics and fundamentals of electrical and electronics systems.

**PSO2:** Ability to explore complex engineering problems.

**PSO3:** Demonstrate the ability to communicate correctly, effectively work in a team and develop good personality.

**PSO4:** Apply appropriate techniques and modern engineering tools in core areas.

**PROGRAMME OUTCOMES (POs):**

1. Apply knowledge of mathematics, science and engineering to domain specific applications.
2. Identify, analyze and formulate Electrical and Electronics Engineering problems based on the knowledge of basic sciences and engineering.
3. Design and develop Electrical and Electronic Engineering based solutions to meet the desired requirements.
4. Investigate complex problems in the areas of power, control and energy to provide suitable solutions.
5. Use the techniques, skills and modern engineering tools necessary for real world applications within realistic constraints.
6. Apply engineering solutions in societal and global contexts.
7. Understand the impact of the solutions on the environment to ensure sustainability.
8. Understanding of professional and ethical responsibility.
9. Function as an individual and as a part of multidisciplinary team to accomplish a common goal.
10. Communicate effectively in both verbal and written forms.
11. Ability to use engineering and management principles, to manage projects and in multidisciplinary environments.
12. Recognition of the need for and ability to engage in lifelong learning.



**3.1 Establish the correlation between the courses and the Program Outcomes (POs) & Program Specific Outcomes (25).****Self Assessment (25)**

- NBA defined Program Outcomes as mentioned in Annexure I and Program Specific Outcomes as defined by the Program. Six to ten matrices of core courses are to be mentioned with at least one per semester.
- Select core courses to demonstrate the mapping/correlation with all POs and PSOs.
- Number of Outcomes for a Course is expected to be around 6.



3.1. A Evidence of Course outcomes being defined for every course

(5)

Self Assessment (5)

3.1. B Availability of Course outcomes embedded in the syllabi

(5)

Self Assessment (5)

17EEEC17-ELECTRIC DRIVES AND CONTROL			
			L
			2
PREREQUISITE : 17EEEC04, 17EEEC07 AND 17EEEC13		QUESTION PATTERN : TYPE - 1	
COURSE OBJECTIVES AND OUTCOMES:			
Course Objectives		Course Outcomes	
1.0	To provide knowledge on the process of learning fundamental concept of various electrical drive systems.	1.1	The students will be able to know the drive and the selection process involved in drives.
2.0	To know about the characteristics of motor drives	2.1	The students will be able to understand the characteristics of motor drives
3.0	To know the fundamental of DC motor drives	3.1	The students will be able to understand the operation of the converter, chopper fed dc drive and solve simple problems
4.0	To give exposure to understand the basics concept of AC motor drives.	4.1	The students will be able to study and analyze the speed control of induction motor drive

### UNIT I - INTRODUCTION

Basic Elements – Types of Electric Drives – factors influencing the choice of electrical drives – I curves – Loading conditions and classes of duty – Selection of power rating for drive motors –C



**UNIT II - CONVENTIONAL AND SOLID STATE SPEED CONTROL OF D.C. DRIVES**

Speed control of DC series and shunt motors – Armature and field control- Ward-Leonard or state analysis of the single and three phase converter fed separately excited DC motor drive – 4 quadrant converter / chopper fed drive.

**UNIT III - CONVENTIONAL AND SOLID STATE SPEED CONTROL OF A.C. DRIVES**

Speed control of three phase induction motor – Voltage control- voltage / frequency control – Field weakening mode – Ac voltage Regulator- Voltage / current fed inverter – Rotor control and slip power recovery schemes.

**UNIT IV - DIGITAL CONTROL TECHNIQUES IN SPEED CONTROL OF DRIVES**

Digital techniques in speed control - Advantages and limitations - Microcontroller based control Microprocessor based control of drives-PLC Based drives.

**UNIT V - DESIGN OF CONTROLLERS FOR DRIVES**

Transfer function for DC motor / load and converter – closed loop control with Current and speed voltage control and field weakening mode – Design of controllers; current controller and speed

1. [Dubey G.K](#), "Fundamentals of Electrical Drives", Narosa Publishing House, New Delhi
2. [Bose, B.K.](#), "Modern Power Electronics and AC Drives", Pearson Education (Singapore), Delhi, 2010

**REFERENCES:**

1. [Vedam Subramanyam](#), - Electric Drives: Concepts and Applications, Tata McGraw hill 2011.
2. [Krishnan R.](#), - Electric Motor Drives: Modeling, Analysis and Control, Prentice Hall of India, Delhi, 2010



**Mapping of Course Outcomes and Programme Outcomes**

CO/ PO	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010
C01	3	3	2	0	3	3	0	0	3	0
C02	3	3	3	0	3	3	0	0	3	0
C03	3	3	3	0	2	3	0	0	3	0
C04	3	0	3	0	3	3	0	0	3	0
C05										

**Mapping of Course Outcomes and Program Specific C**

CO/PSO	PS01	PS02	PS03	PS04
C01	3	3	0	2
C02	2	3	0	3
C03	3	3	0	3
C04	3	3	0	3
C05	3	2	0	3



## PROGRAM ARTICULATION MATRIX

## 3.1. C – Program Articulation Matrix Table

(10)

Self Assessment (10)

Table B.3.1.c Correlation between the Courses and the Program Outcomes &amp; Program Specific Outcomes

SEMESTER I																	
Course No.	Course Code & Course name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
C101	17EYA01 - Professional English – I	0	0	0	0	3	0	0	3	3	3	0	3	0	0	3	0
C102	17MYB01 - Calculus and Solid Geometry	3	3	3	3	3	3	3	0	3	0	3	0	3	3	3	3
C103	17PYB01 - Physics for Engineers	3	3	3	3	3	3	0	2	0	0	0	3	2	2	3	2
C104	17CYB02 - Applied Electrochemistry	3	0	3	0	0	3	2	3	3	0	3	3	2	2	3	2
C105	17MECO1 - Engineering Graphics	3	3	3	3	3	3	3	0	0	0	3	3	3	3	3	3



<b>C106</b>	17CSC02 - Python Programming	3	3	3	0	0	0	0	0	3	3	3	0	3	0	3	2
<b>C107</b>	17CSP02 - Python Programming Laboratory	2	3	2	0	3	0	0	0	3	3	3	0	3	3	3	2
<b>C108</b>	17GYP02 - Engineering Practices Laboratory	3	3	3	2	3	3	3	3	3	3	1	3	3	2	0	3

## SEMESTER II

<b>C111</b>	17EYA02 - Professional English – II	0	0	0	0	3	0	0	3	3	3	0	3	0	0	3	0
<b>C112</b>	17MYB02 - Complex Analysis and Laplace Transforms	3	3	3	3	3	3	3	0	3	0	3	0	3	3	0	2
<b>C113</b>	17PYB05 - Physics of Solids	3	2	2	3	0	0	0	3	0	0	0	3	2	1	0	2
<b>C114</b>	17CYB03 - Environmental Science	2	2	2	0	0	3	3	3	3	3	0	0	2	1	2	1
<b>C115</b>	17GYC01 - Basics of Civil and Mechanical Engineering	2	2	3	2	2	3	2	3	3	2	3	3	0	3	0	3
<b>C116</b>	17EEC02 - Electric Circuit Theory	3	3	3	3	3	3	2	3	0	0	1	2	3	3	3	3



<b>C117</b>	17GYP01- Physics and Chemistry Laboratory	2	2	0	3	0	3	2	2	0	0	3	3	2	2	2	2
<b>C118</b>	17EEP01 - Electric Circuits Laboratory	3	3	3	3	3	2	3	3	3	3	1	3	3	3	3	3

## SEMESTER III

<b>C201</b>	17MYB05 - Transforms and Partial Differential Equations	3	3	3	0	0	0	3	0	0	0	0	0	3	3	3	3
<b>C202</b>	17EEC03 - Electronic Devices and Circuits	2	2	3	3	2	3	0	2	0	3	3	2	2	2	0	3
<b>C203</b>	17EEC04 - Electrical Machines I	3	3	2	3	2	3	3	2	0	0	3	2	3	3	2	2
<b>C204</b>	17EEC05 - Field Theory	2	3	3	3	3	2	3	3	0	0	3	1	3	3	3	3
<b>C205</b>	17EEC06 - Power Plant Engineering	1	1	1	0	0	3	3	3	3	2	2	3	1	1	1	1
<b>C206</b>	17ITC03 - Data Structures and Algorithms	1	3	3	3	0	0	0	0	3	3	3	0	2	2	2	2
<b>C207</b>	17EEP02 - Electronic Devices and Circuits Laboratory	2	2	3	3	3	3	0	2	3	3	3	2	2	2	2	2





<b>C208</b>	17EEP03 - Electrical Machines I Laboratory	1	3	3	3	0	3	0	2	0	0	1	2	2	2	2	2
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## SEMESTER IV

<b>C211</b>	17MYB10 - Probability, Statistics and Numerical Methods	3	3	3	3	3	0	0	0	0	0	3	3	3	3	3	3
<b>C212</b>	17EEC07 - Electrical Machines II	1	3	3	3	0	2	0	2	0	0	1	2	2	2	0	2
<b>C213</b>	17EEC08 - Linear Integrated Circuits	2	2	2	3	3	2	0	2	0	0	3	3	2	2	2	2
<b>C214</b>	17EEC09 - Digital Logic Circuits	2	3	3	3	3	0	0	2	3	0	3	2	2	2	2	3
<b>C215</b>	17EEC10 - Transmission and Distribution	1	1	1	1	2	2	2	3	0	2	2	2	3	3	3	3
<b>C216</b>	17ITC08 - Fundamentals of Java Programming	1	2	2	0	0	0	0	0	0	3	3	0	3	3	2	3
<b>C217</b>	17EEX01 - Fundamentals of Fiber Optics and Laser Instrumentation	1	1	1	2	2	0	0	1	3	2	3	2	2	2	0	2
<b>C218</b>	17EEP04 - Electrical Machines II Laboratory	1	2	2	3	3	3	3	1	2	0	1	2	3	2	2	2



<b>C219</b>	17EEP05 - Linear and Digital Integrated Circuits Laboratory	1	3	3	3	3	3	3	1	0	0	1	2	3	3	2	3
<b>SEMESTER V</b>																	
<b>C301</b>	17GEA02 - Principles of Management	0	0	2	3	2	3	3	2	3	3	3	0	0	0	1	1
<b>C302</b>	17EEC11 - Measurements and Instrumentation	2	2	2	3	2	1	0	2	0	0	1	2	3	3	0	2
<b>C303</b>	17EEC12 - Control Systems	3	3	3	3	3	3	2	0	2	3	3	3	3	3	3	3
<b>C304</b>	17EEC13 - Power Electronics	2	2	3	3	3	3	2	0	0	0	3	1	2	2	0	3
<b>C305</b>	17EEC14 - Communication Engineering	1	2	2	2	2	3	0	0	3	3	3	3	2	2	0	2
<b>C306</b>	17ITC12 - Data Base Systems Concepts	3	3	3	0	0	0	0	0	0	3	3	0	3	3	3	3
<b>C307</b>	17EEX10 - Special Electrical Machines	2	2	2	2	3	3	0	3	0	0	1	2	2	2	2	2
<b>C308</b>	17EEP06 - Control and Instrumentation Laboratory	2	2	1	2	1	3	0	0	3	2	3	2	3	3	3	3
<b>C309</b>	17EEP07 - Power Electronics Laboratory	2	2	3	2	1	1	0	0	0	0	1	2	3	3	2	3



## SEMESTER VI

<b>C311</b>	17EEEC15 - Power System Analysis	2	3	2	3	2	1	0	0	1	0	1	2	3	3	0	2
<b>C312</b>	17EEEC16 - Microprocessor and Microcontroller	2	2	3	3	3	3	3	0	0	0	3	3	2	3	0	2
<b>C313</b>	17EEX11 - Bio Medical Instrumentation and its Applications	2	3	2	3	2	3	3	0	0	3	3	0	2	3	0	2
<b>C314</b>	17EEX18 - Power Quality	2	3	2	3	2	3	3	0	0	2	3	2	2	2	3	2
<b>C315</b>	17EEX13 - Power Electronics For Renewable Energy Systems	2	0	2	3	2	0	3	2	0	2	1	3	2	2	0	2
<b>C316</b>	17EEX16 - High Voltage Engineering	1	2	1	2	1	3	0	0	3	2	3	2	2	1	0	2
<b>C317</b>	17ECX16 - Internet of Things and its Applications	3	2	2	3	3	3	2	0	3	2	2	2	2	2	3	2
<b>C318</b>	17CSX31 - Problem Solving and Programming	3	2	3	3	3	2	3	0	2	3	2	2	2	2	2	2
<b>C319</b>	17EYX01 - Effective Communication	0	0	0	0	3	0	0	3	3	3	1	3	0	0	3	0
<b>C320</b>	17EEP08 - Microprocessor and Microcontroller Laboratory	2	3	2	3	3	3	2	2	3	0	3	3	3	2	2	2



SEMESTER VII																	
<b>C401</b>	17EEC17 - Electric Drives and Control	2	2	2	0	3	3	0	0	3	0	3	3	3	2	0	3
<b>C402</b>	17EEC18 - Power System Protection and Switch Gear	2	2	2	2	0	3	0	3	3	3	3	3	2	2	0	2
<b>C403</b>	17EEC19 - Principles of Embedded Systems	2	2	2	3	3	3	2	0	0	0	3	3	2	2	0	2
<b>C404</b>	17EEC20 - Power System Operation and Control	3	3	3	3	2	3	2	2	3	0	1	3	3	3	3	3
<b>C405</b>	17EEX20 - Flexible AC Transmission Systems	2	2	2	3	2	3	0	2	0	0	1	3	3	2	0	2
<b>C406</b>	17EEP09 - Power System Simulation Laboratory	3	3	3	3	3	0	0	2	3	2	3	2	3	3	3	3
<b>C407</b>	17EED01 - Project Work I	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
SEMESTER VIII																	
<b>C411</b>	17EEX22 - Fundamentals of Electric Power Utilization	2	2	2	2	0	3	3	0	0	0	0	3	3	2	0	2
<b>C412</b>	17EED02 - Project Work II	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3



## COURSE ARTICULATION MATRIX

## 3.1. D – Course Articulation Matrix Tables

(5)

Self Assessment (5)

The course outcome mapping is mapped with the program outcomes and program specific outcomes. That is 3- high, 2- moderate, 1 – low mapped with the respective course outcomes for the particular course. The following tables give the mapping for the Program Outcomes and Program Specific Outcomes with the corresponding Course Outcomes. (For sample from semester III to VIII, one course articulation matrix is given in the below tables)

Table B.3.1.d Mapping of CO's with PO's and PSO's

## SEMESTER 3

CO/PO	STATEMENT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
C203.1	The students will be able to understand the generation of EMF and Torque in rotating Machines.	3	3	1	2	0	0	2	2	0	0	2	1	3	2	0	2
C203.2	The students will be able to illustrate the construction and principle of operation and characteristics of DC machines.	3	3	3	3	2	2	3	0	0	0	2	2	3	3	0	2
C203.3	The students will be able to select appropriate DC motor as well as to choose an appropriate method of Speed control for any industrial application.	3	3	3	3	2	3	3	0	0	0	2	2	2	3	0	2
C203.4	The students will be able to identify the transformer parameters from the equivalent circuit	2	3	3	3	2	3	3	0	0	0	2	2	3	3	0	2
C203.5	The students will be able to evaluate the performance of DC machines and transformers	2	2	2	2	0	1	2	2	0	0	1	1	2	2	0	2
<b>C203 (17EEEC04 - ELECTRICAL MACHINES I)</b>		<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>2</b>



## SEMESTER 4

CO/PO	STATEMENT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
C214.1	The students will be able to study number systems and to simplify the mathematical expressions using Boolean functions	2	2	2	3	2	0	0	2	2	0	2	1	2	1	2	3
C214.2	The students will be able to design combinational logic circuits	3	3	3	2	3	0	0	1	3	0	3	2	2	3	1	3
C214.3	The students will be able to analyze and design various synchronous circuits	2	3	3	3	3	0	0	2	3	0	3	1	2	3	2	3
C214.4	The students will be able to implement the asynchronous circuits	1	3	2	2	2	0	0	2	2	0	3	2	1	1	1	2
C214.5	The students will be able to expose the concept of memory devices and logic families	1	2	3	3	3	0	0	2	3	0	2	2	2	3	2	3
<b>C214 (17EEEC09- DIGITAL LOGIC CIRCUITS)</b>		<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>

## SEMESTER 5

CO/PO	STATEMENT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
C303.1	The students will be able to understand the use of transfer function models for analysis physical systems and introduce the control system	2	3	3	2	2	2	2	0	2	2	3	3	3	2	3	3
C303.2	The students will be able to provide adequate knowledge in the time response of systems and steady state error analysis.	3	3	3	3	3	3	1	0	1	3	2	2	3	3	2	2



<b>C303.3</b>	The students will be able to accord basic knowledge in obtaining the open loop and closed-loop frequency responses of systems.	2	3	3	2	3	2	2	1	1	2	3	2	3	2	3	3
<b>C303.4</b>	The students will be able to introduce stability analysis and design of compensators.	3	3	3	2	2	3	1	0	2	3	3	3	3	3	2	2
<b>C303.5</b>	The students will be able to introduce state variable representation of physical systems and study the effect of state feedback	3	3	3	2	3	3	2	0	2	3	2	3	3	3	3	3
<b>C303 (17EEEC12 – CONTROL SYSTEMS)</b>		<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>

**SEMESTER 6**

CO/PO	STATEMENT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
<b>C311.1</b>	The students will be able to describe the concept of power system	2	3	2	1	2	0	0	0	1	0	0	1	2	1	0	1
<b>C311.2</b>	The students will be able to Infer about Power flow analysis	2	3	0	3	2	0	0	0	1	0	0	1	3	3	0	2
<b>C311.3</b>	The students will be able to analyze various types of symmetrical faults.	2	3	2	3	0	2	0	0	1	0	0	1	3	3	0	2
<b>C311.4</b>	The students will be able to interpret the various types of unsymmetrical faults	2	0	2	3	2	1	0	0	1	0	0	2	3	3	0	2
<b>C311.5</b>	The students will be able to analyze the stability of the power system	2	0	2	3	2	0	0	0	0	0	3	3	3	3	0	2
<b>C311 (17EEEC15 – POWER SYSTEM ANALYSIS)</b>		<b>2</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>2</b>



## SEMESTER 7

CO/PO	STATEMENT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
C402.1	The students will be able to know the layout of a typical substation	2	0	3	3	3	3	1	2	3	2	3	2	2	2	0	3
C402.2	The students will be able to Select Fuses and Circuit breakers for a given situation	2	2	0	0	0	2	0	3	3	3	2	3	3	2	0	2
C402.3	The students will be able to acquire knowledge to understand the principles of different types of protective relays	2	2	3	0	0	3	0	2	2	2	3	3	2	2	0	1
C402.4	The students will be able to gain adequate knowledge in selection of different types of protective schemes	2	0	0	3	0	2	0	3	3	3	3	3	2	2	0	2
C402.5	The students will be able to know the causes of abnormal operating conditions	0	1	3	3	0	3	1	3	2	3	2	2	1	2	0	2
<b>C402 (17EEEC18 – POWER SYSTEM PROTECTION AND SWITCH GEAR)</b>		<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>2</b>

## SEMESTER 8

CO/PO	STATEMENT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
C411.1	The students will be able to ensure ideas about the types of energy and auditing techniques.	3	0	2	3	0	3	3	0	0	0	0	3	3	1	0	0





<b>C411.2</b>	The students will be able to suggest methodologies for energy savings	0	3	0	0	0	3	2	0	0	0	0	2	2	2	0	1
<b>C411.3</b>	The students will be able to learn about the various methods for energy management & power quality analyses.	0	2	2	2	0	2	3	0	0	0	0	3	3	2	0	3
<b>C411.4</b>	The students will be able to learn about the lighting systems & cogeneration	2	0	0	0	0	3	3	0	0	0	0	3	2	3	0	3
<b>C411.5</b>	The students will be able to know the basics of energy economics.	3	2	3	0	0	2	3	0	0	0	0	2	3	0	0	2
<b>C411 (17EEX22 - FUNDEMENTALS OF ELECTRIC POWER UTILIZATION)</b>		<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>2</b>

**Note:** Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

*If there is no correlation, put “-”*

1. *Add more columns for PSOs*
2. *The table 3.1 can be prepared in landscape mode if required.*



### 3.2 Attainment of Course Outcomes

(75)

Self Assessment (75)

#### 3.2.1 Describe the assessment tools and processes used to gather the data upon which the evaluation of Course Outcome is based

(10)

Self Assessment (10)

#### 3.2.1 A List of Assessment Processes

(2)

Self Assessment (2)

The Assessment of course outcome for theory subjects are based on

- **Continuous Assessment Tests**

This type of performance assessment is carried out during the examination sessions which are held thrice for a course in every semester. Each and every CAT is focused in attaining the course outcomes.

- **Assignments**

The assignment is a qualitative performance assessment tool designed to assess students' knowledge of engineering practices based on application concerned with and problem solving.

- **Online Tests**

This type of performance assessment is carried out through web-based examination system where the online test is taken by multiple choice based which are held thrice in a semester. Each and every test is focused in attaining the course outcomes.

- **End Semester Examinations**

End Semester examination is a metric for assessing whether the COs are attained or not. Examination is more focused on attainment of course outcomes using a descriptive exam.

- **Assessment for Laboratory**

Laboratory class course outcomes are evaluated based on the student's performance in regular lab classes, Model Examination and End Semester Examination performance. The model exam assessment is carried out during the practical examination sessions which are held twice in every semester for each lab course. Each and every assessment is focused in attaining the course outcomes of lab courses.



- **Project review & presentation**

This type of performance assessment is carried out in the final year in project work phase I and phase II are evaluated based on the presentations in Project Reviews and End Semester Viva Voce Examinations. Each and every review is focused in attaining the program outcomes. C

## 2. Indirect Assessment Tools

- Course End Survey

### 3.2.1 B The Quality / Relevance of assessment processes and tools used

(8)

Self Assessment (8)

#### Assessment Tool

The PO and PSO are evaluated using software that simplifies CO, PO and PSO attainment calculation. Furthermore the Microsoft excel programme is being used to calculate the attainment level of course outcomes, program outcomes and program specific outcomes course by course. R

#### 1. Direct Assessment Process

The approach in evaluating the attainment of CO is using existing data from students' marks. This method is chosen because of the information is readily available and it is common for most courses. In general, assessment methods used are grouped into 4 categories: (1) Continuous Assessment Tests (CAT) (2) Assignments (3) Online Tests (4) End Semester Examination (ESE). Each of these categories contributes a certain portion of the marks into some of the COs. I

**Direct CO Attainment = 60% Weightage of End Semester Examination + 30% of CAT + 5% of Assignment + 5% of Online test**

#### 2. Indirect Assessment Process

Indirect assessment strategies are calculated from course end survey reports collected at the end of every semester.

After collection of individual survey forms, the marks for COs are calculated based on the following formula:

**CO attainment = Average of (CO1+CO2+CO3+CO4+CO5)**



**Each CO calculation = [(No. of Students High x 3+ No. of Students Moderate x 2+ No. of Students Satisfactory x 1) / (No of Students)]**

The above formula is used to calculate the marks for indirect COs of all the courses in the curriculum in the respective regulation.

**Final Overall CO Attainment**

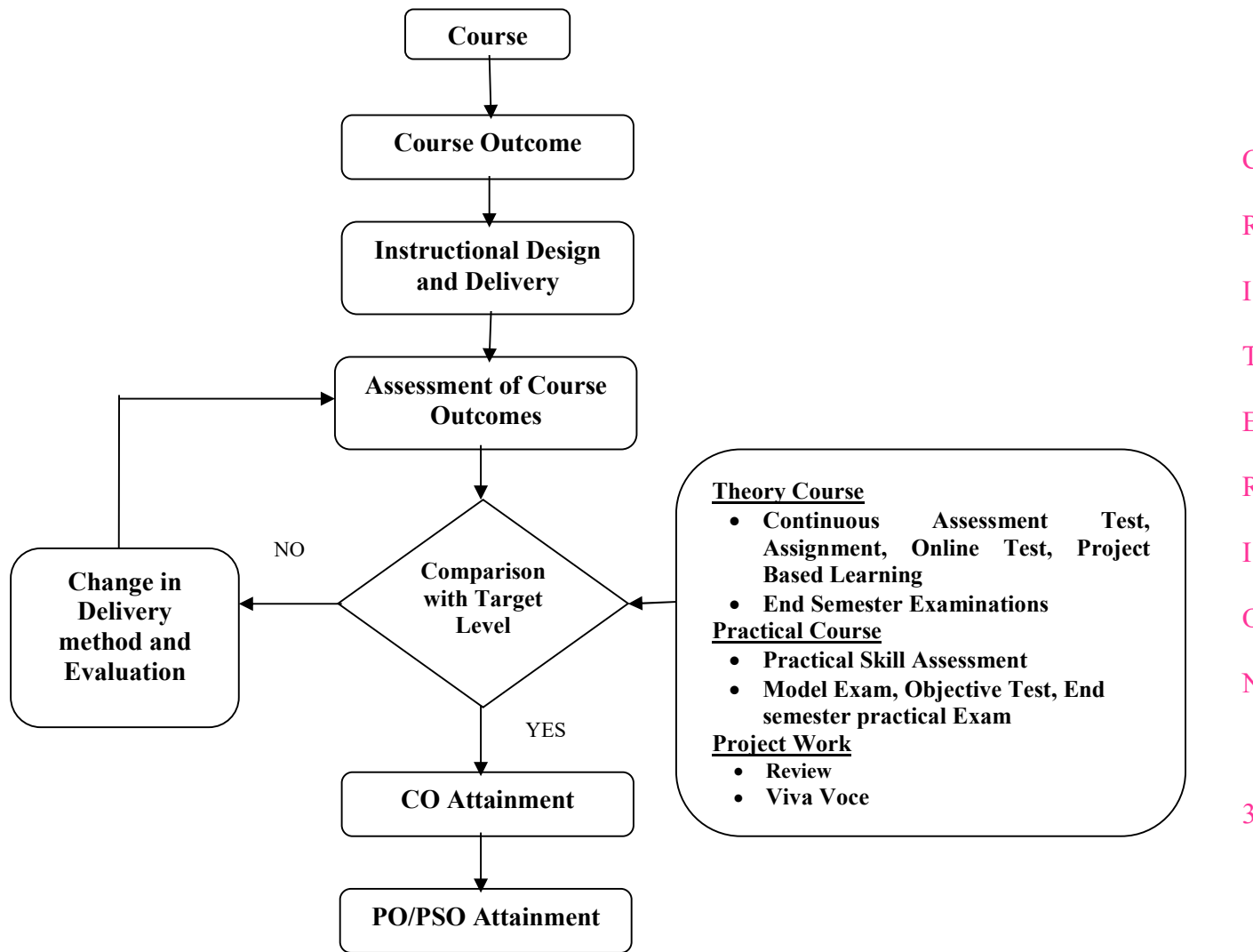
Final CO attainment for each course is calculated based on the contribution of direct and indirect assessments as per the weightage given below:

- 1. Direct Assessment (80%)
- 2. Indirect Assessment (20%)

**Final CO attainment level = [(80% Direct assessment + 20 % Indirect assessment)/ 100]**

C  
R  
I  
T  
E  
R  
I  
O  
N  
  
3





C  
R  
I  
T  
E  
R  
I  
O  
N  
3  
3

Figure B. 3.2.1.a Assessment method to assess the attainment of the Course Outcomes



**Table B 3.2.1.a Ratio of Internal and End Semester Mark Split up for various Courses**

S.No.	Category of Course	Internal Mark	End Semester Exam (ES) Marks	Total Marks
a.	Theory course	40	60 R	100
b.	Embedded course	40	55 I	100
c.	Laboratory courses /Project work	50	50 T	100
d.	Employability Enhancement courses(EEC), Mini project, Human excellence courses, etc.	100	- E	100

**Table B 3.2.1.b Internal Assessment Process for Theory Courses for R17**

S. No	Components for Continuous Assessment Marks	Syllabus Coverage for the test	Duration of the test in Hrs.	Marks (max.)
1	Continuous Assessment I	1- 2.5 units	1.5Hrs.	N 50 Marks is reduced to 15 2x15 = 30
2	Continuous Assessment II / Project Based Learning Review	2.5 -5 units	1.5Hrs.	
4	Assignment I	1- 2.5 units	-	3 2.5
5	Assignment II	2.5 -5 units	-	2.5
6	Online Test I	1- 2.5 units	1	2.5
7	Online Test II	2.5 -5 units	1	2.5
<b>TOTAL</b>				40



Table B 3.2.1.c Internal Assessment Process for Laboratory Courses for R17

S. No.	Components for Internal Mark	Marks (max.)
1	Record Marks (Average out of 100)	<u>Record Mark + Model Mark (I + II)</u>
2	Model Exam I (Out of 50)	
3	Model Exam II (Out of 50)	
<b>TOTAL</b>		50

Table B 3.2.1.d Internal Assessment for Embedded Courses for R17

S.No.	Components for Continuous Assessment Marks	Syllabus Coverage for the test	Duration of the test in Hrs.	Marks (max.)
1	Continuous Assessment I	1- 2.5 units	1.5Hrs.	2x7.5 = 15
2	Continuous Assessment II	2.5 -5 units	1.5Hrs.	
5	Continuous assessment of all experiments	All Experiments	-	5
6	End Semester Exam for Lab	All Experiments	3Hrs	20
<b>TOTAL</b>				40



Table B 3.2.1.e Scheme of Assessment for Non-Embedded Courses for R17

S.No.	Course Type	Mark Breakup*										
		Continuous Assessment Components								End Semester Components		
		CAT 1	CAT 2	Other Assessments #	Average of marks for all Experiments & viva voce	Model exam / report	Zeroth Review	Review 1	Review 2	Written exam	Practical exam and Viva-voce	Capstone Project Report and Viva-voce, Project Outcome & Project Report
1	Theory	15 (50)	15 (50)	10	-					60 (100)	I	
2	Lab				40	10					C 50 N (100)	
3	Project						10 (20)	20 (40)	20 (40)			50 (100)

\*Mark weightage (outside brackets) and maximum marks for the exam conducted (inside brackets). The maximum marks could vary depending on the credit component for lecture/ laboratory/ project.

# Open book test; Online Test, Cooperative learning report, Assignment; Journal paper review, Group Presentation, Project report, Poster Presentation, Prototype or Product Demonstration, etc. (as applicable).





Table B 3.2.1.f Assessment Process for Theory Embedded Courses for R17

S.No.	Course Type	Mark Breakup*											
		Continuous Assessment Components							End Semester Components				
		CAT (Best of 3)	Other Assessments #	Average of all Experiments	End Semester Exam for Lab	Review 1	Review 2	Project Report	Written exam	Practical exam	Exam Viva-		
1	Theory	15 (50)									60 (100)		
	Lab			5	20								
Component Weightage ratio for final mark calculation			The final mark of a student for an embedded course will be the weighted average of the marks obtained in the theory and lab components, with weights proportional to the credits of the corresponding component.										

\* Mark weightage (outside brackets) and maximum marks for the exam conducted (inside brackets).

The maximum marks could vary depending on the credit for lecture/ laboratory/ project.



Table B 3.2.1.g Assessment Process for Practical Courses for R17

S.No.	Description	Weightage
<b>1</b>	<b>Continuous Assessment Test (CAT)</b>	
	a. Record Max.marks (100)	<u>RecordMarks + Model Exam (I + II)</u> 4
	b. Model Exam I Max.marks (50)	
	c. Model Exam II Max.marks (50)	
	d. Total	50
<b>2</b>	<b>End Semester Exam Marks (ESM)</b>	
	a. Practical Examination Max.marks (100)	50
	<b>Total</b>	<b>100</b>



**3.2.2 Record the attainment of Course Outcomes of all courses with respect to set attainment levels****(65)****Self Assessment (65)**

*Program shall set Course Outcome attainment levels for all courses.*

C

C

R

***Measuring Course Outcomes attained through Semester End Examinations (SEE)***

R

I

*Target may be stated in terms of percentage of students getting equal or more than the target set by the Program in SEE for each CO.*

I

T

***Measuring CO attainment through Cumulative Internal Examinations (CIE)***

T

E

E

R

*Target may be stated in terms of percentage of students getting more than class average marks or set by the program in each of the associated COs in the assessment instruments (midterm tests, assignments, mini projects, reports and presentations etc. as mapped with the COs)*

R

I

I

O

The attainment of course outcome is evaluated under two categories

O

N

- Continuous Assessment
- End semester Assessment


N

3

3



## CAT Attainment calculation:

 <b>NANDHA ENGINEERING COLLEGE, PERUNDURAI, ERODE-638052</b> <b>DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING</b> <b>TEST-1 ANALYSIS</b> <b>COURSE NAME &amp; CODE :17EEEC17-ELECTRIC DRIVES AND CONTROL</b> <b>FACULTY NAME:Dr.G.Ramani,Prof/EEE &amp; Dr.P.Jamuna,ASP/EEE</b> <b>Each question Expected Level of attainment - 75%</b> <b>TOTAL STRENGTH = 77</b>														
ROLL NO	A1(1)	A2(1)	A3(1)	A4(1)	A5(1)	B1(2)	B2(2)	B3(2)	B4(2)	B5(2)	C1(7)	D1(14)	D2(10)	D2(4)
Expected Marks to	0.75	0.75	0.75	0.75	0.75	1.5	1.5	1.5	1.5	1.5	5.25	10.5	7.5	3
18EE002	0	1	0	0	0	2	1	2	0	1		14	8	3
18EE003	1	1	1	1	1	2	1	2	1	2	3	11		
18EE004	1	1	1	1	1	2	2	2	2	0	6	12	5	3
18EE005	1	1	1	1	1	2	2	2	2	1	7	13		
18EE006	0	1	1	1	0	1	0	2	0	0	5	13	5	4
18EE007	1	1	0	1	1	1	2	2		1	3		5	3
18EE008	1	1	0	0	0	2	2	2	0	2	4	14	6	3
18EE009	0	0	1	0	1	1	1	2	2	2	4	13	7	2
18EE010	0	1	1	0	1	2	2	2	2	0	6	14	2	2
18EE011	1	1	1	1	1	2	2	2	2	2	7	14	5	4
18EE012	0	1	1	1	0	2	2	2	2	2	5	14	4	4
18EE013	0	0	0	0	0	1	2	1	2	2	5	11		4
18EE014	1	1	1	1	1	2	2	2	2	2	7	14	6	3
18EE020	1	1	1	0	0	2	1	2	1	2	6	12	7	3
18EE021	1	1	1	0	0	0	0	2	1	0	2	12	5	4
18EE022	1	0	0	1	0	2		1		2	5	12		
18EE023	1	0	0	1	0	2	2	2	0	0	6	5		
18EE024	1	0	1	1	1	1	0	0	0	0	3	14	4	1
18EE025	0	0	1	0	1	1	1	2	0	2	6	11	0	2
18EE026	1	0	1	1	1	1	0	2	0	0	4	13		




18EE029	1	1	0	1	1	1	1			2	2	11		
18EE030	1	1	0	1	0	2	2	0	0	1	4		2	3
18EE031	1	1	1	1	1	1	2	1	0	0	5	8	5	
18EE032	1	0	1	1	1	0	0	2	2	2	6	12	7	4
18EE033	0	0	0	0	0	0	0	0	0	0	4		3	
18EE034	0	1	0	0	1	2	2	2	2	2	6	14		
18EE035	0	0	0	0	0	2	1	2	0	1	6	12		
18EE036	1	0	1	0	1	2		1	0	2	1	13		4
18EE037	0	1	0	0	1	2	2	2	2	2	7	14		
18EE038	0	0	0	0	0	1		0			1	1		
18EE039	1	0	0	1	1	2	2	1	2	0	4	13		
18EE040	1	1	1	0	0	2		2	1	2	6	10	2	3
18EE041	0	0	0	1	0	0	0		0	2	4	13	6	0
18EE042	1	1	0	1	0	2	2	2	0	2	7	14		
18EE043	1	1	1	1	0	2		1	0	1	5	13		
18EE044	1	1	0	1	0	2	2		0	2	4	12	2	
18EE045	1	1	0	1	0	2	1	1	0	0	4	13	1	
18EE046	1	0	0	1	0	2		2	2	2	6		5	4
18EE047	1	1	0	1	1	2	2	2	2	2	4	7	7	4
18EE048	1	1	0	1	0	2	0		0	2	4	11	4	3
18EE049	0	1	0	1	0	2	1	0	0	2	6	13		
18EE050	1	1	0	1	1						4	12	5	0
18EE056	1	1	0	1	0	0	1	2	2	0	6	13	4	3
18EE057	1	0	0	1	0	1	0			0	4	12	6	
18EEL03	1	0	1	0	0		0			2	3	13	8	
18EEL04	1	1	1	1	0	2	2	0	0	1	5			
18EEL05	1	1	1	0	0	2	1	1	0	0	5	10	6	
18EEL06	1	1	0	0	0		1	1		2	2	4		
18EEL07	1	1	1	0	1	2	2	2	1	0	5	9		
18EEL08	1	1	1	1	1	2	2	2	2	2	7	13	7	4



18EEL11	1	1	1	1	1	0	1	1	2	2	6	12			
18EEL12	1	1	1	0	0	1	2	2	0	1	5	11			
18EEL13	1	0	0	0	1	2			2		7	12			
18EEL14	0	0	0	0	0	0	0		0		6	11			
18EEL15	0	0	0	0	1	1	0	0	0	2	4	11			
18EEL18	0	1	0	0	0	2	2	1	0	2	6	2	1	8	
18EEL20	0	1	1	1	1	2	2	2	2	2	6			6	
18EEL21	1	0	0	0	0	1	0	0	0	2	4	12			
18EEL22	1	0	1	1	1						4	11	3	3	
18EEL23	1	0	0	1	0	0	0	0	0	0	0				
18EEL24	1	1	1	0	1	2	1	2	2	2	4	13	7		
18EEL25	0	0	0	1	1	2	0	2	0	2	6	12	5	4	
18EEL26	1	0	0	1	0	2	1	2	2	2	6		9		
18EEL27	1	1	0	1	0		0		0	0	4	4			
No of students scores upto expected level (75%)	54	47	39	45	38	42	30	44	27	42	31	54	4	30	
<b>2. Course Outcome attainment level indicator</b>															
						3					2				
Range of attainment						>70					50-70				
Mapping with CO	CO1	CO1	CO2	CO2	CO3	CO1	CO1	CO2	CO2	CO3	CO1	CO1	CO2	CO1	
Attainment level of each CO	3	2	2	2	2	2	1	2	1	2	1	3	1	1	
ATTAINMENT LEVEL OF ALL CO	CO1	CO2	CO3												
	1.86	1.50	1.50												



## Assignment attainment:

 NANDHA ENGINEERING COLLEGE, PERUNDURAI, ERODE-638001 DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING ASSIGNMENT I ANALYSIS COURSE NAME & CODE : 17EE17-ELECTRIC DRIVES AND CONTROL SYSTEMS FACULTY NAME: Dr.G.Ramani,Prof/EEE & Dr.P.Jamuna,ASP/EEE Each question Expected Level of attainment - 75% TOTAL STRENGTH =				
ROLL NO	A1(5)	A2(5)	A3(5)	A4(10)
Expected Marks to attainment	3.75	3.75	3.75	7.5
18EE002	5	5	5	10
18EE003	5	5	5	10
18EE004	5	5	5	10
18EE005	5	5	5	10
18EE006	5	5	5	10
18EE007	5	5	5	10
18EE008	5	5	5	10
18EE009	5	5	5	10
18EE010	5	5	5	10
18EE011	5	5	5	10
18EE012	5	5	5	10
18EE013	5	5	5	10
18EE020	5	5	5	10
18EE021	5	5	5	10
18EE022	5	5	5	10



18EE024	5	5	5	10
18EE025	5	5	5	10
18EE026	5	5	5	10
18EE027	5	5	5	10
18EE029	5	5	5	10
18EE030	5	5	5	10
18EE031	5	5	5	10
18EE032	5	5	5	10
18EE033	5	5	5	10
18EE034	5	5	5	10
18EE035	5	5	5	10
18EE036	5	5	5	10
18EE037	5	5	5	10
18EE038	5	5	5	10
18EE039	5	5	5	10
18EE040	5	5	5	10
18EE041	5	5	5	10
18EE042	5	5	5	10
18EE043	5	5	5	10
18EE044	5	5	5	10
18EE045	5	5	5	10
18FF046	5	5	5	10
18EE052	5	5	5	10
18EE053	5	5	5	10
18EE054	5	5	5	10
18EE055	5	5	5	10
18EE056	5	5	5	10






18EEL03	5	5	5	10
18EEL04	5	5	5	10
18EEL05	5	5	5	10
18EEL06	5	5	5	10
18EEL07	5	5	5	10
18EEL08	5	5	5	10
18EEL09	5	5	5	10
18EEL10	5	5	5	10
18EEL11	5	5	5	10
18EEL12	5	5	5	10
18EEL13	5	5	5	10
18EEL14	5	5	5	10
18EEL15	5	5	5	10
18EEL18	5	5	5	10
18EEL20	5	5	5	10
18EEL21	5	5	5	10
18EEL22	5	5	5	10
18EEL23	5	5	5	10
No of students scores upto expected level (75%)	77	77	77	77
% of scoring above the attainment level	100	100	100	100
<b>2. Course Outcome attainment level indicator</b>				
	3	2	1	
Range of attainment		>70	50-70	<50
Mapping with CO	CO1	CO1	CO1	CO2
Attainment level of	3	3	3	3
ATTAINMENT LEVEL	CO1	CO2		



## Online Test Attainment:

 NANDHA ENGINEERING COLLEGE, PERUNDURAI, ERODE-63805 DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING <b>ONLINE TEST-1 ANALYSIS</b> <b>COURSE NAME &amp; CODE :17EE17-ELECTRIC DRIVES AND CON</b> <b>FACULTY NAME: Dr.G.Ramani,Prof/EEE&amp; Dr.P.Jamuna,ASP/E</b> <b>Each question Expected Level of attainment - 75%</b>									
TOTAL STRENGTH =					77				
ROLL NO	A1(1)	A2(1)	A3(1)	A4(1)	A5(1)	A6(1)	A7(1)	A8(1)	A9(1)
<b>Expected Marks to attainmen</b>	<b>0.75</b>	<b>0.75</b>	<b>0.75</b>	<b>0.75</b>	<b>0.75</b>	<b>0.75</b>	<b>0.75</b>	<b>0.75</b>	<b>0.75</b>
18EE002	1	1	1	1	1	1	1	1	1
18EE003	1	1	1	1	1	1	1	1	1
18EE004	1	1			1	1	1	1	
18EE005	1	1	1	1	1	1	1	1	
18EE006	1	1	1	1	1	1	1		
18EE007	1	1			1	1	1	1	
18EE008	1	1			1	1	1	1	
18EE009	1	1	1	1	1	1	1	1	
18EE010	1	1			1	1	1	1	
18EE011	1	1			1	1	1	1	
18EE012	1	1	1	1	1	1	1	1	
18EE013	1	1	1	1	1	1	1		
18EE020	1	1			1	1	1	1	
18EE021	1	1			1	1	1	1	
18EE022	1	1	1	1	1	1	1	1	



18EE020	1	1			1	1	1	1
18EE021	1	1			1	1	1	1
18EE022	1	1	1	1	1	1	1	1
18EE023	1	1	1	1	1	1	1	1
18EE024	1	1	1	1	1	1	1	
18EE025	1	1	1	1	1	1	1	1
18EE026	1	1		1	1	1	1	
18EE027	1	1	1	1	1	1	1	1
18EE029	1	1	1	1	1	1	1	1
18EE030	1	1	1	1	1	1	1	1
18EE031	1	1			1	1	1	1
18EE032	1	1	1	1	1	1	1	
18EE033	1	1	1	1	1	1	1	1
18EE034	1	1	1	1	1	1	1	1
18EE035	1	1			1	1	1	1
18EE036	1	1	1	1	1	1	1	1
18EE037	1	1	1	1	1	1	1	1
18EE038	1	1	1	1	1	1	1	
18EE039	1	1	1	1	1	1	1	
18EE040	1	1	1	1	1	1	1	
18EE041	1	1	1	1	1	1	1	1
18EE047	1	1	1	1	1	1	1	1
18EE048	1	1	1	1	1	1	1	
18EE049	1	1			1	1	1	1
18EE050	1	1	1	1	1	1	1	
18EE051	1	1	1	1	1	1	1	



18EE053	1	1	1	1	1	1	1	1
18EE054	1	1	1	1	1	1	1	
18EE055	1	1			1	1	1	1
18EE056	1	1	1	1	1	1	1	1
18EE057	1	1	1	1	1	1	1	1
18EEL03	1	1	1	1	1	1	1	1
18EEL04	1	1	1	1	1	1	1	1
18EEL05	1	1			1	1	1	1
18EEL06	1	1	1	1	1	1	1	
18EEL07	1	1	1	1	1	1	1	1
18EEL08	1	1	1	1	1	1	1	1
18EEL09	1	1			1	1	1	1
18EEL10	1	1	1	1	1	1	1	1
18EEL11	1	1			1	1	1	1
18EEL12	1	1			1	1	1	1
18EEL13	1	1			1	1	1	1
18EEL14	1	1	1	1	1	1	1	1
18EEL15	1	1	1	1	1	1	1	1
18EEL18	1	1	1	1	1	1	1	
18EEL20	1	1	1	1	1	1	1	1
18EEL21	1	1	1	1	1	1	1	
18EEL22	1	1	1	1	1	1	1	1
No of students scores upto expected	77	77	53	54	76	77	77	58



% of scoring above the attainment level	100	100	68.83	70.13	98.7	100	100	75.32
<b>2. Course Outcome attainment level indicator</b>								
						3	2	
Range of attainment						>70	50-70	
Mapping	CO1	CO1	CO1	CO1	CO1	CO2	CO2	CO2
Attainment	3	3	2	3	3	3	3	3
ATTAINMENT LEVEL	CO1	CO2						

End Semester Attainment:

NANDHA ENGINEERING COLLEGE, ERODE-638052		
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEER		
END SEMESTER MARK ATTAINMENT		
COURSE NAME & CODE :17EEEC17-ELECTRIC DRIVES AND CONT		
FACULTY NAME: Dr.G.Ramani,Prof/EEE& Dr.P.Jamuna,ASP/EEE		
Overall Expected % Level of Attainment : 75%		
TOTAL STRENGTH =		77
ROLL NO	Student Name	Grade (O=10, A+=9, A=8
18EE002	ABISHEK P	A
18EE003	ARUL PRAKASH S	A+
18EE004	ARUNA E	A+
18EE005	BALAKUMARAN S	A+
18EE006	BHARANIDHARAN M	A+
18EE007	CHANDRAPRAKASH R	B+
18EE008	DEEPAK ADVANTH A	A+



18EE012	DHIYANESH T	A+
18EE013	DINESH KUMAR S	A+
18EE014	DIVYA A	O
18EE015	DIVYARANI R	O
18EE016	GOBIKA M	A+
18EE017	GOKUL A K	A+
18EE018	GOKUL B	A
18EE019	GOKUL C	A+
18EE020	GOKULRAJA S	A
18EE021	HARISH VISHNU V	A
18EE022	JAYARAM S	A
18EE023	KALAIKUMAR A	A
18EE024	KARTHIKEYAN M	A+
18EE025	KAVIARASU R	A
18EE026	KAVIN KUMAR R	A+
18EE027	MADHU PRANESH S P	A+
18EE029	MANICKA VASAGAM D	A+
18EE030	MANIKANDAN R	A
18EE031	MANOJ KUMAR S	A
18EE032	MANORANJINI C	A+
18EE033	MATHIVANAN D	A
18EE039	POOMATHI S	A+
18EE040	POORNIMA E	A
18EE041	PRANAV RAKHU D D	A+



18EE042	PREMNATH S	O
18EE043	ROOBAN SANKAR M	A+
18EE044	SABARINATH A	A+
18EE045	SAIRAM T	A+
18EE046	SAMINATHAN M	A+
18EE047	SAMUEL J	A
18EE048	SARUN D	A
18EE049	SATHISH K	A+
18EE050	SELVAKAMALESHWAR	A+
18EE051	SELVAKUMAR K	A
18EE052	SHARMILA R	A+
18EE053	SNEKA S	A+
18EE054	SOWNTHARRAJ J	A+
18EE055	SRINITHI R	A+
18EE056	SUJITH P	A+
18EE057	VASIMABBAS M	A
18EEL03	DEPPANKUMAR S	A
18EEL04	DHINESH KUMAR S	A
18EEL05	GANESH.M	A+
18EEL06	GOKUL M	A
18EEL07	GOKUL S	A+
18EEL13	JOTHISHANKARRAJ M	A
18EEL14	KARTHIKEYAN G	A
18EEL15	KAVIN L	A+
18EEL18	NEELAKANDA PILLAI P I	A+




18EEL21	PRAVEENKUMAR S	A
18EEL22	SADHASIVAM M	A
18EEL23	SARWESWARAN K	A
18EEL24	SHIBIN KOSHY	A+
18EEL25	VINOTHRAJ.E	A
18EEL26	YOGESHWARAN R	A+
18EEL27	YUVARAJHAN D	A+
No of students scores upto expected level		76
% of scoring above the attainment level, Total appeared for Test		99
2. Course Outcome attainment level indicator		
	3	2
Range of attainment	> 70	50 - 70
Satisfaction attainment level based on level indicator	3	





Course end survey:

 <b>NANDHA ENGINEERING COLLEGE, PERUNDURAI, ERODE-638052</b> <b>DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING</b> <b>COURSE END SURVEY</b> <b>COURSE NAME &amp; CODE :17EEEC17-ELECTRIC DRIVES AND CONTROL</b> <b>FACULTY NAME: Dr.G.Ramani,Prof/EEE&amp; Dr.P.Jamuna,ASP/EEE</b>				
Reg. No.	The students will be able to know the drive and the selection process involved in drives.	The students will be able to understand the characteristics of motor drives	The students will be able to understand the operation of the converter, chopper fed dc drive and solve simple problems	The students will be able to study and analyze the speed control of induction motor drive.
18EE002	3	3	3	2
18EE003	3	2	3	3
18EE004	3	3	3	2
18EE005	3	3	3	3
18EE006	3	3	2	3
18EE007	3	3	2	3
18EE008	3	3	3	3
18EE009	2	3	2	2
18EE010	3	3	3	3



18EE022	3	3	2	3
18EE023	2	2	2	2
18EE024	1	3	3	3
18EE025	2	2	3	3
18EE026	3	3	3	3
18EE027	3	3	3	2
18EE029	2	2	2	2
18EE030	3	3	3	2
18EE031	3	3	3	3
18EE032	2	2	3	2
18EE033	2	2	2	2
18EE034	3	3	3	3
18EE035	3	3	3	3
18EE036	3	2	2	3
18EE037	2	2	2	2
18EE038	3	3	3	3
18EE039	3	3	3	3
18EE040	3	2	3	1
18EE041	1	3	1	2
18EE042	1	2	3	2
18EE043	3	3	3	3
18EE044	2	2	2	1
18EE050	3	3	3	3
18EE051	3	3	3	3
18EE052	3	3	3	3



18EE054	2	2	2	2
18EE055	3	3	3	3
18EE056	2	2	1	2
18EE057	3	3	3	3
18EEL03	3	1	3	1
18EEL04	2	2	2	1
18EEL05	3	3	3	3
18EEL06	3	3	3	3
18EEL07	2	2	2	2
18EEL08	3	3	3	3
18EEL09	3	3	3	3
18EEL10	2	2	2	2
18EEL11	3	3	3	3
18EEL12	3	3	3	3
18EEL13	3	2	2	3
18EEL14	2	2	2	2
18EEL15	3	3	3	3
18EEL18	3	3	3	3
18EEL20	3	2	3	1
18EEL21	1	3	1	2
18EEL22	1	2	3	2
18EEL23	3	3	3	3



Over all Attainment:

NANDHA ENGINEERING COLLEGE, ERODE-638052												
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING												
OVER ALL ATTAINMENT												
COURSE NAME & CODE :17EE17-ELECTRIC DRIVES AND CONTROL												
FACULTY NAME: Dr.G.Ramani,Prof/EEE & Dr.P.Jamuna,ASP/EEE												
	ATTAINMENT %											
DIRECT ASSEMENT	CO1	CO2	CO3	CO4	CO5							
CAT 1	1.86	1.50	1.50									
CAT 2			2.00	1.00	1.4							
AVERAGE OF CAT	1.86	1.50	1.75	1.00	1.43							
Assignment 1	3.00	3.00										
Assignment2			3.00	3.00	3.00							
AVERAGE OF ASSIGNMENT	3.00	0.00	3.00	3.00	3.00							
OLT1	2.80	3.00	0.00									
OLT2			3.00	2.60	2.00							
AVERAGE OF OLT	2.80	3.00	1.50	2.60	2.00							
CO ATTAINMENT(3) (30% of CAT + 5% of Assignment + 5% of OLT)	0.85	0.60	0.75	0.58	0.68							
End Sem(3)	3	3	3	3	3							
60% END SEM + 40% CAT	2.65	2.40	2.55	2.38	2.48							
<b>CO-PO-PSO Atticulation Matrix</b>												
CO No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
	a	b	c	d	e	f	g	h	i	j	k	l
1	3	3	2	0	3	3	0	0	3	0	3	2
2	3	3	3	0	3	3	0	0	3	0	3	3
3	3	3	3	0	2	3	0	0	3	0	3	3
4	3	0	3	0	3	3	0	0	3	0	2	3
5	0	3	3	0	3	2	0	0	2	0	3	3
AVERAGE OUT OF 3	2	2	3	0	3	3	0	0	3	0	3	3
<b>PO &amp; PSO Attainment %</b>												
CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
2.63	2.63	2.63	1.75	0.00	2.63	2.63	0.00	0.00	2.63	0.00	2.63	1.75
2.58	2.58	2.58	2.58	0.00	2.58	2.58	0.00	0.00	2.58	0.00	2.58	2.58
2.58	2.58	2.58	2.58	0.00	1.72	2.58	0.00	0.00	2.58	0.00	2.58	2.58
2.45	2.45	0.00	2.45	0.00	2.45	2.45	0.00	0.00	2.45	0.00	1.64	2.45
2.57	0.00	2.57	2.57	0.00	2.57	1.71	0.00	0.00	1.71	0.00	2.57	2.57



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Table. B. 3.2.2.a Attainment of courses

2018 – 2022						
SEMESTER I						
Course	END SEM ATTAINMENT	CAT ATTAINMENT	ASSIGNMENT ATTAINMENT	ONLINE ATTAINMENT	OVERALL ATTAINMENT	REMARKS
C101	3	1	–	–	<b>2.2</b>	<b>Moderate</b>
C102	3	2	3	2	<b>2.8</b>	<b>Substantial</b>
C103	3	3	3	2	<b>2.95</b>	<b>Substantial</b>
C104	3	2	3	2	<b>2.8</b>	<b>Substantial</b>
C105	3	2	3	2	<b>2.8</b>	<b>Substantial</b>
C106	3	2	3	2	<b>2.8</b>	<b>Substantial</b>
C107	3	3	–	–	<b>3</b>	<b>Substantial</b>
C108	3	3	–	–	<b>3</b>	<b>Substantial</b>
SEMESTER II						
C111	3	1	–	–	<b>2.2</b>	<b>Moderate</b>
C112	1	2	3	2	<b>1.3</b>	<b>Low</b>
C113	3	2.83	3	2.5	<b>2.95</b>	<b>Substantial</b>
C114	3	3	3	2	<b>2.95</b>	<b>Substantial</b>
C115	3	2	3	2	<b>2.8</b>	<b>Substantial</b>
C116	3	2	3	2	<b>2.8</b>	<b>Substantial</b>
C117	3	3	–	–	<b>3</b>	<b>Substantial</b>
C118	3	3	–	–	<b>3</b>	<b>Substantial</b>
SEMESTER III						
C201	2	1	3	2	<b>1.9</b>	<b>Moderate</b>
C202	3	3	3	2	<b>2.95</b>	<b>Substantial</b>



C203	3	1	3	2	<b>2.65</b>	<b>Substantial</b>
C204	3	2	3	2	<b>2.8</b>	<b>Substantial</b>
C205	3	2	3	2	<b>2.8</b>	<b>Substantial</b>
C206	3	2	3	2	<b>2.8</b>	<b>Substantial</b>
C207	3	3	—	—	<b>3</b>	<b>Substantial</b>
C208	3	3	—	—	<b>3</b>	<b>Substantial</b>
<b>SEMESTER IV</b>						
C211	2	2	3	2	<b>2.05</b>	<b>Moderate</b>
C212	3	2	2	2	<b>2.6</b>	<b>Substantial</b>
C213	3	3	3	2	<b>2.95</b>	<b>Substantial</b>
C214	3	3	3	3	<b>3</b>	<b>Substantial</b>
C215	3	2	3	2	<b>2.65</b>	<b>Substantial</b>
C216	3	2	3	2	<b>2.65</b>	<b>Substantial</b>
C217	3	2.5	3	2	<b>2.75</b>	<b>Substantial</b>
C218	3	3	—	—	<b>3</b>	<b>Substantial</b>
C219	3	3	—	—	<b>3</b>	<b>Substantial</b>
<b>SEMESTER V</b>						
C301	3	2	3	2	<b>2.65</b>	<b>Moderate</b>
C302	3	3	3	3	<b>3</b>	<b>Substantial</b>
C303	3	2	3	2	<b>2.65</b>	<b>Moderate</b>
C304	3	2.58	2.1	2.3	<b>2.79</b>	<b>Moderate</b>
C305	3	3	3	2	<b>2.95</b>	<b>Substantial</b>
C306	3	2	3	2	<b>2.65</b>	<b>Moderate</b>
C307	3	3	3	2	<b>3</b>	<b>Substantial</b>



C308	3	3	—	—	<b>3</b>	<b>Substantial</b>
C309	3	3	—	—	<b>3</b>	<b>Substantial</b>
<b>SEMESTER VI</b>						
C311	3	3	3	2	<b>2.95</b>	<b>Substantial</b>
C312	3	2.89	3	3	<b>2.97</b>	<b>Substantial</b>
C313	3	2	3	2	<b>2.65</b>	<b>Substantial</b>
C314	3	3	3	3	<b>3</b>	<b>Substantial</b>
C315	3	2.93	3	2.584	<b>2.96</b>	<b>Substantial</b>
C316	3	3	3	2	<b>2.95</b>	<b>Substantial</b>
C317	3	3	3	3	<b>3</b>	<b>Substantial</b>
C318	3	3	3	3	<b>3</b>	<b>Substantial</b>
C319	3	3	—	—	<b>3</b>	<b>Substantial</b>
C320	3	3	—	—	<b>3</b>	<b>Substantial</b>
<b>SEMESTER VII</b>						
C401	3	1.51	2.4	2.38	<b>2.49</b>	<b>Moderate</b>
C402	3	2	3	2	<b>2.65</b>	<b>Substantial</b>
C403	3	2	3	3	<b>2.7</b>	<b>Substantial</b>
C404	3	2	3	3	<b>2.7</b>	<b>Substantial</b>
C405	3	3	3	3	<b>3</b>	<b>Substantial</b>
C406	3	3	—	—	<b>3</b>	<b>Substantial</b>
C407	3	3	—	—	<b>3</b>	<b>Substantial</b>



SEMESTER VIII						
C411	3	2	3	2	<b>2.65</b>	<b>Substantial</b>
C412	3	3	–	–	<b>3</b>	<b>Substantial</b>

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Assessment Tools	Direct / Indirect	Remarks
Course Evaluation	Direct	<ul style="list-style-type: none"> <li>• Courses are evaluated through internal assessment examinations and end semester examinations.</li> <li>• Other modes of evaluation are Assignments / Tutorials, online tests.</li> </ul>
Project Evaluation	Direct	Project evaluation is conducted periodically and at the end of the semester.
Course End Survey	Indirect	Course End Survey is collected at the end of each semester Alumni Survey and Indirect Alumni Survey are collected at the end of each academic year
Student Exit Survey	Indirect	Student Exit Survey is collected from the Graduates
Alumni Survey	Indirect	Alumni Survey is collected from Alumni
Employer Survey	Indirect	Employer Survey is collected from employer of Alumni

Table.3.3.1.b Frequency of Assessment Processes

Assessment Tools	Frequency	Stakeholders	Coordinator/ Committee
Course Evaluation	Twice a Year	Students	Head of the Department
Project Evaluation	Continuous assessment through reviews	Students	Industry expert, Supervisor, Head of the Department and Project review committee




Course End Survey	Twice a Year	Students	Course Co-ordinator
Student Exit Survey	Yearly	Graduates	Programme Co-ordinator
Alumni Survey	Yearly	Alumni	Head of the Department
Employer Survey	Yearly	Employer	Head of the Department



Indirect attainment:

Alumni survey:

docs.google.com



## ALUMNI SURVEY

THE ALUMNI ARE REQUESTED TO FILL THE SURVEY FORM IN WHICH OUR EEI DEPARTMENT'S PROGRAM OUTCOMES ,PROGRAM EDUCATIONAL OBJECTIVE: PROGRAM SPECIFIC OUTCOMES ARE LISTED.YOU HAVE TO ASSESS THE OUTCOMES LISTED BELOW WITH THE POINTS SUCH AS

3-HIGH ,  
2-MODERATE ,  
1-LOW

\* Required





# ALUMNI SURVEY

docs.google.com

DEPARTMENT OF ELECTRICAL AND  
ELECTRONICS ENGINEERING



NAME \*

Your answer

EMAIL \*



ENGINEERING COLLEGE (Autonomous)

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## ALUMNI SURVEY

docs.google.com

### COMPANY NAME & LOCATION \*

Your answer

### DESIGNATION \*

Your answer

### BATCH YOU HAVE PASSED OUT \*

2010

2011

2012



2013

2014

2015

2016

2017

2018

2019

2020

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## PROGRAM OUTCOME ASSESSMENT

1. Apply knowledge of mathematics, science and engineering to domain





## ALUMNI SURVEY

docs.google.com

 LOW

2. Identify, analyze and formulate Electrical and Electronics Engineering problems based on the knowledge of basic sciences and engineering. \*

 HIGH MODERATE LOW

3. Design and develop Electrical and Electronic Engineering based solutions to meet the desired requirements \*







## ALUMNI SURVEY

docs.google.com

4. Investigate complex problems in the areas of power, control and energy to provide suitable solutions.

\*

- HIGH
- MODERATE
- LOW


5. Use the techniques, skills and modern engineering tools necessary for real world applications within realistic constraints.

\*

- HIGH
- MODERATE



## Employer survey:



**NANDHA ENGINEERING COLLEGE, ERODUR**  
(AUTONOMOUS)

**Department of Electrical and Electronics Engineering**

**EMPLOYER SURVEY**

**Dear Sir/Madam,**

Nandha Engineering College is involved in the process of continuous improvement to as to fulfil the requirements of the Industry / Business organizations. At this juncture, we we feedback about our Graduates, who is/are at present employed in your organization. This data part of requirement of National Board of Accreditation (NBA), a Government body, und Human Resources & Development, New Delhi. NBA assesses engineering colleges in India quality technical education. Hence, this survey form is purely meant for academic purpose measures by our Institution, in filling the gaps, to impart quality education to all students; Institution. We assure you that the data will be kept confidential.

Kindly mark the following attributes appropriately suiting him/her as your employee.

Your most valuable response to all questions is solicited and highly appreciated.

**Name of the Organization** : MIKROSON TECHNOLOGY, SALEM

**Employer Details**

**Name of the Assessor** : MR. M. GERTHAJ PREYAN

**Designation** : EMBEDDED TRAINER

**Employee Details (Alumni of NEC)**

**Name** : MR. A. AHMED ASATH

**Period of Studies** : 2017 - 2021

**Branch** : EEE

**Present Designation** : JUNIOR TECHNICAL TRAINEE



An ability to investigate complex problems in the areas of power, control and energy to provide suitable solutions.	✓		
An ability to use the techniques, skills and modern engineering tools required for EEE applications		✓	
An ability to understand the impact of EEE solutions in a global, economic, environmental and societal context.	✓		
An ability to understand the impact of the solutions on the environment to ensure sustainability.	✓		
An ability to apply professional and ethical principles with responsibility.	✓		
An ability to perform in multidisciplinary areas		✓	
An ability to Communicate effectively	✓		
An ability to apply, design and implement application oriented projects		✓	
An ability to recognize the need for and ability to engage in lifelong learning.	✓		
An ability to design applications related to Electrical and Electronics Engineering.		✓	
An ability to find the solutions for complex engineering problems	✓		
An ability to communicate concepts			

**VISION:**

**VISION & MISSION OF THE INSTITUTE**

To be a World class Engineering Institution in Leading Technological and Socio-Economic of the Country by enhancing the Global Competitiveness of Technical Manpower and by extending Technical Education through Dissemination of Knowledge, Insights and Intellectual Contributions.

**MISSION:**

To provide Value-based Technical Education and mould the Character of Younger generations.

**VISION & MISSION OF THE DEPARTMENT**

**VISION:**

To produce professionally competent Electrical and Electronics Engineers to meet out the global needs in inter/multi disciplinary domains.

**MISSION:**

Department of Electrical and Electronics Engineering is committed to

- To equip the students with knowledge and skills to cater to the industrial needs




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We would like you to take a few minutes to complete this brief questionnaire.

How do you rate the current potential of NEC EEE alumni working in your organization on the following criteria:	Exemplary (4)	Accomplished (3)	Developing (2)
An ability to apply knowledge of mathematics, science and engineering to solve the problems in the area of Electrical and Electronics	✓		
An ability to Identify, analyze and formulate Electrical and Electronics Engineering problems based on the knowledge of basic sciences and engineering		✓	

student should be aware of latest

Signature with date: 

Email : m18xy@sunprojecte@gmail.com

Student Exit Survey:

SINo	REGISTER NUMBER	Name of the Student	e-MailID	1. Adequate knowledge of mathematics, science and engineering to solve open ended applications.	2. Adequate knowledge of mathematics, Electrical and Electronics Engineering problems based on the knowledge of basic sciences and engineering	3. Design and develop hardware and software Engineering based solutions to meet the stated requirements.	4. Investigate complex problems in the areas of power, control, instrumentation, embedded systems, signal processing, etc.	5. Use the knowledge, skills and modern engineering tools necessary for real world applications, where ethical considerations.	6. Apply engineering solutions in societal and global contexts.	7. Understand the role of the engineer in the society and contribute to the development of the community.	8. Understand professional and ethical responsibilities.	9. Function as a team member and leader, as part of multi-disciplinary team to accomplish a common goal.	10. Communicate effectively in both verbal and written forms.	11. Ability to use engineering and technological principles and tools for identifying, formulating, solving and designing a problem.	12. Recognition of the need for and the ability to engage in lifelong learning.	13. Demonstrate knowledge and competence in the application of basic sciences, mathematics and electronics in electrical and electronics systems.	14. Ability to explore complex engineering problems.	15. Demonstrate the ability to communicate effectively, if they work in team and develop good personality.	16. Apply appropriate techniques and modern engineering tools in core area.	General sugg
1	18EE002	ABISHEK P	abisk18xv02@nandhaengg.org	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
2	18EE003	ARUL PRAKASH S	arprakash18x003@nandhaengg.org	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
3	18EE004	ARUNA E	aruna18x004@nandhaengg.org	2	2	2	2	3	2	3	2	3	2	3	1	2	1	3	2	
4	18EE005	BALAKUMARAN S	bsb18x005@nandhaengg.org	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
5	18EE006	SHARAN DHARAN M	sharan18x006@nandhaengg.org	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
6	18EE007	CHANDRAPRAKASH R	chandrprakash18x007@nandhaengg.org	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	nc
7	18EE008	DEEPAK ARVINTHA	deepprakash18x008@nandhaengg.org	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
8	18EE009	DHANABAL S	dhana18x009@nandhaengg.org	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
9	18EE010	DHEENADHARALAN M	dhenaadharan18x010@nandhaengg.org	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
10	18EE011	DHIVYAG	dhivya18x011@nandhaengg.org	3	2	2	2	3	1	2	2	2	2	2	2	2	2	2	2	



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15	18EE076	GOBKAM	gobk18ee076@nandhaengg.org	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
16	18EE077	GOKUL A K	gokul18ee077@nandhaengg.org	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
17	18EE078	GOKUL B	gokul18ee078@nandhaengg.org	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
18	18EE079	GOKUL C	gokul18ee079@nandhaengg.org	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
19	18EE080	GOKULRAJA S	gokulraj18ee080@nandhaengg.org	2	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	
20	18EE021	HARISH USHNIV	harishu18ee021@nandhaengg.org	2	3	2	2	1	2	3	3	2	2	2	2	2	2	2	2	2	please arrange a fi exampic local suoc knowledge and the creates curiocity to nice.
21	18EE022	JAYARAM S	jayaram18ee022@nandhaengg.org	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2	2	2	
22	18EE023	KALAKUMARA	kalakumar18ee023@nandhaengg.org	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
23	18EE024	KARTHKEYAN M	karthkeyan18ee024@nandhaengg.org	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
24	18EE025	KAVIARASU R	kaviarasu18ee025@nandhaengg.org	2	2	2	2	3	3	2	3	1	2	2	2	2	2	2	2	2	
25	18EE026	KAUNKUMAR R	kaunkumar18ee026@nandhaengg.org	3	2	3	3	3	3	2	2	2	3	3	2	2	3	3	3	3	
26	18EE027	MADHU PRANESH S P	madhu18ee027@nandhaengg.org	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
27	18EE028	MANICKA VASAGAMD	manicka18ee028@nandhaengg.org	3	3	2	3	3	3	2	3	3	3	3	3	3	3	3	3	3	
28	18EE030	MANIKANDAR	manikandar18ee030@nandhaengg.org	3	3	3	3	3	3	2	3	3	3	2	3	3	3	2	3		
29	18EE031	MANDUKUMAR S	mandukumar18ee031@nandhaengg.org	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	yes, up
34	18EE036	MOHANKUMAR M	mohankumar18ee036@nandhaengg.org	2	2	2	2	3	3	3	3	3	3	3	2	3	2	2	2	2	
35	18EE037	MOUSIK BHANKAR S	mousikbhan18ee037@nandhaengg.org	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
36	18EE038	NAVEEN VP	naveen18ee038@nandhaengg.org	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
37	18EE039	POOMATH S	poomath18ee039@nandhaengg.org	3	2	3	3	2	3	3	2	2	2	2	2	2	2	2	3	3	
38	18EE040	POORNIMA E	poornima18ee040@nandhaengg.org	3	3	3	3	3	2	2	3	2	3	3	3	3	3	3	3	3	
39	18EE041	PRANAVRAKUL RR	pranav18ee041@nandhaengg.org	3	3	2	2	2	2	2	3	2	2	3	2	2	3	3	3	3	1. 24*7 Drinking wa 2. in EEE Departmen department student Re
40	18EE042	PREMNATH S	premnath18ee042@nandhaengg.org	2	2	1	2	1	2	2	2	3	3	2	2	2	2	3	3	3	
41	18EE043	ROOBAN SANKAR M	rooban18ee043@nandhaengg.org	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
42	18EE044	SABARINATH A	sabarina18ee044@nandhaengg.org	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
43	18EE045	SARANT	sarant18ee045@nandhaengg.org	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
44	18EE046	SATHISH K	sathish18ee046@nandhaengg.org	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
45	18EE047	SELVAKANAKESHWAR R	selvakana18ee047@nandhaengg.org	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
46	18EE050	SELVAKANAKESHWAR R	selvakana18ee050@nandhaengg.org	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
47	18EE051	SELVAKUMAR K	selvakumar18ee051@nandhaengg.org	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
48	18EE052	SHARMLA R	sharmla18ee052@nandhaengg.org	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
49	18EE053	SNEKA S	sneka18ee053@nandhaengg.org	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
50	18EE054	SOUJANYA HARIRAJ J	soujanya18ee054@nandhaengg.org	3	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	Need to im
51	18EE055	SRIITHI R	sriithi18ee055@nandhaengg.org	2	2	3	2	2	2	3	2	3	2	2	2	2	2	2	2	2	
52	18EE056	SUITHI P	suithi18ee056@nandhaengg.org	3	2	3	3	2	2	3	3	2	3	3	3	3	3	2	3	2	
53	18EE057	VASUPABBA S M	vasupabba18ee057@nandhaengg.org	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
54	18EE01	ARJUNKUMAR S	arjun18ee001@nandhaengg.org	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
57	18EE03	DEPPANKUMAR S	deppan18ee003@nandhaengg.org	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	New
58	18EE04	DHINESH KUMAR S	dhinesh18ee004@nandhaengg.org	2	3	3	3	3	3	2	2	2	3	3	2	2	2	3	3	3	
59	18EE05	GANESH M	ganesh18ee005@nandhaengg.org	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
60	18EE06	GOKUL M	gokul18ee006@nandhaengg.org	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
61	18EE07	GOKUL S	gokul18ee007@nandhaengg.org	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
62	18EE08	HARI HARSH R	harisharsh18ee008@nandhaengg.org	2	3	2	2	2	2	2	2	1	2	3	2	3	2	3	2	3	2
63	18EE09	HARSHAN M	harshan18ee009@nandhaengg.org	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
64	18EE13	JOTHSHANKARAJ M	jothshankar18ee013@nandhaengg.org	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
68	18EE14	KARTHKEYAN G	karthkeyan18ee014@nandhaengg.org	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
69	18EE15	KAVIN L	kavin18ee015@nandhaengg.org	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
70	18EE16	NEELAKANDAPILLAI P	neelakand18ee016@nandhaengg.org	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
71	18EE20	PRAVEENKUMAR A	praveen18ee020@nandhaengg.org	2	2	2	2	2	2	2	2	1	2	2	2	2	2	1	2	1	Practical
72	18EE21	PRAVEENKUMAR S	praveen18ee021@nandhaengg.org	2	2	2	2	3	2	3	2	2	2	3	3	2	2	3	3		
73	18EE22	SADHASRAM M	sadhasram18ee022@nandhaengg.org	2	2	2	2	2	2	3	3	2	2	2	2	2	2	2	2	2	
74	18EE23	SARWESWARANK R	sarweswar18ee023@nandhaengg.org	3	3	2	2	2	3	3	3	3	2	2	2	3	3	3	3	3	
75	18EE24	SHBIN KOSHY	shbin18ee024@nandhaengg.org	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
76	18EE25	VINOTH PAJ E	vinoth18ee025@nandhaengg.org	3	3	3	2	3	3	3	3	2	3	3	2	3	2	3	2	3	
77	18EE26	YOJESHWARAJ R	yojeshwar18ee026@nandhaengg.org	3	2	3	2	3	2	3	2	3	2	3	2	3	2	2	2	2	



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**3.3.2 Provide results of evaluation of each PO & PSO (65)**

(The attainment levels by direct (student performance) and indirect surveys) are to be presented through Program level Course-PO&PSO matrices as indicated).

**PO Attainment & PSO Attainment:**

**Table.3.3.2.a Attainment of PO's and PSO's Attainment between the Courses and the Program Outcomes & Program Specific Outcomes**

SEMESTER I																	
Course No.	Course Code & Course name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
C101	17EYA01 - Professional English – I	0	0	0	0	2	0	0	2	2	2	0	I 2	0	0	2	0
C102	17MYB01 - Calculus and Solid Geometry	3	3	3	3	3	3	3	0	3	0	3	O N 0	3	3	3	3
C103	17PYB01 - Physics for Engineers	3	3	3	3	3	3	0	2	0	0	0	3 3	2	2	3	2



<b>C104</b>	17CYB02 - Applied Electrochemistry	3	0	3	0	0	3	2	3	3	0	3	3	2	2	3	2
<b>C105</b>	17MECO1 - Engineering Graphics	3	3	3	3	3	3	3	0	0	0	3	C3	3	3	3	3
<b>C106</b>	17CSC02 - Python Programming	3	3	3	0	0	0	0	0	3	3	3	R I 0	3	0	3	2
<b>C107</b>	17CSP02 - Python Programming Laboratory	2	3	2	0	3	0	0	0	3	3	3	T E 0	3	3	3	2
<b>C108</b>	17GYB02 - Engineering Practices Laboratory	3	3	3	2	3	3	3	3	3	3	1	R 3	3	2	0	3

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**SEMESTER II**

<b>C111</b>	17EYA02 - Professional English – II	0	0	0	0	2	0	0	2	2	2	0	N 2	0	0	2	0
<b>C112</b>	17MYB02 - Complex Analysis and Laplace Transforms	1	1	1	1	1	1	1	0	1	0	1	0 3	1	1	0	1
<b>C113</b>	17PYB05 - Physics of Solids	3	2	2	3	0	0	0	3	0	0	0	3	2	1	0	2



<b>C114</b>	17CYB03 - Environmental Science	2	2	2	0	0	3	3	3	3	3	0	0	2	1	2	1
<b>C115</b>	17GYC01 - Basics of Civil and Mechanical Engineering	2	2	3	2	2	3	2	3	3	2	3	C3	0	3	0	3
<b>C116</b>	17EEC02 - Electric Circuit Theory	3	3	3	3	3	3	2	3	0	0	1	R2	3	3	3	3
<b>C117</b>	17GYP01- Physics and Chemistry Laboratory	2	2	0	3	0	3	2	2	0	0	3	I3	2	2	2	2
<b>C118</b>	17EEP01 - Electric Circuits Laboratory	3	3	3	3	3	2	3	3	3	3	1	E3	3	3	3	3

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SEMESTER III																	
<b>C201</b>	17MYB05 - Transforms and Partial Differential Equations	2	2	2	0	0	0	2	0	0	0	0	O0	2	2	2	2
<b>C202</b>	17EEC03 - Electronic Devices and Circuits	2	2	3	3	2	3	0	2	0	3	3	N2	2	2	0	3
<b>C203</b>	17EEC04 - Electrical Machines I	3	3	2	3	2	3	3	2	0	0	3	32	3	3	2	2





<b>C204</b>	17EEEC05 - Field Theory	2	3	3	3	3	2	3	3	0	0	3	1	3	3	3	3
<b>C205</b>	17EEEC06 - Power Plant Engineering	1	1	1	0	0	3	3	3	3	2	2	C 3	1	1	1	1
<b>C206</b>	17ITC03 - Data Structures and Algorithms	1	3	3	3	0	0	0	0	3	3	3	R 0	2	2	2	2
<b>C207</b>	17EEP02 - Electronic Devices and Circuits Laboratory	2	2	3	3	3	3	0	2	3	3	3	I 2 T	2	2	2	2
<b>C208</b>	17EEP03 - Electrical Machines I Laboratory	1	3	3	3	0	3	0	2	0	0	1	E 2	2	2	2	2

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SEMESTER IV																		
<b>C211</b>	17MYB10 - Probability, Statistics and Numerical Methods	2	2	2	2	2	0	0	0	0	0	2	O 2 N	2	2	2	2	
<b>C212</b>	17EEEC07 - Electrical Machines II	1	3	2	3	0	2	0	2	0	0	1	2 3	2	2	2	0	2



<b>C213</b>	17EEEC08 - Linear Integrated Circuits	2	2	2	3	3	2	0	2	0	0	3	3	2	2	2	2		
<b>C214</b>	17EEEC09 - Digital Logic Circuits	2	3	3	3	3	0	0	2	3	0	3	C 2	2	2	2	3		
<b>C215</b>	17EEEC10 - Transmission and Distribution	1	1	1	1	2	2	2	3	0	2	2	R I 2	3	3	3	3		
<b>C216</b>	17ITC08 - Fundamentals of Java Programming	1	2	2	0	0	0	0	0	0	3	3	T 0	3	3	2	3		
<b>C217</b>	17EEX01 - Fundamentals of Fiber Optics and Laser Instrumentation	1	1	1	2	2	0	0	1	3	2	3	E R 2	2	2	0	2		
<b>C218</b>	17EEP04 - Electrical Machines II Laboratory	1	2	2	3	3	3	3	1	2	0	1	I O 2	3	2	2	2		
<b>C219</b>	17EEP05 - Linear and Digital Integrated Circuits Laboratory	1	3	3	3	3	3	3	1	0	0	1	N 2	3	3	2	3		
<b>SEMESTER V</b>																			
<b>C301</b>	17GEA02 - Principles of Management	0	0	2	3	2	3	3	2	3	3	3	3	3	0	0	0	1	1



<b>C302</b>	17EEEC11 - Measurements and Instrumentation	2	2	2	3	2	1	0	2	0	0	1	2	3	3	0	2	
<b>C303</b>	17EEEC12 - Control Systems	3	3	3	3	3	3	2	0	2	3	2	3	3	3	3	3	
<b>C304</b>	17EEEC13 - Power Electronics	2	2	3	3	3	3	2	0	0	0	3	1	2	2	0	3	
<b>C305</b>	17EEEC14 - Communication Engineering	1	2	2	2	2	3	0	0	3	3	3	3	2	2	0	2	
<b>C306</b>	17ITC12 - Data Base Systems Concepts	3	3	3	0	0	0	0	0	0	3	3	0	3	3	3	3	
<b>C307</b>	17EEX10 - Special Electrical Machines	2	2	2	2	3	3	0	3	0	0	1	2	2	2	2	2	
<b>C308</b>	17EEP06 - Control and Instrumentation Laboratory	2	2	1	2	1	3	0	0	3	2	3	2	3	3	3	3	
<b>C309</b>	17EEP07 - Power Electronics Laboratory	2	2	3	2	1	1	0	0	0	0	1	2	3	3	2	3	
<b>SEMESTER VI</b>																		
<b>C311</b>	17EEEC15 - Power System Analysis	2	3	2	3	2	1	0	0	1	0	1	3	2	3	3	0	2



<b>C312</b>	17EEEC16 - Microprocessor and Microcontroller	2	2	3	3	3	3	3	0	0	0	3	3	2	3	0	2
<b>C313</b>	17EEX11 - Bio Medical Instrumentation and its Applications	2	3	2	3	2	3	3	0	0	3	3 <sub>C</sub>	0	2	3	0	2
<b>C314</b>	17EEX18 - Power Quality	2	3	2	3	2	3	3	0	0	2	3	2	2	2	3	2
<b>C315</b>	17EEX13 - Power Electronics For Renewable Energy Systems	2	0	2	3	2	0	3	2	0	2	1	3	2	2	0	2
<b>C316</b>	17EEX16 - High Voltage Engineering	1	2	1	2	1	3	0	0	3	2	3 <sub>E</sub>	2	2	1	0	2
<b>C317</b>	17ECX16 - Internet of Things and its Applications	3	2	2	3	3	3	2	0	3	2	2 <sub>R</sub> 2 <sub>I</sub>	2	2	2	3	2
<b>C318</b>	17CSX31 - Problem Solving and Programming	3	2	3	3	3	2	3	0	2	3	2 <sub>O</sub>	2	2	2	2	2
<b>C319</b>	17EYX01 - Effective Communication	0	0	0	0	3	0	0	3	3	3	1 <sub>N</sub>	3	0	0	3	0
<b>C320</b>	17EEP08 - Microprocessor and Microcontroller Laboratory	2	3	2	3	3	3	2	2	3	0	3 <sub>3</sub>	3	3	2	2	2



SEMESTER VII																		
C401	17EEC17 - Electric Drives and Control	2	2	2	0	2	2	0	0	2	0	2	C	2	2	2	0	2
C402	17EEC18 - Power System Protection and Switch Gear	2	2	2	2	0	3	0	3	3	3	3	R	3	2	2	0	2
C403	17EEC19 - Principles of Embedded Systems	2	2	2	3	3	3	2	0	0	0	3		3	2	2	0	2
C404	17EEC20 - Power System Operation and Control	3	3	3	3	2	3	2	2	3	0	1	T	3	3	3	3	3
C405	17EEX20 - Flexible AC Transmission Systems	2	2	2	3	2	3	0	2	0	0	1	E	3	3	2	0	2
C406	17EEP09 - Power System Simulation Laboratory	3	3	3	3	3	0	0	2	3	2	3	R	2	3	3	3	3
C407	17EED01 - Project Work I	3	3	3	3	3	3	3	3	3	3	3	I	3	3	3	3	3
SEMESTER VIII																		
C411	17EEX22 - Fundamentals of Electric Power Utilization	2	2	2	2	0	3	3	0	0	0	0	N	3	3	2	0	2
C412	17EED02 - Project Work II	3	3	3	3	3	3	3	3	3	3	3		3	3	3	3	3

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Table B.3.3.2.b Overall Attainment Calculation of Programme Outcomes (PO)

SURVEY	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
ALUMNI SURVEY	2.65	2.24	2.32	2.35	2.74	2.58	2.62	2.56	2.65 <sup>R</sup>	2.21	2.48	2.48
EMPLOYER SURVEY	2.52	2.38	2.14	2.24	2.65	2.47	2.45	2.43	2.72 <sup>I</sup> <sub>T</sub>	2.53	2.51	2.56
STUDENT EXIT SURVEY	2.60	2.50	2.50	2.50	2.60	2.50	2.60	2.60	2.50 <sup>E</sup> <sub>R</sub>	2.60	2.60	2.50
INDIRECT ATTAINMENT	2.59	2.37	2.32	2.36	2.66	2.52	2.56	2.53	2.62 <sup>I</sup> <sub>O</sub>	2.45	2.53	2.51
OVER ALL ATTAINMENT	<b>2.03</b>	<b>2.13</b>	<b>2.16</b>	<b>2.15</b>	<b>2.02</b>	<b>2.06</b>	<b>1.55</b>	<b>1.58</b>	<b>1.67<sup>N</sup></b>	<b>1.52</b>	<b>2.07</b>	<b>2.05</b>
% of OVER ALL ATTAINMENT	<b>67.78</b>	<b>70.93</b>	<b>71.84</b>	<b>71.70</b>	<b>67.30</b>	<b>68.76</b>	<b>51.55</b>	<b>52.76</b>	<b>55.76<sup>3</sup></b>	<b>50.67</b>	<b>68.95</b>	<b>68.32</b>



Table B.3.3.2.c Overall Attainment Calculation of Programme Specific Outcomes (PSO)

SURVEY	PSO1	PSO2	PSO3	PSO4
ALUMNI SURVEY	2.12	2.21	2.49	2.23
EMPLOYER SURVEY	2.24	2.42	2.28	2.55
STUDENT EXIT SURVEY	2.50	2.50	2.60	2.50
INDIRECT ATTAINMENT	2.29	2.38	2.46	2.43
OVER ALL ATTAINMENT	<b>2.18</b>	<b>2.10</b>	<b>1.76</b>	<b>2.16</b>
% of OVER ALL ATTAINMENT	<b>72.36</b>	<b>68.94</b>	<b>55.94</b>	<b>70.73</b>

**Note:** Add more columns as needed for *PSOs*.

Mention the type of survey conducted and the location of its source C101, C102 are indicative courses in the first year. Similarly, C401 is final year course. First numeric digit indicates year of study and remaining two digits indicate course nos. in the respective year of study.

- Direct attainment level of a PO/PSO is determined by taking average across all courses addressing that PO/PSO.
- Indirect attainment level of a PO/PSO is determined based on the student exit surveys, employer surveys and alumni surveys.



## **CRITERION 4**

### **STUDENTS' PERFORMANCE**

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NANDHA

ENGINEERING COLLEGE (Autonomous)



<b>CRITERION 4</b>	<b>Students' Performance</b>	<b>100</b>
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Self Assessment (84.435)

TABLE B.4.a Number of students admitted in the Program

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	CAY (2021-22)	CAYm1 (2020-21)	CAY m2 (2019-20)	CAYm3 (2018-19)	CAYm4 (2017-18)	CAYm5 (2016-17)	CAYm6 (2015-16)
Sanctioned intake of the program (N)	60	60	120	120	120	120	120
Total number of students admitted in first year <i>minus</i> number of students migrated to other programs/ institutions, plus no. of students migrated to this program (N1)	50	47	66	57	85	45	107
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	-	17	32	27	15	16	13
Separate division students, if applicable (N3)	-	-	-	-	-	-	1
Total number of students admitted in the Program (N1 + N2 + N3)	50	64	98	84	100	61	121

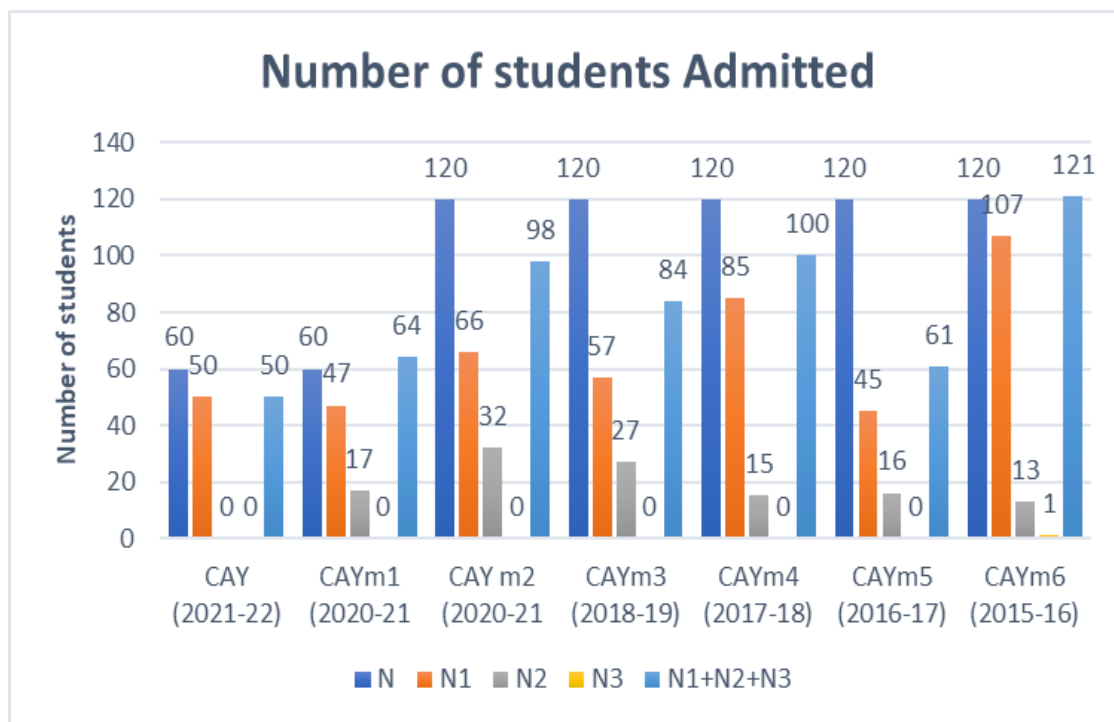


FIGURE B.4.a Number of students admitted in the Program



**Current Academic Year**

**CAYm1- Current Academic Year minus1= Current Assessment Year**

**CAYm2 - Current Academic Year minus2=Current Assessment Yearminus 1**

**LYG – Last Year Graduate minus 1**

**LYGm1 – Last Year Graduate minus 1**

**LYGm2 – Last Year Graduate minus 2**

**TABLE B.4.b Number of students who have successfully graduated without backlogs in any semester/year of study**

Year of entry	N1 + N2 + N3 (As defined above)	Number of students who have successfully graduated without backlogs in any semester/year of study (Without Backlog means no compartment or failures in any semester/year of study)			
		I Year	II Year	III Year	IV Year
CAY (2021-2022)	50	36			
CAYm1(2020-2021)	64	45	44		
CAYm2 (2019-2020)	98	49	65	62	
CAYm3 (2018-2019)	84	41	52	51	51
CAYm4(LYG) (2017-2018)	100	44	48	46	45
CAYm5 (LYGm1) (2016-2017)	61	23	26	24	23
CAYm6(LYGm2) (2015-2016)	121	88	92	86	86

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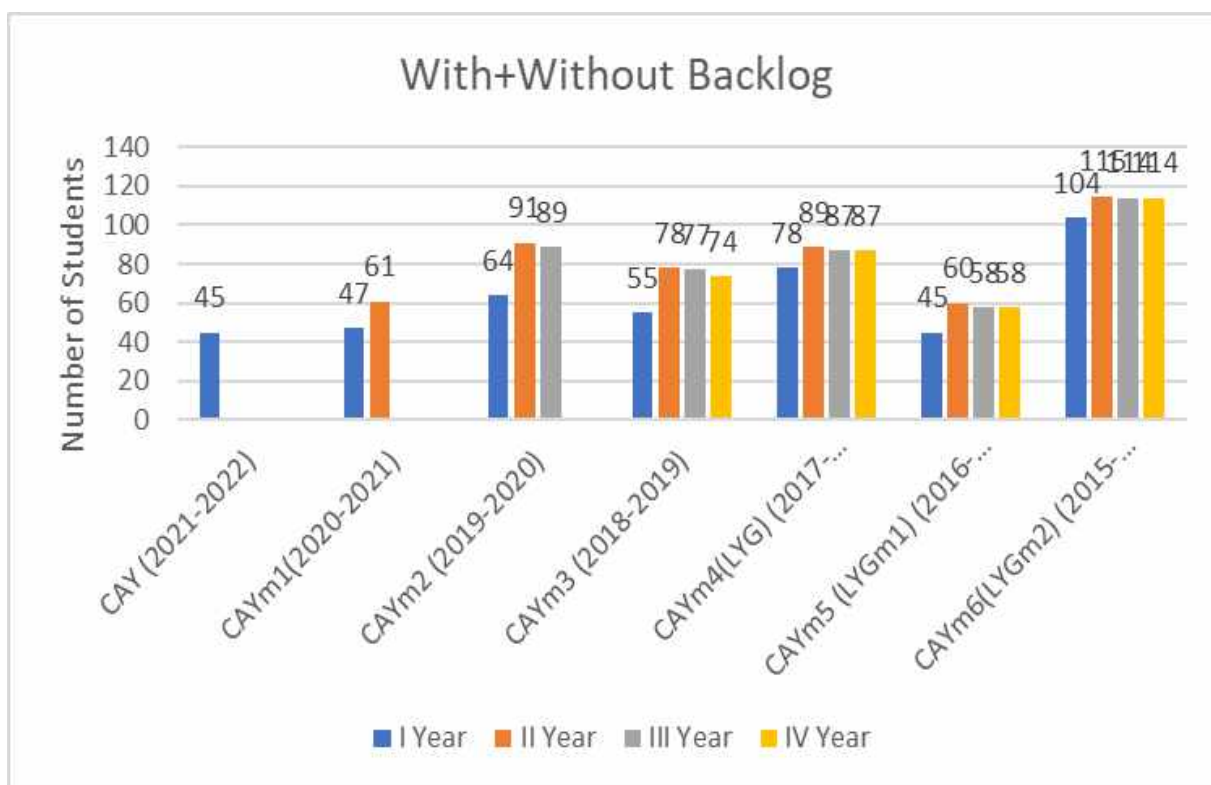


**FIGURE B.4.b Number of students who have successfully graduated without backlogs in any semester/year of study**



**TABLE B. 4.c Number of students who have successfully graduated in stipulated period of study**

Year of entry	N1 + N2 + N3 (As defined above)	Number of students who have successfully graduated (Students with backlog in stipulated period of study) (with+without backlogs)			
		I Year	II Year	III Year	IV Year
CAY (2021-2022)	<b>50</b>	<b>45</b>			
CAYm1(2020-2021)	<b>64</b>	<b>47</b>	<b>61</b>		
CAYm2 (2019-2020)	<b>98</b>	<b>64</b>	<b>91</b>	<b>89</b>	
CAYm3 (2018-2019)	<b>84</b>	<b>55</b>	<b>78</b>	<b>77</b>	<b>74</b>
CAYm4(LYG) (2017-2018)	<b>100</b>	<b>78</b>	<b>89</b>	<b>87</b>	<b>87</b>
CAYm5 (LYGm1) (2016-2017)	<b>61</b>	<b>45</b>	<b>60</b>	<b>58</b>	<b>58</b>
CAYm6(LYGm2) (2015-2016)	<b>121</b>	<b>104</b>	<b>115</b>	<b>114</b>	<b>114</b>

**FIGURE B.4.c Number of students who have successfully graduated in stipulated period of study**

## 4.1 Enrolment Ratio

(20)

Self Assessment (16)

TABLE B.4.1 Enrollment Ratio

Academic Year	CAY 2021-2022	CAYm1 2020-2021	CAYm2 2019-2020
N( from table 4.1)	60	60	120
NI( from table 4.1)	50	47	66
Enrolment Ratio[(NI/N)] %	83.33	78.33	55
	<b>Average Enrollment Ratio %</b>		<b>72.22%</b>

Item (Students enrolled at the First Year Level on average basis during the previous three academic years starting from current academic year)	Marks
>=90% students enrolled	20
>=80% students enrolled	18
<b>&gt;=70% students enrolled</b>	<b>16</b>
>=60% students enrolled	14
Otherwise	0

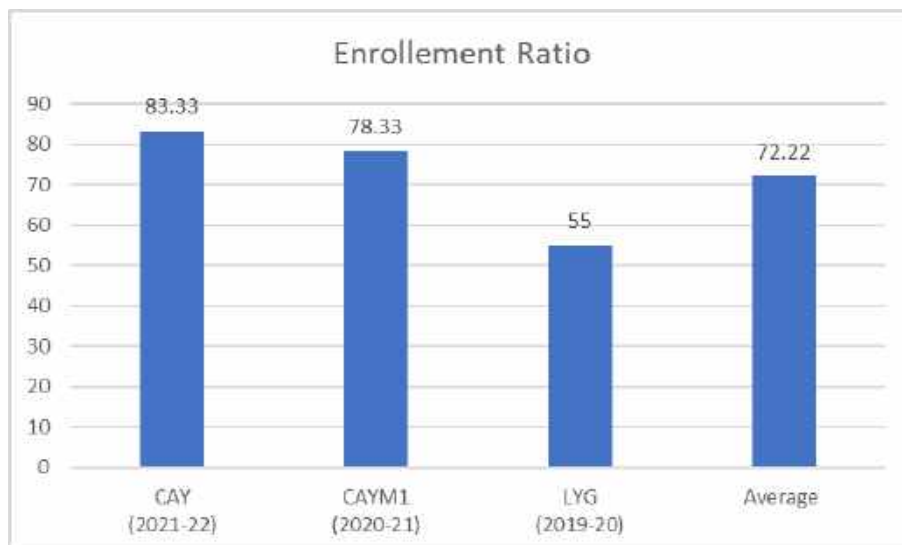


FIGURE B.4.1 Enrollment Ratio



**4.2 Success Rate in the stipulated period of the program (20)**

Self Assessment (12.3)

**4.2.1 Success rate without backlogs in any semester/year of study (15)**

Self Assessment (7.65)

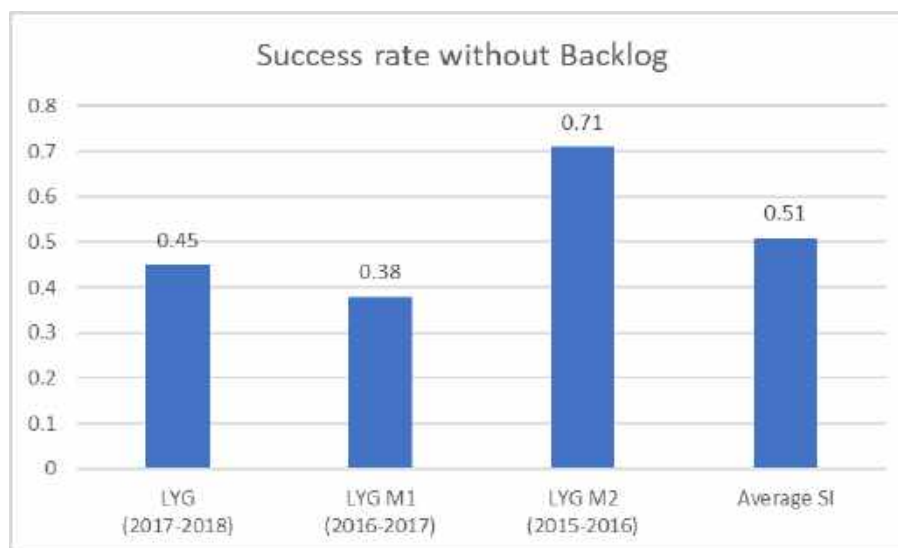
$SI = \frac{\text{Number of students who have graduated from the program without backlog}}{\text{Number of students admitted in the first year of that batch and actually admitted in 2nd year via lateral entry and separate division, if applicable}}$

*Average SI = Mean of Success Index (SI) for past three batches*

*Success rate without backlogs in any semester/year of study = 15 × Average SI*

**TABLE B.4.2.1 Success rate without backlogs in any semester/year of study**

Item	Last Year of Graduate LYG (2017-18)	Last Year of Graduate LYGm1 (2016-17)	Last Year of Graduate LYGm2 (2015-16)
Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry and separate division, if applicable (X)	100	61	121
Number of students who have graduated without backlogs in the stipulated period (Y)	45	23	86
Success Index (SI)	0.45	0.38	0.71
	<i>Average SI</i>		<b>0.51</b>
	<i>Success rate without backlogs in any semester/year of study = 15 * 0.51</i>		<b>7.65</b>

**FIGURE B.4.2.1 Success rate without backlogs in any semester/year of study**

#### 4.2.2 Success rate with backlog in stipulated period of study (5)

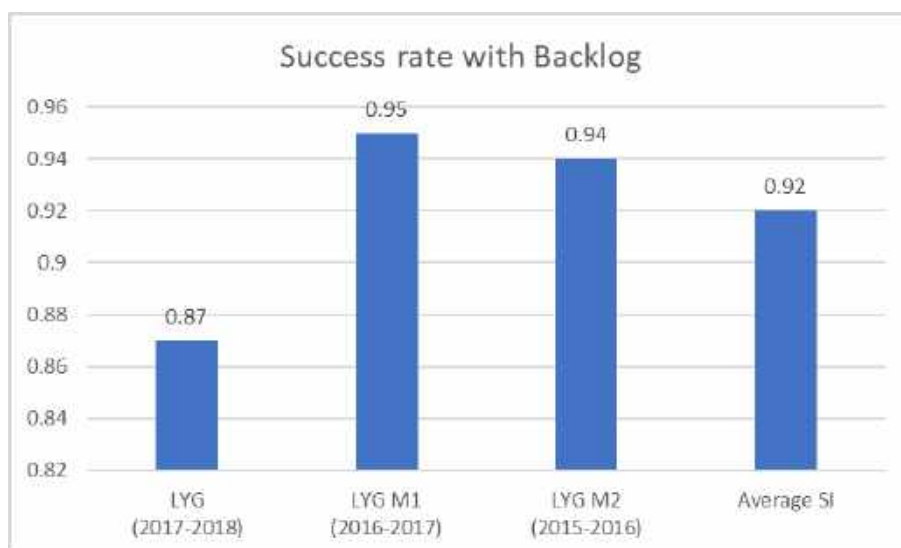
Self Assessment (4.65)

$SI = (\text{Number of students who graduated from the program in the stipulated period of course duration}) / (\text{Number of students admitted in the first year of that batch and actually admitted in 2nd year via lateral entry and separate division, if applicable})$

*Average SI = mean of Success Index (SI) for past three batches*

**TABLE B.4.2.2 Success rate with backlog in stipulated period of study**

Item	Last Year of Graduate LYG (2017-18)	Last Year of Graduate LYGm1 (2016-17)	Last Year of Graduate LYGm2 (2015-16)
Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry and separate division, if applicable (X)	100	61	121
Number of students who have graduated with backlogs in the stipulated period (Y)	87	58	114
Success Index (SI)	0.87	0.95	0.94
Average Success Index	<b>0.92</b>		
<i>Success rate = 5 * Average SI = 5 * 0.93 = 4.65</i>			



**FIGURE B.4.2.2 Success rate with backlog in stipulated period of study**

**4.3 Academic Performance in Second Year****(10)**  
**Self Assessment (9.435)**

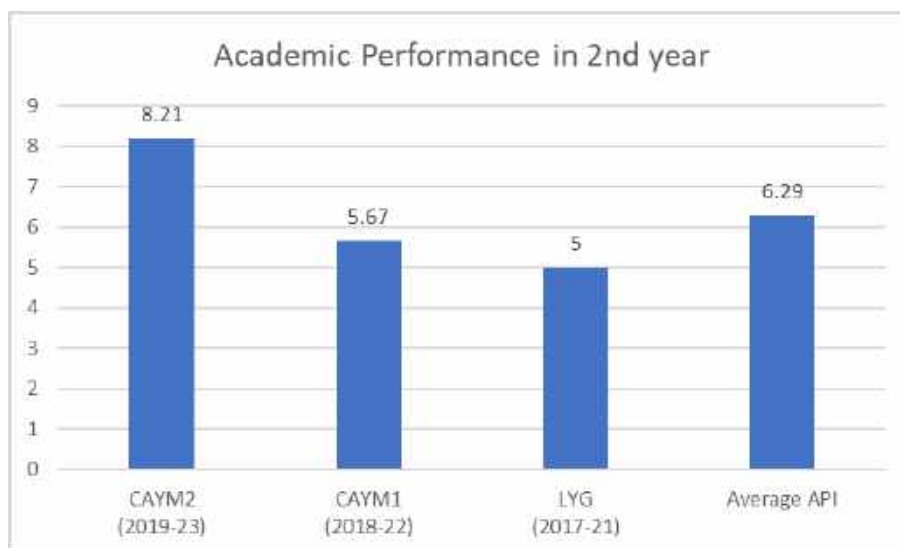
*Academic Performance = Average API (Academic Performance Index), where*

*API = ((Mean of 2<sup>nd</sup>Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful students in Second Year/10)) x (number of successful students/number of students appeared in the examination)*

*Successful students are those who are permitted to proceed to the Third year.*

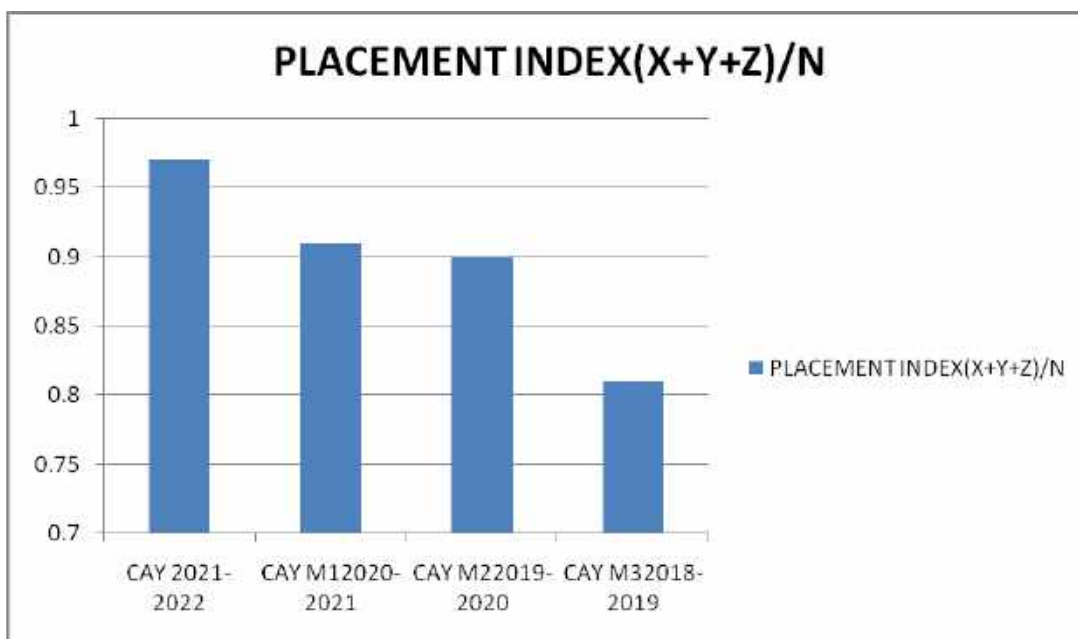
**TABLE B.4.3 Academic Performance in Second Year**

Academic Performance	CAYm2 (2019 – 23)	CAYm3 (2018 – 22)	LYG (2017 – 21)
Mean of CGPA or Mean Percentage of all successful students (X)	8.4	7.76	7.30
Total no. of successful students (Y)	89	57	61
Total no. of students appeared in the examination (Z)	91	78	89
API = X* (Y/Z)	8.21	5.67	5.00
Average API = (AP1 + AP2 + AP3)/3	6.29		
Assessment(1.5*Average API)	<b>9.435</b>		

**FIGURE B.4.3 Academic Performance in Second Year**

**4.4. Placement, Higher Studies and Entrepreneurship****(30)****Self Assessment (26.7)**Assessment Points =  $30 \times$  average placement

Item	CAY (2021 — 22)	CAY m1 (2020 — 21)	CAYm2 (2019 — 20)	CAYm3 (2018 — 19)
Total No. of Final Year Students (N)	77	87	58	114
No. of students placed in companies or Government Sector(x)	66	72	47	89
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (y)	4	3	2	1
No. of students turned entrepreneur in engineering/technology (z)	5	4	3	2
$x + y + z$	75	79	52	92
Placement Index : $(x + y + z)/N$	0.97	0.91	0.90	0.81
Average placement = $(P1 + P2 + P3 + P4)/4$	0.89			
Assessment Points = $30 \times$ average placement	26.7			

**TABLE B.4.4 Placement, Higher Studies and Entrepreneurship****FIGURE B.4.4 Placement, Higher Studies and Entrepreneurship**



4.4 .a. Provide the placement data in the below mentioned format with the name of the program and the assessment year:

**TABLE B. 4.4. a.1. Placement details for the Academic Year (2021-2022)**

<b>ELECTRICAL AND ELECTRONICS ENGINEERING(2021-2022)</b>				
<b>s.no</b>	<b>Name of the student placed</b>	<b>Enrollment No</b>	<b>Name of the Employer</b>	<b>Appointment letter with date</b>
1	ABISHEK P	18EE002	NEXWARE TECHNOLOGIES PRIVATE LIMITED	Dt:19.03.2022
2	ARUL PRAKASH S	18EE003	WEBBERAX	Dt:10.12.2021
3	ARUNA E	18EE004	NCR CORPORATION	Dt:16.12.2021
4	BHARANIDHARAN M	18EE006	1. NCR ORPORATION 2. Q SPIDER	Dt:16.12.2021
5	CHANDRAPRAKASH R	18EE007	NCR CORPORATION	Dt:16.12.2021
6	DEEPAK ARVINTH A	18EE008	NEXWARE TECHNOLOGIES PRIVATE LIMITED	Dt:19.03.2022
7	DHEENADHAYALAN M	18EE010	NEXWARE TECHNOLOGIES PRIVATE LIMITED	Dt:19.03.2022
8	DHIVYA G	18EE011	NEXWARE TECHNOLOGIES PRIVATE LIMITED	Dt:19.03.2022
9	DHIYANESH T	18EE012	WIPRO TECHNOLOGIES PRIVATE LIMITED	Dt:22.01.2022
10	DINESH KUMAR S	18EE013	M-PHISIS TECHNOLOGY	Dt:24.12.2021
11	DIVYA A	18EE014	1. TATA CONSULTANCY SERVICES PRIVATE LIMITED 2. COGNIZANT (CTS) 3. WIPRO TECHNOLOGIES PRIVATE LIMITED	1.Dt:04/11/2021 2.Dt:12/08/2022
12	DIVYARANI R	18EE015	1. DXC TECHNOLOGIES 2.TATA CONSULTANCY SERVICES PRIVATE LIMITED 3.BIRLASOFT	1.Dt:20/10/2021 2.Dt:04/11/2021 3.22.03.2022



			4. WIPRO TECHNOLOGIES PRIVATE LIMITED	4.20.04.2022
13	GOKUL A K	18EE017	NCR CORPORATION	Dt:16.12.2021
14	GOKUL C	18EE019	NCR CORPORATION	Dt:16.12.2021
15	GOKULRAJA S	18EE020	EMF INNOVATION PVT LTD	Dt:17.06.2022
16	HARISH VISHNU V	18EE021	M-PHISIS TECHNOLOGY	Dt:02.06.2022
17	JAYARAM S	18EE022	EMF INNOVATION PVT LTD	Dt:17.06.2022
18	KARTHIKEYAN M	18EE024	1. NCR CORPORATION 2. COGNIZANT(CTS)	Dt:16.12.2021 Dt:17.01.2022
19	KAVIARASU R	18EE025	NCR CORPORATION	Dt:16.12.2021
20	KAVIN KUMAR R	18EE026	Q-SPIDER	Dt:31.01.2022
21	MADHU PRANESH S P	18EE027	WIPRO TECHNOLOGIES PRIVATE LIMITED	Dt:24.01.2022
22	MANICKA VASAGAM D	18EE029	MIKROSUN TECHNOLOGY,SALEM	Dt:13.7.2022
23	MANIKANDAN R	18EE030	NEXWARE TECHNOLOGIES PRIVATE LIMITED	Dt:19.03.2022
24	MANORANJINI C	18EE032	M-PHISIS TECHNOLOGY	Dt:27.12.2021
25	MEGALA M	18EE034	NEXWARE TECHNOLOGIES PRIVATE LIMITED	Dt:19.03.2022
26	MOHANASUNDAR L	18EE035	Q-SPIDER	Dt:31.01.2022
27	MOHANKUMAR M	18EE036	NCR CORPORATION	Dt:16.12.2021
28	POOMATHI S	18EE039	NEXWARE TECHNOLOGIES PRIVATE LIMITED	Dt:19.03.2022
29	POORNIMA E	18EE040	MIKROSUN	Dt:13.7.2022



			TECHNOLOGY,SALEM	
30	PRANAV RAKUL R R	18EE041	NCR CORPORATION	Dt:16.12.2021
31	PREMNATH S	18EE042	1. CAPGEMINI 2. PRODAPT	Dt:02.05.2022 Dt:29.06.2022
32	ROOBAN SANKAR M	18EE043	NCR CORPORATION	Dt:16.12.2021
33	SABARINATH A	18EE044	NEXWARE TECHNOLOGIES PRIVATE LIMITED	Dt:19.03.2022
34	SAIRAM T	18EE045	NCR CORPORATION	Dt:16.12.2021
35	SAMINATHAN M	18EE046	MIKROSUN TECHNOLOGY,SALEM	Dt:13.7.2022
36	SAMUEL J	18EE047	NCR CORPORATION	Dt:16.12.2021
37	SARUN D	18EE048	MIKROSUN TECHNOLOGY,SALEM	Dt:13.7.2022
38	SATHISH K	18EE049	EMF INNOVATION PVT LTD	Dt:11.08.2022
39	SELVAKAMALESHWAR	18EE050	COGNIZANT (CTS)	Dt:18.01.2022
40	SELVAKUMAR K	18EE051	M-PHISIS TECHNOLOGY	Dt:20.12.2021
41	SHARMILA R	18EE052	1. ASPIRE SYSTEM 2. COGNIZANT(CTS)	1.Dt:28.12.2021 2.Dt:29.01.2022
42	SNEKA S	18EE053	DXC TECHNOLOGIES	Dt:25.05.2022
43	SOWNTHARRAJ J	18EE054	EMF INNOVATION PVT LTD	Dt:17.06.2022
44	SRINITHI R	18EE055	MIKROSUN TECHNOLOGY,SALEM	Dt:13.7.2022



45	SUJITH P	18EE056	WIPRO TECHNOLOGIES PRIVATE LIMITED	Dt:22.01.2022
46	VASIMABBAS M	18EE057	NCR CORPORATION	Dt:16.12.2021
47	DEPPANKUMAR S	18EEL03	MIKROSUN TECHNOLOGY,SALEM	Dt:13.7.2022
48	DHINESH KUMAR S	18EEL04	NEXWARE TECHNOLOGIES PRIVATE LIMITED	Dt:19.03.2022
49	GANESH.M	18EEL05	MIKROSUN TECHNOLOGY,SALEM	Dt:13.7.2022
50	GOKUL M	18EEL06	NCR CORPORATION	Dt:16.12.2021
51	GOKUL S	18EEL07	EMF INNOVATION PVT LTD	Dt:17.06.2022
52	HARI HARAN R	18EEL08	NCR CORPORATION	Dt:16.12.2021
53	HARINI M	18EEL11	DXC TECHNOLOGIES	Dt:24.05.2022
54	INDHUMATHI M	18EEL12	NCR CORPORATION	Dt:16.12.2021
55	JOTHISHANKARRAJ M	18EEL13	NEXWARE TECHNOLOGIES PRIVATE LIMITED	Dt:19.03.2022
56	KARTHIKEYAN G	18EEL14	MIKROSUN TECHNOLOGY,SALEM	Dt:13.7.2022
57	KAVIN L	18EEL15	NCR CORPORATION	Dt:16.12.2021
58	NEELAKANDA PILLAI P I	18EEL18	MIKROSUN TECHNOLOGY,SALEM	Dt:13.7.2022
59	PRAVEENKUMAR A	18EEL20	NEXWARE TECHNOLOGIES PRIVATE LIMITED	Dt:19.03.2022
60	PRAVEENKUMAR S	18EEL21	COGNIZANT(CTS)	Dt:18.01.2022



61	SADHASIVAM M	18EEL22	Q-SPIDER	
62	SARWESWARAN K	18EEL23	MIKROSUN TECHNOLOGY,SALEM	Dt:13.7.2022
63	SHIBIN KOSHY	18EEL24	NEXWARE TECHNOLOGIES PRIVATE LIMITED	Dt:19.03.2022
64	VINOTHRAJ.E	18EEL25	MIKROSUN TECHNOLOGY,SALEM	Dt:13.7.2022
65	YOGESHWARAN R	18EEL26	NEXWARE TECHNOLOGIES PRIVATE LIMITED	Dt:19.03.2022
66	YUVARAJHAN D	18EEL27	MIKROSUN TECHNOLOGY,SALEM	Dt:13.7.2022

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TABLE B. 4.4. a.2. Placement details for the Academic Year (2020-2021)

ELECTRICAL AND ELECTRONICS ENGINEERING(2020-2021)				
s.no	Name of the student placed	Enrollment No	Name of the Employer	Appointment letter with reference no with date
1	AARTHI V	17EE001	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	Dt: 23.3.2021
2	AHMED ASATH A	17EE003	MIKROSUN TECHNOLOGY,SALEM	Dt:4.5.2021
3	ARUNKUMAR C	17EE006	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	Dt: 23.3.2021
4	ARUNPRASATH M	17EE007	MOBITECH WIRELESS SOLUTION PRIVATE LIMITED,PERUNDURAI	Dt:15.3.2021
5	ASHIK S P	17EE008	MOBITECH WIRELESS SOLUTION PRIVATE LIMITED,PERUNDURAI	Dt:18.3.2021
6	BALAMUNISWARAN C	17EE009	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	Dt: 23.3.2021

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7	BARATH KUMAR V	17EE010	MIKROSUN TECHNOLOGY,SALEM	Dt:4.5.2021
8	DEENADHAYALAN S	17EE011	S POWER ENGINEERS,CHENNIMALAI	Dt:28.7.2021
9	DEEPAK R	17EE012	MIKROSUN TECHNOLOGY,SALEM	Dt:4.5.2021
10	DHARANEESH P V	17EE014	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	Dt: 23.3.2021
11	DHARMAN P	17EE015	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	Dt: 23.3.2021
12	DHARSHNI S	17EE017	FOCUS EDUMATICS	Dt:6.1.2021
13	DHINESH M	17EE018	EXPLEO SOLUTIONS LIMITED,CHENNAI	Dt:8.6.2021
14	DINESH D	17EE019	INFANT JESUS ENGINEERING WORKS,COIMBATORE	Dt:2.6.2021
15	DINESH J	17EE020	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	Dt: 23.3.2021
16	DINESHKUMAR R	17EE021	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	Dt: 23.3.2021
17	ELANGO S	17EE022	LAKSHMI ELECTRICALS PRIVATE LIMITED,COIMBATORE	Dt:17.2.2021
18	ELLEYHARAJHA M	17EE023	MIKROSUN TECHNOLOGY,SALEM	Dt:4.5.2021
19	GOKULRAJA S	17EE025	TCS,CHENNAI	Ref: TCSL/DT20195 137586/Chennai Dt:5.8.2021
20	GOWTHAM S	17EE027	SPIC -TUTICORIN	Dt:30.3.2021
21	GOWTHAM SHANKAR D	17EE028	LAKSHMI ELECTRICALS PRIVATE LIMITED,COIMBATORE	Dt:17.2.2021
22	GURUMOORTHIN	17EE030	S POWER ENGINEERS,CHENNIMALAI	Dt:28.7.2021



23	HARIHARAN S	17EE031	SRI SHANMUGA ENGINEERING WORKS,TIRUCHENGODE	Dt:14.7.2021
24	HARIKRISHNAN.N	17EE032	EXPLEO SOLUTIONS LIMITED	Dt:8.6.2021
25	ILAMPARITHI N V	17EE034	INFANT JESUS ENGINEERING WORKS,COIMBATORE	Dt:2.6.2021
26	ILANGO S	17EE035	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	Dt: 23.3.2021
27	JEEVA M	17EE036	MIKROSUN TECHNOLOGY,SALEM	Dt:4.5.2021
28	KARTHICKH RAGHUNATH P S	17EE038	INFANT JESUS ENGINEERING WORKS,COIMBATORE	Dt:2.6.2021
29	KAVIN KUMAR S	17EE039	MIKROSUN TECHNOLOGY,SALEM	Dt:4.5.2021
30	KEERTHIVASAN S	17EE040	INFANT JESUS ENGINEERING WORKS,COIMBATORE	Dt:2.6.2021
31	KOUSHIKA B	17EE041	CAPGEMINI	Ref:15411719
32	MOHAMMED AKMALUDEEN S	17EE044	EXPLEO SOLUTIONS LIMITED	Dt:21.6.2021
33	NANDHA KUMAR A	17EE046	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	Dt: 23.3.2021
34	NANDHINI M K	17EE047	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	Dt: 23.3.2021
35	NARESHKUMAR E	17EE048	S POWER ENGINEERS,CHENNIMALAI	Dt:28.7.2021
36	NAVIN C	17EE049	S POWER ENGINEERS,CHENNIMALAI	Dt:28.7.2021
37	NAVIN KS	17EE050	MIKROSUN TECHNOLOGY,SALEM	Dt:4.5.2021
38	RAJ VIGNESH A S	17EE055	MIKROSUN TECHNOLOGY,SALEM	Dt:4.5.2021
	RAJA S	17EE056	NEXWARE TECHNOLOGIES	Dt: 23.3.2021



39			PRIVATE LIMITED,COIMBATORE	
40	RAJKUMAR K	17EE060	FOCUS EDUMATICS	Dt:6.1.2021
41	RAMANI SHANKAR V B	17EE061	MIKROSUN TECHNOLOGY,SALEM	Dt:4.5.2021
42	RAVIPRASANTH N	17EE062	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	Dt: 23.3.2021
43	SAKTHISIVA RAJA M	17EE063	CTS,CHENNAI	Ref:14938375 Dt:22.3.2021
44	SANDHIYA B	17EE065	EXPLEO SOLUTIONS LIMITED	Ref:EXP/GET/2 1-22/OFF/052 Dt:28.6.2021
45	SANTHOSHKUMAR S P	17EE067	SPOWER ENGINEERS,CHENNIMALAI	Dt:28.7.2021
46	SAPTHAGIRIVASAN S R	17EE068	INFANT JESUS ENGINEERING WORKS,COIMBATORE	Dt:2.6.2021
47	SASINTHARA G	17EE069	MIKROSUN TECHNOLOGY,SALEM	Dt:4.5.2021
48	SHALINI M	17EE071	SPICEJET,MADURAI	Ref:HRD/JIL/09 1 Dt:19.1.2021
49	SINDHUJA R	17EE073	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	Dt: 23.3.2021
50	SINDHUPRIYA R	17EE074	EXPLEO SOLUTIONS LIMITED	Dt:8.6.2021
51	SRI BHARATHI M	17EE075	MIKROSUN TECHNOLOGY,SALEM	Dt:4.5.2021
52	SUBHASHINI V	17EE076	WEBLOGIC SYSTEMS,SALEM	Dt:19.2.2021
53	SUGEETH V	17EE077	CTS,CHENNAI	Ref:15411720 Dt:28.4.2021
54	SURESH S	17EE078	INFANT JESUS ENGINEERING WORKS,COIMBATORE	Dt:2.6.2021
55	SURYADEEPAN V	17EE079	MIKROSUN TECHNOLOGY,SALEM	Dt:4.5.2021
56	THAZHAIMUTHU K	17EE080	INFANT JESUS ENGINEERING WORKS,COIMBATORE	Dt:2.6.2021
	THIRUNAVUKARASU K	17EE081	NEXWARE TECHNOLOGIES PRIVATE	





57			LIMITED,COIMBATORE	Dt:23.3.2021
58	VENKATACHALAMANI K	17EE083	INFANT JESUS ENGINEERING WORKS,COIMBATORE	Dt:2.6.2021
59	VIJAYAKUMAR K	17EE084	MIKROSUN TECHNOLOGY,SALEM	Dt:4.5.2021
60	VISALINI S	17EE085	CTS,CHENNAI	Ref: 15411719 22.3.2021
61	BALAGANGADHARAN M	17EEL02	FOCUS EDUMATICS	Dt:6.1.2021
62	MANIBHARATHI S	17EEL06	INFANT JESUS ENGINEERING WORKS,COIMBATORE	Dt:2.6.2021
63	NACHIMUTHU S	17EEL07	MIKROSUN TECHNOLOGY,SALEM	Dt:4.5.2021
64	NAGARJUN D	17EEL08	LAKSHMI ELECTRICALS PRIVATE LIMITED,COIMBATORE	Dt:17.2.2021
65	RAJKUMAR S	17EEL09	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	Dt: 23.3.2021
66	SATHISHKUMAR P	17EEL10	MIKROSUN TECHNOLOGY,SALEM	Dt:4.5.2021
67	SUDHAN P	17EEL11	INFANT JESUS ENGINEERING WORKS,COIMBATORE	Dt:2.6.2021
68	VIGNESH L	17EEL14	FOCUS EDUMATICS	Dt:6.1.2021
69	VINOSH T	17EEL15	MIKROSUN TECHNOLOGY,SALEM	Dt:4.5.2021
70	ARCHANA K R	17EE004	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	Dt:23.3.2021
71	DEVIKA L	17EE013	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	Dt:23.3.2021
72	DHARSHANA E	17EE016	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	Dt:23.3.2021

TABLE B.4.4. a.3 Placement details for the Academic Year(2019-2020)



ELECTRICAL AND ELECTRONICS ENGINEERING(2019-2020)				
s.no	Name of the student placed	Enrollment No	Name of the Employer	Appoinment letter with reference no with date
1	AARTHIKA A	16EE001	HCL TECHNOLOGIES,CHENNAI	Dt:3.2.2020
2	BOWYA V	16EE004	WISTRON INFOCOMM MANUFACTURING PRIVATE LIMITED,BANGLORE	Dt:19.02.2021
3	DHANABAL E	16EE005	LUCAS TVS , CHENNAI	Dt:20.1.2020
4	DINESH M	16EE006	CTS,CHENNAI	Dt:28.1.2020
5	GOKUL SABARI M M	16EE008	PAGE SOLUTIONS PRIVATE LIMITED TEMENOS,CHENNAI	Dt:12.10.2020
6	GOKULALAKSHMI N	16EE010	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	Dt:3.9.2019
7	KALAIVANAN.V	16EE012	MIKROSUN TECHNOLOGY,SALEM	Dt:8.8.2019
8	KAVIN C	16EE014	LUCAS TVS,CHENNAI	Dt:10.1.2020
9	KIRUTHIKA.D	16EE015	NEWGEN INFOTECH PRIVATE LIMITED	Dt 12.12.2019
10	KORKAIVENDHAN J	16EE016	LUCAS TVS,CHENNAI	Dt:10.1.2020
11	MAGESH BOOPATHI C	16EE018	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	Dt:3.9.2019
12	MAIYYAPPAN V	16EE019	WIBRO TECHNOLOGIES,CHENNA HEXWARE TECHNOLOGIES,CHENNAI	Ref no:9245838 Dt:9.12.2019  Dt:19.11.2019
13	NIGESH R	16EE023	MIKROSUN TECHNOLOGY,SALEM	Dt:8.8.2019
14	PRABHAKARAN M	16EE024	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	Dt:3.9.2019
15	PREMRAJKUMAR D	16EE025	NEWGEN INFOTECH PRIVATE LIMITED	Dt 7.08.2019
16	PUGALENTHIRAN M	16EE027	LUCAS TVS,CHENNAI	Dt:20.1.2020
17	RAGUNATHAN V	16EE028	LUCAS TVS,CHENNAI	Dt:20.1.2020
18	RAJA K	16EE029	HCL TECHNOLOGY LIMITED LUCAS TVS,CHENNAI	Dt:3.12.2020  Dt:10.1.2020
19	RAM VINOTH KUMAR C	16EE030	MIKROSUN TECHNOLOGY,SALEM	DT:8.8.2019
20	RAMKUMAR A	16EE031	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	DT:3.9.2019
21	RANJITH M	16EE032	DATAPATTERNS,CHENNAI	Dt:6.11.2019
22	RAVI SHANKAR.K	16EE033	MIKROSUN TECHNOLOGY,SALEM	DT:8.8.2019

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23	RENUGA DEVI R	16EE034	MIKROSUN TECHNOLOGY,SALEM	DT:8.8.2019
24	SANGEETHA S	16EE035	NEWGEN INFOTECH PRIVATE LIMITED	DT 7.08.2019
25	SIVA KUMAR V	16EE037	LUCAS TVS	Dt:10.1.2020
26	SRINIVASAPRASAD S	16EE038	HCL TECHNOLOGIES	Dt:3.12.2020
27	UDHAYA KUMAR.S	16EE041	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	DT:3.9.2019
28	VASANTH S	16EE042	NEWGEN INFOTECH PRIVATE LIMITED	DT 7.08.2019
29	VIGNESH T	16EE043	LUCAS TVS	Dt:10.1.2020
30	VINOTH.A.D	16EE045	THINK AND LEARN PRIVATE LIMITED,COIMBATORE	Dt:4.5.2021
31	ARUL PRAKASH C	16EEL02	MIKROSUN TECHNOLOGY,SALEM	DT:8.8.2019
32	ARUN S	16EEL03	LUCAS TVS	Dt:10.1.2020
33	GOPALAKRISHNAN R	16EEL07	MIKROSUN TECHNOLOGY,SALEM	DT:8.8.2019
34	HISI JEMU	16EEL08	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	Dt:3.9.2019
35	LAKSHMANAKUMAR S	16EEL10	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	Dt:3.9.2019
36	PRIYADHARSAN V	16EEL12	LUCAS TVS	Dt:10.1.2020
37	SRIDHARAN P	16EEL14	LUCAS TVS	Dt:10.1.2020
38	SURYA A	16EEL15	MIKROSUN TECHNOLOGY,SALEM	Dt:8.8.2019
39	VIGNESH K	16EEL16	LUCAS TVS	Dt:10.1.2020
40	GNANSENTHILNATHAN S	16EE007	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	Dt:3.9.2019
41	KRISHNA KUMAR M	16EE017	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	Dt:3.9.2019
42	MANICKAM N	16EE020	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	Dt:3.9.2019
43	VINO G V	16EE044	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	Dt:3.9.2019
44	ABINESH C	16EEL01	MIKROSUN TECHNOLOGY,SALEM	Dt:8.8.2019
45	ETHELBERT SANGRIONG	16EEL06	MIKROSUN TECHNOLOGY,SALEM	Dt:8.8.2019
46	KRISHNAMOORTHY R	16EEL09	MIKROSUN TECHNOLOGY,SALEM	Dt:8.8.2019
47	MOHAMED ABDUL WAHAB M	16EEL11	MIKROSUN TECHNOLOGY,SALEM	Dt:8.8.2019

TABLE B.4.4.a.4 Placement Details for the Academic Year(2018-2019)

ELECTRICAL AND ELECTRONICS ENGINEERING(2018-2019)				
s.no	Name of the student placed	Enrollment No	Name of the Employer	Appoinment letter with reference no with



				date
1	ANISH .R	15EE002	LAKSHMI ELECTRICAL CONTROL SYSTEM PRIVATE LIMITED,COIMBATORE	Dt:14.2.2019
2	ANJANADEV I. B	15EE003	TATA CONSULTANCY SERVICES.  KGISL,COIMBATORE	Ref no:TCSL/DT20184488 1848.Dt:26/07/2019  Ref no:HRD/OFFER/02
3	ARUN N	15EE004	INFANT JESUS ENGINEERING WORKS,COIMBATORE	Dt:22.3.2019
4	MANIK REDDY B	15EE005	INFANT JESUS ENGINEERING WORKS,COIMBATORE	Dt:22.3.2019
5	BHARATH .T	15EE006	VEE TECHNOLOGIES,COIMBA TORE	Dt:19.2.2019
6	BOOPATHI RAJA B	15EE009	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	Dt:24.08.2018
7	BOOPATHI RAJA R	15EE010	AB ACADEMY,COIMBATORE	Dt:25.9.2018
8	DEEPAK RAJ G	15EE011	INFANT JESUS ENGINEERING WORKS,COIMBATORE	Dt:22.3.2019
9	DARSHINI L	15EE012	MIKROSUN TECHNOLOGY,SALEM	DT:26.3.2019
10	DHIVAGAR K	15EE013	AB ACADEMY,COIMBATORE	Dt:25.9.2018
11	DINESH KUMAR S	15EE014	MIKROSUN TECHNOLOGY,SALEM	Dt:26.3.2019
12	DINESH PRABU S	15EE016	MIKROSUN TECHNOLOGY,SALEM	Dt:26.3.2019
13	GANDHI K	15EE018	SCHNEIDER ELECTRIC PRIVATE LIMITED,CHENNAI	Dt:3.5.2019
14	GARUNYAA S	15EE019	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	DT:24.08.2018
15	GAYATHRI M	15EE020	MIKROSUN TECHNOLOGY,SALEM	DT:26.3.2019
16	GIRIDHARAN R	15EE021	NCR,CHENNAI	Dt: 3.4.2019
17	GOKULNATH . S	15EE022	LAKSHMI ELECTRICAL CONTROL SYSTEM PRIVATE LIMITED,COIMBATORE	Dt:14.2.2019
18	GOKUL S	15EE024	AB ACADEMY,COIMBATORE	Dt:25.9.2018
	GOWTHAM J K	15EE025	NEXWARE	DT:24.08.2018

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19			TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	
20	HARIKRISHNAN .M	15EE026	LAKSHMI ELECTRICAL CONTROL SYSTEM PRIVATE LIMITED,COIMBATORE SURE SOFT SYSTEM PRIVATE LIMITED, PONDICHERRY	Dt:14.2.2019
21	HITESH KUMAR R	15EE028	AB ACADEMY,COIMBATORE	Dt:25.9.2018
22	JANARTHANAN A	15EE029	NCR,CHENNAI	Dt: 3.4.2019
23	JEEVANANDHAM.G	15EE031	CRI PUMPS,SIPCOT.	Dt:12.3.2019
24	JEEVARAJ .A	15EE032	LAKSHMI ELECTRICAL CONTROL SYSTEM PRIVATE LIMITED,COIMBATORE	Dt:14.2.2019
25	KANCHANADEVI .N	15EE033	AMPENOL INTERCONNECTION,CHE NNAI.	Dt:7.3.2019
26	KANNAN .S	15EE034	LAKSHMI ELECTRICAL CONTROL SYSTEM PRIVATE LIMITED,COIMBATORE	Dt:14.2.2019
27	KARAN P	15EE035	MIKROSUN TECHNOLOGY,SALEM	DT:26.3.2019
28	KARTHICK R	15EE036	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	DT:24.08.2018
29	KARTHICK KUMAR R	15EE037	INFANT JESUS ENGINEERING WORKS	Dt:22.3.2019
30	KARTHIKEYAN N	15EE038	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	Dt:24.08.2018
31	KARTHICK SELVAN R	15EE039	AB ACADEMY,COIMBATORE	Dt:25.9.2018
32	KATHIRAVAN .R	15EE040	SCHNEIDER ELECTRIC PRIVATE LIMITED,CHENNAI LAKSHMI ELECTRICAL CONTROL SYSTEM PRIVATE LIMITED,COIMBATORE	Dt:3.5.2019 Dt:14.2.2019
33	KATHIRVEL M	15EE041	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	DT:24.08.2018
34	KEERTHANA M	15EE042	AB ACADEMY,COIMBATORE	Dt:25.9.2018
35	KIRUTHIKA KS	15EE043	MIKROSUN TECHNOLOGY,SALEM	DT:26.3.2019
36	KOKILA P	15EE044	NEXWARE TECHNOLOGIES PRIVATE	DT:24.08.2018



			LIMITED,COIMBATORE	
37	KOKILAVANI S	15EE045	AB ACADEMY,COIMBATORE	Dt:25.9.2018
38	VENKATA SURENDRA K	15EE046	MIKROSUN TECHNOLOGY,SALEM	DT:26.3.2019
39	KRISHNA RAJ .C	15EE047	RAMDEV MOTORS,COIMBATORE	Dt:4.12.2018
40	LOGESWARAN K	15EE048	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	DT:24.08.2018
41	LOGESWARAN .S	15EE049	ABACADEMY,COVAL.	Dt:25.9.2018
42	MAHESH. C	15EE050	NCR,CHENNAI	Dt: 3.4.2019
43	MANIKANDAN G	15EE051	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	DT:24.08.2018
44	MANIMARAN S	15EE052	AB ACADEMY,COIMBATORE	Dt:25.9.2018
45	MANOJ KUMAR M	15EE054	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	DT:24.08.2018
46	MATHIVATHANI A	15EE055	AB ACADEMY,COIMBATORE	Dt:25.9.2018
47	NANDHAKUMAR P	15EE058	MIKROSUN TECHNOLOGY,SALEM	DT:26.3.2019
48	NANDHINI .S	15EE059	TCS ION QUALIFIER,COCHIN ETHNUS SYSTEMS,BANGLORE	Ref:TCSL/DT2018448 2038,Dt:6/02/2019 Dt:2.11.2019
49	NAVINKUMAR S	15EE061	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	DT:24.08.2018
50	PARTHIBAN V	15EE062	INFANT JESUS ENGINEERING WORKS,COIMBATORE	Dt:22.3.2019
51	PEPPATTO A	15EE064	INFANT JESUS ENGINEERING WORKS,COIMBATORE	Dt:22.3.2019
52	PRAVEEN KUMAR. T	15EE067	RAMDEV MOTORS,COIMBATORE	Dt:4.12.2018
53	PRAVEEN . P	15EE068	LAKSHMI ELECTRICAL CONTROL SYSTEM PRIVATE LIMITED,COIMBATORE	Dt:14.2.2019
54	PRAVIN J	15EE070	MIKROSUN TECHNOLOGY,SALEM	Dt:26.3.2019
55	PRIYATHARSHINI D B	15EE072	AB ACADEMY,COIMBATORE	Dt:25.9.2018
56	RAGUPATHI .M	15EE073	ICORE TECHNOLOGIES,BANGLO RE	Dt:15.9.2018
	RAMYA. G	15EE075	ABACADEMY,COIMBATO	Dt:25.9.2018





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58	RAVICHANDRAN.P	15EE077	RAMDEV MOTORS,COIMBATORE	Dt:4.12.2018
59	RENUGADEVI S	15EE078	AB ACADEMY,COIMBATORE	Dt:25.9.2018
60	ROSHINI .G	15EE079	AB ACADEMY,COIMBATORE	Dt:25.9.2018
61	SABARI. P	15EE080	LAKSHMI ELECTRICAL CONTROL SYSTEM PRIVATE LIMITED,COIMBATORE	Dt:14.2.2019
62	SANGEETHA .M	15EE083	CAPGEMINI,BANGLORE	Ref no:HR/Campus/L02019 42484/1,Dt:6.12.2018
63	SARATHKUMAR S	15EE087	MIKROSUN TECHNOLOGY,SALEM	Dt:26.3.2019
64	SATHEESH. R	15EE088	LAKSHMI ELECTRICAL CONTROL SYSTEM PRIVATE LIMITED,COIMBATORE	Dt:14.2.2019
65	SATHISH KUMAR T	15EE089	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	DT:24.08.2018
66	SHALINI R	15EE091	MIKROSUN TECHNOLOGY,SALEM	DT:26.3.2019
67	SIVAKUMAR P	15EE092	INFANT JESUS ENGINEERING WORKS,COIMBATORE	Dt:22.3.2019
68	SOUNDARARAJAN P	15EE093	INFANT JESUS ENGINEERING WORKS,COIMBATORE	Dt:22.3.2019
69	SUBASH .T	15EE094	CAPGEMINI,BANGLORE	Ref no:HR/Campus/L02019 42483/1,Dt:6.12.2018
70	SUBBURATHINAM K M	15EE095	AB ACADEMY,COIMBATORE	Dt:25.9.2018
71	SURENDRAN V P	15EE097	MIKROSUN TECHNOLOGY,SALEM	DT:26.3.2019
72	SURESH .M	15EE098	AKCHAYYA GROUP OF COMPANY, COIMBATORE	DT: 27.3.2019
73	SUVARAJ C	15EE099	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	DT:24.08.2018
74	THIVISRI V	15EE101	AB ACADEMY,COIMBATORE	Dt:25.9.2018
75	THOGAIVEL M	15EE102	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	Dt:24.08.2018
76	THULASIMANI .S	15EE103	TATA CONSULTANCY SERVICES PRIVATE LIMITED, WEBBERAX SYSTEMS,CHENNAI	Ref:TCSL/DT2018450 6442/Pune Dt:18.2.2021 DT:18.3.2019
77	UMA MAGESHWARI R	15EE104	AB	Dt:25.9.2018




			ACADEMY,COIMBATORE	
78	VENKATACHALAM .K	15EE105	LAKSHMI ELECTRICAL CONTROL SYSTEM PRIVATE LIMITED,COIMBATORE	Dt: 14.2.2019
79	VIGNESH. P	15EE106	RAMDEV MOTORS,COIMBATORE	Dt:4.12.2018
80	DEEPIKA .N	15EEL01	MIKROSUN TECHNOLOGY,SALEM	DT:26.3.2019
81	GOWTHAMAN .R	15EEL02	NEXWARE TECHNOLOGIES PRIVATE LIMITED,COIMBATORE	DT:24.08.2018
82	KRISHNA KUMAR .S	15EEL04	LAKSHMI ELECTRICAL CONTROL SYSTEM PRIVATE LIMITED,COIMBATORE	Dt: 14.2.2019
83	LOKESH .B	15EEL05	TCS NINJA,CHENNAI	Ref:TCSL/DT2018452 3267,Dt:6/02/chennai, Dt:1/10/2018
84	NAVEENKUMAR K	15EEL06	INFANT JESUS ENGINEERING WORKS,COIMBATORE	Dt:22.3.2019
85	NISANTH .R	15EEL07	AB ACADEMY,COIMBATORE	Dt:25.9.2018
86	RANJITHKUMAR S	15EEL10	MIKROSUN TECHNOLOGY,SALEM	Dt:26.3.2019
87	SARAVANAKUMAR S	15EEL11	MIKROSUN TECHNOLOGY,SALEM	Dt:26.3.2019
88	SHANTHI .E	15EEL12	MIKROSUN TECHNOLOGY,SALEM	DT:26.3.2019
89	TAMILSELVAN .S	15EEL13	AB ACADEMY,COIMBATORE	Dt:25.9.2018

**4.5. Professional Activities****(20)****Self Assessment (20)****4.5.1. Professional societies/chapters and organizing engineering events****(5)****Self Assessment (5)****TABLE B.4.5.1.a Professional Societies/Chapters**

S.No	Professional societies/chapters	Logo
1	Institute of Electrical and Electronics Engineering (IEEE)	
2	Indian Society of Technical Education (ISTE)	



3	ICT Academy of Tamilnadu (ICTACT)	
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### Organizing Engineering Events

**TABLE B .4.5.1.b IEEE Activities for the Academic year 2018-2019**

S.No	Professional Body	Title of the events	Resource persons	Date
1	IEEE	IEEE Day Celebrations	Dr.S.Arumugam Branch Counselor	25.10.2018
2	IEEE	Hands-on Training – “How to become a member in IEEE”	Dr.K.Sadagopan Chief Librarian	04.04.2019

**TABLE B.4.5.1.c IEEE Activities for the Academic year 2019-2020**

S.No	Professional Body	Title of the events	Resource persons	Date
1	IEEE	“IEEE Awareness Meet for Freshers” – A series approach	Dr.S.Arumugam Senior IEEE member	9.10.19 to 11.10.19 14.10.19 to 16.10.19
2	IEEE	Importance of IEEE and its Societies for CSE	Dr.S.Arumugam Senior IEEE member	21.10.2019
3	IEEE	Importance of IEEE and its Societies for EEE	Mr.P.Krishna Gandhi Branch Coordinator	23.10.2019
4	IEEE	Hands-on Session – How to be a member in IEEE Societies	Dr.K.Sadagopan Chief Librarian	29.10.2019
5	IEEE	Product Development Phases – Story Telling	Mr.D.Subramanian Technical Assistant, CiPD	13.11.2019
6	IEEE	Awareness Campaigns on Electric Vehicle and its Benefit for Society	Mr.P.Prasanthkumar Senior Technical Trainer, Devices Electronics Pvt.Ltd	11.02.2020

**TABLE B .4.5.1.d IEEE Activities for the Academic year 2020-2021**

S.No	Professional Body	Title of the events	Resource persons	Date
1	IEEE	Innovations in Intellectual Property Rights	Dr.D.Balaji Head – IPR, KPRIET	12.03.2021
2	IEEE	Startup – An Opportunity for Career Enhancement	Mr.P.Krishna Gandhi Branch Coordinator	16.03.2021
3	IEEE	How to write an Effective business plan	Mr.P.Krishna Gandhi Branch Coordinator	29.03.2021

**TABLE B .4.5.1.e IEEE Activities for the Academic year 2021-2022**



S.No	Professional Body	Title of the events	Resource persons	Date
1	IEEE	Conservation and Judicial Usage of Energy for Future	Dr.S.Senthil Kumar Head i/c – EEE, University College of Engineering Ariyalur	27.10.2021

### Department Association of Electrical and Electronics Engineering

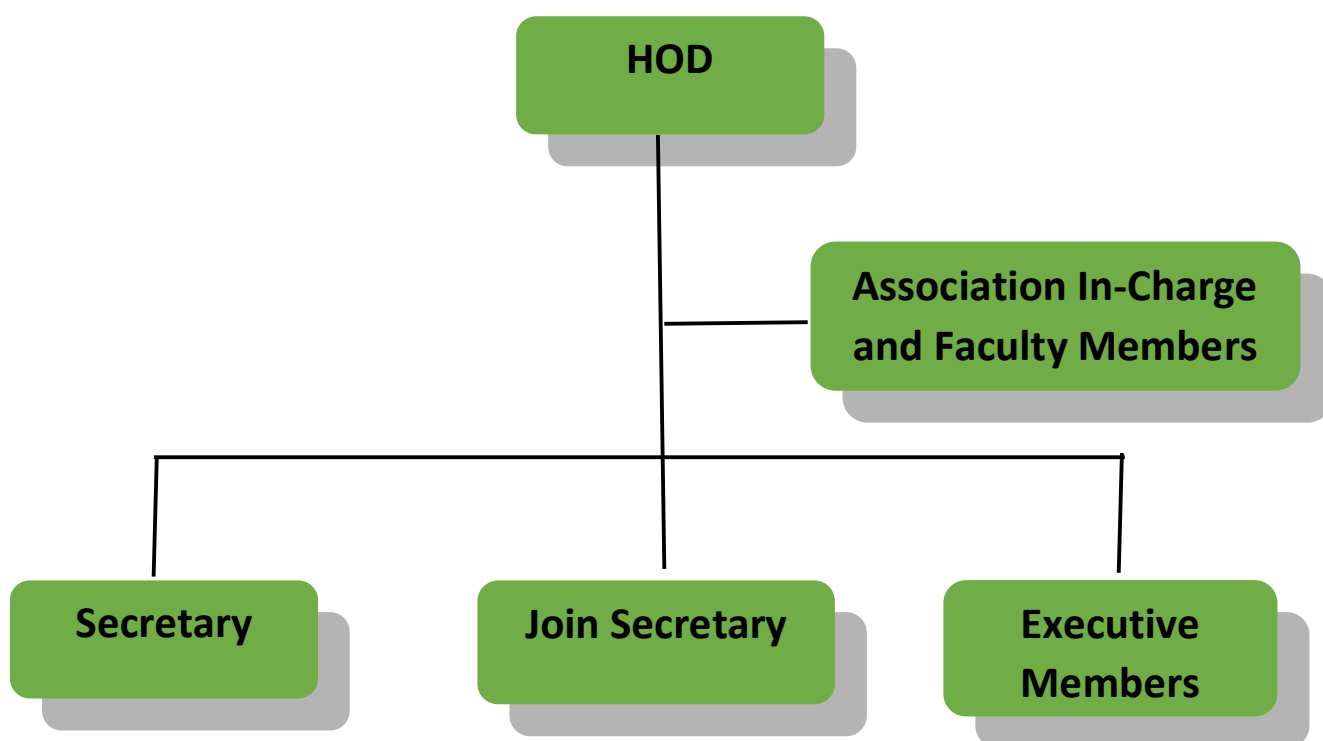


Figure B.4.5.1 Organization structure of Association of EEE

#### Association In-charge:

- Will plan the activities jointly with office bearers and interface with the HOD, Faculty and Students.

#### Association of EEE -RADIX 2k21

TABLE B.4.5.1.f Department Activities for the Academic Year 2021-2022

S.No	DATE	NAME OF THE EVENT AND TITLE	RESOURCE PERSON	PARTICIPANTS	SNAP SHOT
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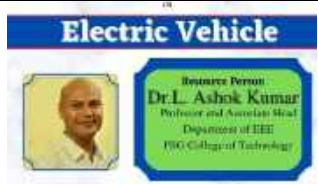


1	20.9.2021	INDUSTRIAL SEMINAR ON “FULL STACK DEVELOPMENT MEAN STACK”	Ms.N.Subharathna Technical Engineer Livewire Technologies Chennai	IV Yr	
2	27.10.2021	WEBINAR ON “CONSERVATION AND JUDICIAL USAGE OF ENERGY FOR FUTURE”	Dr.S.SENTHILKUMAR HOD- I/C DEPARTMENT OF EEE UNIVERSITY COLLEGE OF ENGINEERING ARIYALUR	II & III Year	
3.	1.11.2021	ACADEMIC WEBINAR ON “MACHINE LEARNING”	DR.T.ANANTHAN ASSISTANT PROFESSOR (SG) DEPARTMENT OF EEE AMRITA VISHWA VIDHYAPEETHAM, COIMBATORE	III Year	
4.	23.11.2021	ONLINE WORKSHOP ON “GRID CONNECTED AND STAND-ALONE SOLAR PLANT DESIGN USING PVSYST”	Er.Selva Kumar Business Head Power Projects chennai	III Year	






TABLE B. 4.5.1.g Department Activities for the Academic Year 2020-2021



S.No	DATE	NAME OF THE EVENT AND TITLE	RESOURCE PERSON	PARTICIPANTS	SNAP SHOT
1	19.07.20	National Webinar on New Desire	Shri.K.Mahendran, Addl General Manager, Seamless Steel Tube Plant, BHEL, Trichy	III Yr EEE	
2	26.07.20	National Webinar on Innovation in intellectual Property Rights (IPR)	Dr.D.Balaji Patent Agent (IN/PA-3549) Honorary Doctrate-Patent Field	IV & III Yr EEE	
3.	27.07.20	National Webinar on PLC and SCADA for Industrial Automation	Dr.C.Maheswari, Associate Professor, Department of Mechatronics Engineering, Kongu Engineering College	II Yr EEE	
4.	02.02.21	Association Inaugural & Industrial Webinar	Mr.AshokSethuraman, BEE Accredited Energy Auditor, Coimbatore.	All Four Years of EEE	

5.	11.02.2021	Academic Webinar on Electric Vehicle	Dr.L.Ashok Kumar, Professor and Associate Head, Department of EEE, PSG College of Technology	III Yr EEE	
6.	12.03.2021	National Webinar on “Patent – A career enhancement opportunity to Academicians and Researchers”	Dr.D.Balaji Patent Agent (IN/PA-3549) Honorary Doctrate-Patent Field	IV & III Yr EEE	
7.	22.03.2021	Intra Department Meet	-	All Four Years of EEE	

## Academic Year 2019-2020





TABLE B.4.5.1h Department Activities for the Academic Year 2019-2020

S.No	DATE	NAME OF THE EVENT AND TITLE	RESOURCE PERSON	PARTICIPANTS	SNAP SHOT
1	15.07.2019	Industrial Instruments with Real Time Applications	Mr.M.Parthiban, Senior Engineer, Caliber Embedded Technologies India (P) Ltd, Coimbatore	II Yr EEE	
2	30.08.2019	Industrial Revolution in Electrical and Electronics Engineering	Dr.T.Gunasekaran, Program Director Telecom, Higher College of Technology, Oman.	III Yr EEE	
3.	18.09.2019	Recent Developments in AUTOCAD Electrical,Blockchain & IOT	Mr.R.Prabhakaran, Manager, Live Wire Technologies	IV Yr EEE	
4.	23.09.2019	Hands on Training on Converter and Inverter Design	Mr.M.Parthiban, Managing Director, Logic Mind Technologies, Bangalore.	III Yr EEE	
5.	11.02.2020	Awareness Campaigns on Electrical Vehicle and its benefits for Society	Mr.P.PRASHANTHKUMAR, Automotive Consultant & Technical Trainer, HarithaTechnogix, Bangalore	IV Yr EEE	

6.	03.03.2020	Opportunities in the field of Electrical Engineer	Mr.T.ANAND, Managing Director, Swifterz Technologies, Coimbatore.	III Yr EEE	
7.	07.03.2020	Hands on Training on Linear Integrated Circuits	Mr.JAGATHAGURU MARIMUTHU, Managing Director, Illuminen Technologies, Coimbatore.	II Yr EEE	

## Academic Year 2018-2019

TABLE B.4.5.1i Department Activities for the Academic Year 2018-2019

S.No	DATE	NAME OF THE EVENT AND TITLE	RESOURCE PERSON	PARTICIPANTS	SNAP SHOT
1.	06.10.2018	Department Inaugural	Mr.C.KATHIRVELU Additional General Manager, BHEL, Tiruchi.	All Four Years of EEE	
2.	06.10.2018	Industrial Seminar on Promising solution for renewable energy sources	Mr.C.KATHIRVELU Additional General Manager, BHEL, Tiruchi.	All Four Years of EEE	
3.	19.02.2019	Industrial Seminar on Applied power system and opportunities in power sector	Mr.V.S.NIVEDHAN Senior Engineer, Power Projects,Chennai	III Yr EEE	
4.	21.03.2019	Symposium	Smt.GEETHA RANI S R Manager, SMEC Automation,Coimbatore	All Four Years of EEE	

## 4.5.2. Publication of technical magazines, newsletters, etc.

(5)

## Self Assessment (5)

Table B.4.5.2.a Publication details for the Academic year 2018-2019

S.No	Title of the events	Date	Volume and Issue No.	Page No.	Name of the Editor	Publishers
1	IEEE Day Celebrations	25.10.2018	16 and 04	13	Dr. S. Joseph Gladwin	IEEE Madras Section
2	Hands-on Training – “How to become a member in IEEE”	04.04.2019	16 and 02	10	Dr. S. Joseph Gladwin	IEEE Madras Section





FIGURE B.4.5.2.a IEEE Day celebrations on 25.10.2018



FIGURE B.4.5.2.b How to become a member in IEEE on 04.04.2019

Table B.4.5.2.b Publication details for the Academic year 2019-2020

S.No	Title of the events	Date	Volume and Issue No.	Page No.	Name of the Editor	Publishers
1	"IEEE Awareness Meet for Freshers" – A series approach	9.10.19 to 11.10.19 14.10.19 to 16.10.19	16 and 05	18	Dr. S. Joseph Gladwin	IEEE Madras Section
2	Importance of IEEE and its Societies for CSE	21.10.2019	16 and 05	18	Dr. S. Joseph Gladwin	IEEE Madras Section
3	Importance of IEEE and its Societies for EEE	23.10.2019	16 and 05	18	Dr. S. Joseph Gladwin	IEEE Madras Section
4	Hands-on Session – How to be a member in IEEE Societies	29.10.2019	16 and 05	18	Dr. S. Joseph Gladwin	IEEE Madras Section
5	Product Development Phases – Story Telling	13.11.2019	16 and 05	19	Dr. S. Joseph Gladwin	IEEE Madras Section

6	Awareness Campaigns on Electric Vehicle and its Benefit for Society	11.02.2020	17 and 01	19	Dr. S. Joseph Gladwin	IEEE Madras Section
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FIGURE B.4.5.2.c IEEE Awareness Meet Fresher's – A Series Approach from 9.10.19 to 16.10.19 and Importance of IEEE and its Societies for Computer Science and Engineering on 21.10.2019



FIGURE B. 4.5.2.d Importance of IEEE and its Societies for EEE on 23.10.2019 and Hands-on Session – How to become a member in IEEE Societies on 29.10.2019

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***"Product Development Phases – Story Telling"***

IEEE SB in association with Centre for Innovation and Product Development (CiPD) organized a program titled on "Product Development Phases – Story Telling" on 13.11.2019. Dr.S.Arumugam, IEEE Senior Member and IEEE SBC, initiated the program and delivered keynote address about the product development processes and encouraged the students to come forward to do the project into product development.



Mr.P.Krishna Gandhi, IEEE SB Coordinator addressed about the Global Innovation Index India one among top 55 ranking in the world. To motivate the student to show more active participation to do project into a product from first onwards for the career enrichment in future placement perspective. Mr.D.Subramanian, Recipient of Tamilnadu Scientist Award and National Award shared his own experience to the students and explained about the small invention product around the world. He suggested some ideas to students to find the problem statement from in and around real time situations.

**Report by :** Krishna Gandhi P, Assistant Professor,[krishneceee@gmail.com](mailto:krishneceee@gmail.com)

**FIGURE B.4.5.2.e Product Development Phases – Story on 13.11.2019**

**Nandha Engineering College**

***Awareness Campaigns on Electric Vehicle and its Benefits for Society.***

IEEE SB and Department of EEE jointly organized a program titled on "Awareness Campaigns on Electric Vehicle and its Benefits for Society" on 11.02.2020. Dr.N.Rengarajan, Principal, delivered a keynote address about Electric Vehicles. Dr.S.Arumugam, IEEE SB Counsellor, motivated the students to focus and learn the emerging area Electric Vehicle Technologies. Dr.A.Satheesh, IEEE SB organizer about addressed the Electric Vehicles. Mr.P.Krishna Gandhi, IEEE SB Coordinator, introduced chief guest Mr.P.Prasanthkumar, Government of India Certified Trainer (ARAI and MSME).



Mr.P.Prasanthkumar, shared his own experiences to the students and explained about the need for Electric Vehicle Transition in India. He gave an overview on motor and battery technologies for EV's and HEV's. Also, showed the video demonstration about electric vehicle safety and charging station technology. Students showed more interested to ask the interactive questions and clarified with respective doubts.

**Report by:** Krishna Gandhi P, IEEE SB Coordinator and [krishneceee@gmail.com](mailto:krishneceee@gmail.com)

**FIGURE B.4.5.2.f Awareness Campaigns on Electric Vehicle and its Benefits for Society on 11.02.2020**



## 4.5.3 Participation in inter-institute events by students of the program of study (10)

Self Assessment (10)

## 4.5.3.A Events within state



FIGURE 4.5.3A.a Participated in “Becoming an active member in IEEE PELS”



FIGURE 4.5.3A.b Participated in “Who Am I Contest”



FIGURE 4.5.3A.c Participated in "Independence Day – Connection Contest"



FIGURE 4.5.3A.d Participated in "PELS Students and Young Professionals Opportunities"



FIGURE 4.5.3A.e Participated in “Neenga Sollunga Dude – Online Quiz Contest”



FIGURE 4.5.3A.f Participated in “Women Empowerment”



FIGURE 4.5.3A.g Participated in “How to build a Professional Resume”



FIGURE 4.5.3A.h Participated in “Path finder to Competitive exams”



FIGURE 4.5.3A.i Participated in “International Youth Day-Problem Statement Contest”



FIGURE 4.5.3A.j Participated in Expert talk on “Grid Integration of Wind Energy System: Control strategies, Impacts and Challenges”



NANDHA

ENGINEERING COLLEGE (Autonomous)

## 4.5.3.B Events Outside the states



FIGURE 4.5.3B.a Participated in “IEEE Chandigarh Sub-Section Congress”



FIGURE 4.5.3B.b Participated in “Build for India: A step towards Atmanirbhar Bharat” organized by IEEE India Council and IEEE Delhi Section



FIGURE 4.5.3B.c Participated in “Independence Day Quiz Competition”



FIGURE 4.5.3B.d Participated in “Independence Day Artwork & Content Writing Competition”



FIGURE 4.5.3B.e Participated in “Webinar – How Costa Rica became a nearly 100% Renewable Energy Dependent Country”



FIGURE 4.5.3B.f Participated in “IIC National Innovation Contest 2020”



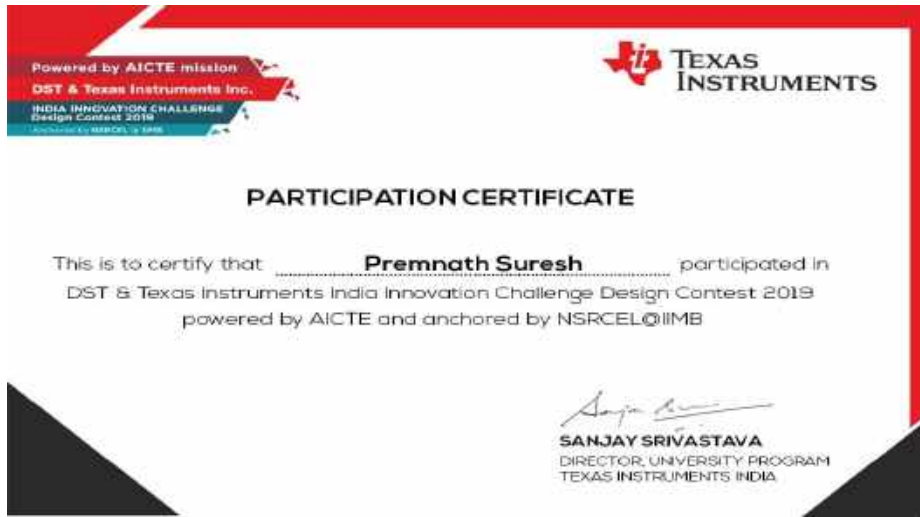


FIGURE 4.5.3B.g Pariticipated in DST & Texas Instruments India Innovation Challenge Design Contest 2019



FIGURE 4.5.3B.h Completed introductory level

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FIGURE 4.5.3B.i Completed intermediate level



FIGURE 4.5.3B.j Completed advanced level



FIGURE 4.5.3B.k NPTEL – Introduction to Smart Grid

**Internship in Abroad**

Internship in Abroad - Research Attachment Program – Universiti Teknologi Malaysia (UTP), Malaysia Students, Parents and Management interaction about the Research programme in Nandha Engineering College and send off on 13.02.2018



FIGURE 4.5.3B.l UTP, Internship Programme Parents Interaction with Management Research Attachment Programme @ Malaysia with University Technology Petronas

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FIGURE 4.5.3B.mStudent Send off for Research Attachment Programme @ Malaysia with University Technology Petronas

#### 4.5.3.C Prizes/awards



FIGURE 4.5.3C.a AICTE-Soul Challenge Winner



FIGURE 4.5.3C.b Recognized as winner in “She is My Role Model Contest”



FIGURE 4.5.3C.c Recognized as winner in “Singapenne”

FIGURE 4.5.3C.d 2<sup>nd</sup> place in Memory Bang ContestFIGURE 4.5.3C.e 3<sup>rd</sup> place in Quiz on Sports ContestFIGURE 4.5.3C.f 1<sup>st</sup> place in Thesis ContestFIGURE 4.5.3C.g 3<sup>rd</sup> place in Pop with Flash Contest



FIGURE 4.5.3.h 1<sup>st</sup> place in Treatise Contest



FIGURE 4.5.3C.i Extra-ordinary performance



FIGURE 4.5.3C.j 3<sup>rd</sup> place in Word Search Contest



FIGURE 4.5.3C.k 1<sup>st</sup> place in Find the Words



FIGURE 4.5.3C.l 1<sup>st</sup> place in E-Marzenia

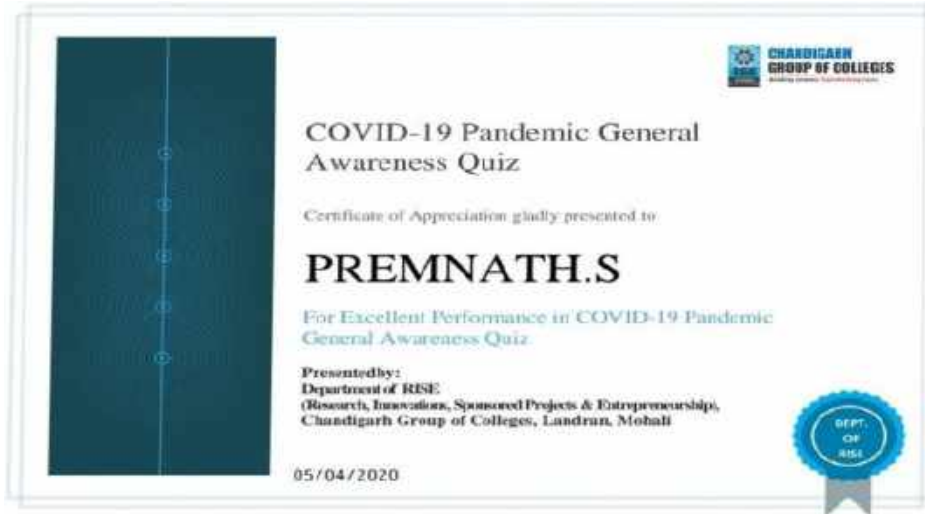


FIGURE 4.5.3C.m Excellent performance in COVID-19 Pandemic General Awareness Quiz



FIGURE 4.5.3C.n Won 3<sup>rd</sup> place out of 500 in National Level Quiz Competition TechTag 2020



FIGURE 4.5.3C.o 2<sup>nd</sup> prize in "Circuit Craze"







FIGURE 4.5.3C.p 2<sup>nd</sup> place in ELECTROFRENZY



FIGURE 4.5.3C.q Appreciation certificate



FIGURE 4.5.3C.r 1<sup>st</sup> prize in Essay writing on “Eradication of Corruption – Build new India”

TABLE B.5.3a Student Achievements in various Events

Academic Year	No of Students Participated in Paper Presentation	No of Students Participated in Project Presentation	No of Students Participated in Conference/	No of Students Participated in other Events	Inside the state	Outside the state
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			Workshop			
2021-2022	19	-	12	71	94	8
2020 – 2021	7	2	15	401	373	49
2019 – 2020	10	13	19	89	127	4
2018 – 2019	4	8	1	48	61	-

**TABLE B. 4.5.3 b Student Achievements in Academic Year 2021-2022**

S.NO	NAME OF THE STUDENT	TITLE	INSTITUTION	DATE	ACHEIVEMENTS
1	N.DHIVYA	PAPER PRESENTATION	NANDHA ENGINEERING COLLEGE	19.05.2022	1 ST PLACE
2	N.DHIVYA	COOKING WITHOUT FIRE	NANDHA ENGINEERING COLLEGE	19.05.2022	1 ST PLACE
3	N.DHIVYA	PAPER PRESENTATION	SHREE VENKATESHWARA HI-TECH ENGINEERING COLLEGE	28.05.200	I ST PLACE
4	N.DHIVYA	TECHNICAL QUIZ	AL AMEEN ENGINEERING COLLEGE	15.06.2022	PARTICIPATION
5	N.DHIVYA	PAPER PRESENTATION	K.S.R.COLLEGE OF ENGINEERING	29.04.2022	PARTICIPATION
6	N.DHIVYA	PAPER PRESENTATION	AL AMEEN ENGINEERING COLLEGE	15.05.2022	PARTICIPATION
7	G.KOWSALYA	WEBINAR	PANTECH E LEARNING	10.06.2021	PARTICIPATION
8	G.KOWSALYA	WEBINAR	PANTECH E LEARNING	18.06.2021	PARTICIPATION
9	G.KOWSALYA	WEBINAR	PANTECH E LEARNING	16.06.2021	PARTICIPATION
10	G.KOWSALYA	WEBINAR	PANTECH E LEARNING	18.06.2021	PARTICIPATION
11	G.KOWSALYA	WEBINAR	PANTECH E LEARNING	10.06.2021	PARTICIPATION
12	G.KOWSALYA	WEBINAR	PANTECH E LEARNING	08.06.2021	PARTICIPATION
13	G.KOWSALYA	WEBINAR	PANTECH E LEARNING	01.06.2021	PARTICIPATION
14	G.KOWSALYA	WEBINAR	PANTECH E LEARNING	29.09.2021	PARTICIPATION
15	G.KOWSALYA	WEBINAR	YOUTH UNITED COUNCIL OF INDIA	10.06.2021	PARTICIPATION
16	G.KOWSALYA	WEBINAR	PANTECH E LEARNING	NANDHA 04.2022 TO	PARTICIPATION

				10.05.2022	
17	G.KOWSALYA	WEBINAR	PANTECH E LEARNING	28.06.2021	PARTICIPATION
18	G.KOWSALYA	PAPER PRESENTATION	KONGU ENGINEERING COLLEGE	19.06.2022	PARTICIPATION
19	G.KOWSALYA	CIRCUIT DEBUGGING	NANDHA ENGINEERING COLLEGE	29.09.2021	III rd PLACE
20	G.KOWSALYA	WEBINAR	NANDHA ENGINEERING COLLEGE	09.10.2021	PARTICIPATION
21	G.KOWSALYA	WEBINAR	PANTECH E LEARNING	03.06.2021	PARTICIPATION
22	G.KOWSALYA	WEBINAR	PANTECH E LEARNING	09.06.2021	PARTICIPATION
23	G.KOWSALYA	WEBINAR	PANTECH E LEARNING	30.06.2021	PARTICIPATION
24	G.KOWSALYA	WEBINAR	PANTECH E LEARNING	28.06.2021	PARTICIPATION
25	G.KOWSALYA	WEBINAR	PANTECH E LEARNING	23.06.2021	PARTICIPATION
26	G.KOWSALYA	WEBINAR	PANTECH E LEARNING	16.06.2021	PARTICIPATION
27	G.KOWSALYA	WEBINAR	PANTECH E LEARNING	30.06.2021	PARTICIPATION
28	G.KOWSALYA	WEBINAR	PANTECH E LEARNING	28.06.2021	PARTICIPATION
29	G.KOWSALYA	WEBINAR	PANTECH E LEARNING	28.06.2021	PARTICIPATION
30	G.KOWSALYA	WEBINAR	PANTECH E LEARNING	23.06.2021	PARTICIPATION
31	G.KOWSALYA	WEBINAR	YOUTH UNITED COUNCIL OF INDIA	16.06.2021	PARTICIPATION
32	G.KOWSALYA	WORKSHOP	YOUTH UNITED COUNCIL OF INDIA	28.06.2021	PARTICIPATION
33	G.KOWSALYA	WORKSHOP	S.R.M INSTITUTION	26.06.2021	PARTICIPATION
34	G.KOWSALYA	WEBINAR	YOUTH UNITED COUNCIL OF	26.09.2021	PARTICIPATION



			INDIA		
35	G.KOWSALYA	WORKSHOP	5G TECHNOLOGIES	27.09.2021	PARTICIPATION
36	G.KOWSALYA	WORKSHOP	PANTECH E LEARNING	25.06.2021	PARTICIPATION
37	G.KOWSALYA	WORKSHOP	5G TECHNOLOGIES	25.06.2021	PARTICIPATION
38	S.VIPIN	PAPER PRESENTATION	KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY	12.03.2022	PARTICIPATION
39	S.VIPIN	PAPER PRESENTATION	KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY	12.03.2022	PARTICIPATION
40	S.VIPIN	PAPER PRESENTATION	KONGU ENGINEERING COLLEGE	19.03.2022	PARTICIPATION
41	K.SUGANYA	WORKSHOP	ETS ACADEMY	04.12.2021	PARTICIPATION
42	K.SUGANYA	WEBINAR	ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES	04.12.2021	PARTICIPATION
43	K.SUGANYA	WEBINAR	YOUTH UNITED COUNCIL OF INDIA	30.08.2021	PARTICIPATION
44	M.PARTHIBAN	QUIZ	KONGU ENGINEERING COLLEGE	22.03.2022	PARTICIPATION
45	S.PRATHIKSHA	WORKSHOP	NANDHA ENGINEERING COLLEGE	20.02.2021 TO 22.12.2021	PARTICIPATION
46	S.SUKESH	WEBINAR	INTERVIEW TECHNOLOGIES	04.10.2021	PARTICIPATION
47	NIVETHA	PAPER PRESENTATION	KONGU ENGINEERING COLLEGE	19.03.2022	PARTICIPATION
48	V.SABARINATH	CIRCUIT DEBUGGING	NANDHA ENGINEERING COLLEGE	19.05.2022	PARTICIPATION
49	V.SABARINATH	PAPER	VELALAR	26.04.2022	PARTICIPATION



		PRESENTATION	COLLEGE OF ENGINEERING		
50	V.SABARINATH	PAPER PRESENTATION	VELALAR COLLEGE OF ENGINEERING	29.04.2022	PARTICIPATION
51	D.SARMITHA	PAPER PRESENTATION	5G TECHNOLOGIES	22.04.2022	PARTICIPATION
52	E.R.JEEVANANDHAM	TECH-A-MONTH 2.0	IEEE	15.07.2021	PARTICIPATION
53	E.R.JEEVANANDHAM	TECH-A-MONTH 2.0	YOUTH UNITED COUNCIL OF INDIA	15.07.2021	II nd PLACE
54	E.R.JEEVANANDHAM	TECH-A-MONTH 2.0	INTERVIEW TECHNOLOGIES	04.10.2021	PARTICIPATION
55	E.R.JEEVANANDHAM	WORKSHOP	ETS ACADEMY	09.10.2021	PARTICIPATION
56	E.R.JEEVANANDHAM	QUIZ	KONGU ENGINEERING COLLEGE	22.03.2022	PARTICIPATION
57	E.R.JEEVANANDHAM	QUIZ	PAN TECH E LEARNING	11.04.2022 TO 10.05.2022	PARTICIPATION
58	E.R.JEEVANANDHAM	COFFEE WITH FIREBASE	IEEE	12.07.2021	PARTICIPATION
59	E.R.JEEVANANDHAM	QUIZ	R.M.K ENGINEERING COLLEGE	12.07.2021	PARTICIPATION
60	E.R.JEEVANANDHAM	WEBINAR	YOUTH UNITED COUNCIL OF INDIA	04.10.2021	PARTICIPATION
61	E.R.JEEVANANDHAM	PAPER PRESENTATION	NANDHA ENGINEERING COLLEGE	19.05.2022	III rd PLACE
62	G.KARTHIKEYAN	BLOOD DONAR	NANDHA ENGINEERING COLLEGE	14.06.2022	PARTICIPATION
63	G.KARTHIKEYAN	WORKSHOP	ETS ACADEMY	04.12.2021	PARTICIPATION
64	G.KARTHIKEYAN	QUIZ	HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY	28.03.2021	PARTICIPATION
65	G.KARTHIKEYAN	QUIZ	KARPAGAM ACADEMY OF HIGHER	26.03.2021	PARTICIPATION



			EDUCATION		
66	G.KARTHIKEYAN	WEBINAR	KARPAGAM ACADEMY OF HIGHER EDUCATION	26.03.2021	PARTICIPATION
67	G.KARTHIKEYAN	WEBINAR	KARPAGAM ACADEMY OF HIGHER EDUCATION	04.10.2021	PARTICIPATION
68	S.GOKULAPRIYA	PAPER PRESENTATION	KSR COLLEGE OF ENGINEERING	29.04.2022	PARTICIPATION
69	S.GOKULAPRIYA	PAPER PRESENTATION	KSR COLLEGE OF ENGINEERING	29.04.2022	PARTICIPATION
70	S.GOKULAPRIYA	CIRCUIT DEBUGGING	NANDHA ENGINEERING COLLEGE	19.05.2022	PARTICIPATION
71	K.S.SUNDARA VIGNESH	WEBINAR	NANDHA ENGINEERING COLLEGE	09.10.2021	PARTICIPATION
72	K.S.SUNDARA VIGNESH	WORKSHOP	COMPUTRIA SOFT SOLUTIONS	09.10.2021	PARTICIPATION
73	K.S.SUNDARA VIGNESH	WEBINAR	NANDHA ARTS AND SCIENCE	20.06.2021	PARTICIPATION
74	K.S.SUNDARA VIGNESH	WEBINAR	NANDHA ENGINEERING COLLEGE	04.10.2021	PARTICIPATION
75	K.S.SUNDARA VIGNESH	WEBINAR	NANDHA ENGINEERING COLLEGE	29.09.2021	PARTICIPATION
76	K.S.SUNDARA VIGNESH	WEBINAR	NANDHA ENGINEERING COLLEGE	12.01.2022	PARTICIPATION
77	S.GOKULAPRIYA	WEBINAR	NANDHA ENGINEERING COLLEGE	04.10.2021	PARTICIPATION
78	S.GOKULAPRIYA	WEBINAR	NANDHA ENGINEERING COLLEGE	29.09.2021	PARTICIPATION
79	S.GOKULAPRIYA	ONLINE COURSE	GREAT LEARNING	-	COMPLETION
80	S.GOKULAPRIYA	ONLINE	GREAT	-	COMPLETION



		COURSE	LEARNING		
81	S.GOKULAPRIYA	CIRCUIT DEBUGGING	NANDHA ENGINEERING COLLEGE	19.05.2022	PARTICIPATION
82	S.GOKULAPRIYA	PAPER PRESENTATION	KSR COLLEGE OF ENGINEERING	19.05.2022	PARTICIPATION
83	K.SINDHUVARSHINI	ONLINE COURSE	GREAT LEARNING	-	COMPLETION
84	K.SINDHUVARSHINI	ONLINE COURSE	GREAT LEARNING	-	COMPLETION
85	K.SINDHUVARSHINI	ONLINE COURSE	GREAT LEARNING	-	COMPLETION
86	T.MOHANAPRIYA	WEBINAR	NANDHA ENGINEERING COLLEGE	09.10.2021	PARTICIPATION
87	T.MOHANAPRIYA	WEBINAR	NANDHA ENGINEERING COLLEGE	09.10.2021	PARTICIPATION
88	T.MOHANAPRIYA	WORKSHOP	ETS ACADEMY	04.12.2021	PARTICIPATION
89	T.MOHANAPRIYA	QUIZ	MATRIX SCHOOL OF MANAGEMENT STUDIES	04.12.2022	PARTICIPATION
90	S.VIVEK	ONE DAY TRAINING ON PLACEMENT	KONGU ENGINEERING COLLEGE	05.05.2022	PARTICIPATION
91	S.VIVEK	SEMINAR	JANSONS INSTITUTE OF TECHNOLOGY	03.06.2022	PARTICIPATION
92	S.VIVEK	QUIZ	KONGU ENGINEERING COLLEGE	22.03.2022	PARTICIPATION
93	S.VIVEK	WORKSHOP	ETS ACADEMY	04.12.2021	PARTICIPATION
94	S.VIVEK	WEBINAR	IEEE	02.06.2021	PARTICIPATION
95	S.VIVEK	PAPER PRESENTATION	NANDHA ENGINEERING COLLEGE	19.05.2022	III rd PLACE
96	V.DINESH	PAPER PRESENTATION	BUILDERS ENGINEERING COLLEGE	07.05.2022	PARTICIPATION
97	V.DINESH	CIRCUIT	NANDHA ENGINEERING	19.05.2022	PARTICIPATION





		DEBUGGING	COLLEGE		
98	D.SARMITHA	5G TECHNOLOGY	ERODE SENGUNTHAR ENGINEERING COLLEGE	22.04.2022	PARTICIPATION
99	C.ENEYA SRI	IOT-MONITORING SYSTEM	K.S.R INSTITUTE FOR ENGINEERING AND TECHNOLOGY	27.04.2022	PARTICIPATION
100	C.ENEYA SRI	THROW BALL	NANDHA ENGINEERING COLLEGE	27.04.2021	I-PLACE
101	C.ENEYA SRI	PAPER PRESENTATION	NANDHA ENGINEERING COLLEGE	19.05.2022	II-PLACE
102	C.ENEYA SRI	PYTHON	LIVE FIRE FOR LIVE CAREERS	08.05.2022	PARTICIPATION

TABLE B.4.5.3 b Student Achievements in Academic Year 2020-2021

S.NO	NAME OF THE STUDENT	TITLE	INSTITUTION	DATE	ACHEIVEMENTS
1	R.DIVYARANI	SYMPOSIUM	COLLEGE OF ENGINEERING GUNDIRY	28-03-21	I PLACE
2	R.SHARMILA	VIDEO LOG	KONGU ENGINEERING COLLEGE	13-02-21	I PLACE
3	S.P.MADHUPPRANESH	SYMPOSIUM	KONGU ENGINEERING COLLEGE	03-10-20	I st PLACE
4	R.SHARMILA	SYMPOSIUM	KONGU ENGINEERING COLLEGE	03-10-20	I st PLACE
5	R.DIVYARANI	PAPER PRESENTATION	HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY	04-09-20	II nd PLACE
6	S.P.MADHUPPRANESH	SYMPOSIUM	KONGU ENGINEERING COLLEGE	13-02-21	II nd PLACE
7	S.PREMNATH	QUIZ	PSG COLLEGE OF TECHNOLOGY	14-02-21	II nd PLACE
8	S.PREMNATH	QUIZ	PADMA AWARDS	15-02-21	EXCELLENCE
9	S.PREMNATH	QUIZ	NANDHA ARTS AND SCIENCE	28-06-20	MERIT

			COLLEGE,ERO DE		
10	R.DIVYARANI	QUIZ	NANDHA ARTS AND SCIENCE COLLEGE,ERO DE	28-06-20	MERIT
11	S.PREMNATH	SYMPOSIUM	HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY	04-09-21	MERIT
12	R.SHARMILA	QUIZ	INDEPENDENT SCIENTIST	24-06-20	PARTICIPATION
13	S.KAVIYA	QUIZ	RAMAKRISHNA MISSION VIVEKANANDA COLLEGE	23-07-20	PARTICIPATION
14	S.VIVEK	QUIZ	TERF'S ACADEMY COLLEGE OF ARTS AND SCIENCE	24-07-20	PARTICIPATION
15	R.DIVYARANI	COURSE	GUVI	25-07-20	PARTICIPATION
16	KEERTHIVASAN	QUIZ	CHANDIGARH GROUP OF COLLEGES	04-06-20	PARTICIPATION
17	K.R.ARCHANA	QUIZ	MAHENDRA INSTITUTE OF TECHNOLOGY	11-06-20	PARTICIPATION
18	K.R.ARCHANA	QUIZ	MAHENDRA INSTITUTE OF TECHNOLOGY	12-06-20	PARTICIPATION
19	R.SHARMILA	WEBINAR	ST.JOSEPH'S COLLEGE OF ENGINEERING	13-06-20	PARTICIPATION
20	C.MANORAJANI	WEBINAR	ST.JOSEPH'S COLLEGE OF ENGINEERING	13-06-20	PARTICIPATION
21	S.P.MADHUPPRANES H	STUDENT DEVELOPMENT PROGRAM	ST.JOSEPH'S COLLEGE OF ENGINEERING	13-06-20	PARTICIPATION
22	S.PRATHIKSHA	QUIZ	GRAMIN MAHILA PG COLLEGE	15-06-20	PARTICIPATION
23	C.MANORAJANI	WEBINAR	ST.JOSEPH'S COLLEGE OF ENGINEERING	15-06-20	PARTICIPATION
24	S.P.MADHUPPRANES H	STUDENT DEVELOPMENT PROGRAM	ST.JOSEPH'S COLLEGE OF ENGINEERING	17-06-20	PARTICIPATION
25	C.MANORAJANI	WEBINAR	ST.JOSEPH'S COLLEGE OF ENGINEERING	17-06-20	PARTICIPATION
26	R.SHARMILA	STUDENT DEVELOPMENT PROGRAM	ST.JOSEPH'S COLLEGE OF ENGINEERING	17-06-20	PARTICIPATION
27	R.SHARMILA	STUDENT	ST.JOSEPH'S	19-06-20	PARTICIPATION



		DEVELOPMENT PROGRAM	COLLEGE OF ENGINEERING		
28	S.P.MADHUPPRANESH	STUDENT DEVELOPMENT PROGRAM	ST.JOSEPH'S COLLEGE OF ENGINEERING	19-06-20	PARTICIPATION
29	S.PREMNATH	WEBINAR	SSM COLLEGE OF ENGINEERING	20-06-20	PARTICIPATION
30	S.PRATHIKSHA	QUIZ	SRI RAMAKRISHNA COLLEGE OF ARTS AND SCIENCE	21-06-20	PARTICIPATION
31	S.KAVIYA	QUIZ	NANDHA ENGINEERING COLLEGE	22-06-20	PARTICIPATION
32	M.HARINI	QUIZ	NANDHA ENGINEERING COLLEGE	22-06-20	PARTICIPATION
33	E.ARUNA	QUIZ	NANDHA ENGINEERING COLLEGE	22-06-20	PARTICIPATION
34	S.VIVEK	QUIZ	SRI RAMAKRISHNA COLLEGE OF ARTS AND SCIENCE	22-06-20	PARTICIPATION
35	S.GOKUL	QUIZ	NANDHA ENGINEERING COLLEGE	22-06-20	PARTICIPATION
36	D.GOPIKA	QUIZ	SRI RAMAKRISHNA COLLEGE OF ARTS AND SCIENCE	22-06-20	PARTICIPATION
37	R.DIVYARANI	QUIZ	NANDHA ENGINEERING COLLEGE	22-06-20	PARTICIPATION
38	S.P.MADHUPPRANESH	QUIZ	NANDHA ENGINEERING COLLEGE	24-06-20	PARTICIPATION
39	S.VIVEK	QUIZ	NANDHA ENGINEERING COLLEGE	24-06-20	PARTICIPATION
40	S.P.MADHUPPRANESH	QUIZ	NANDHA ENGINEERING COLLEGE	24-06-20	PARTICIPATION
41	S.VIVEK	QUIZ	NANDHA ARTS AND SCIENCE COLLEGE, ERODE	25-06-20	PARTICIPATION
42	S.KAVIYA	WEBINAR	AMRITA COLLEGE OF ENGINEERING & TECHNOLOGY	26-06-20	PARTICIPATION
43	D.GUNAA SRI	QUIZ	SREE	01-07-20	PARTICIPATION



			ANANTHA PADMANABHA ARTS ,SCIENCE AND COMMERCE COLLEGE		
44	S.GOKUL	HTML	SOLOLEARN	05-07-20	PARTICIPATION
45	S.GOKUL	PYTHON	SOLOLEARN	05-07-20	PARTICIPATION
46	D.GUNAA SRI	TRAINING PROGRAM	SINHGAD TECHNICAL EDUCATION	13-07-20	PARTICIPATION
47	D.GUNAA SRI	QUIZ	NANDHA ARTS AND SCIENCE COLLEGE,ERO DE	15-07-20	PARTICIPATION
48	D.GUNAA SRI	QUIZ	ARAKKONAM ARTS AND SCIENCE COLLEGE	15-07-20	PARTICIPATION
49	S.KAVIYA	QUIZ	ARAKKONAM ARTS AND SCIENCE COLLEGE	16-07-20	PARTICIPATION
50	S.KAVIYA	QUIZ	YADAVA COLLEGE	16-07-20	PARTICIPATION
51	S.VIVEK	QUIZ	ARAKKONAM ARTS AND SCIENCE COLLEGE	16-07-20	PARTICIPATION
52	M.HARINI	QUIZ	PSGR KRISHNAMMA L COLLEGE FOR WOMEN	17-07-20	PARTICIPATION
53	E.ARUNA	QUIZ	PSGR KRISHNAMMA L COLLEGE FOR WOMEN	17-07-20	PARTICIPATION
54	E.ARUNA	QUIZ	PSGR KRISHNAMMA L COLLEGE FOR WOMEN	17-07-20	PARTICIPATION
55	S.VIVEK	QUIZ	SRIMAD ANDAVAN ARTS AND SCIENCE COLLEGE	17-07-20	PARTICIPATION
56	D.GUNAA SRI	QUIZ	CHIKKANNA GOVERNMENT ARTS COLLEGE	17-07-20	PARTICIPATION
57	D.GUNAA SRI	WEBINAR	TALENTBATTL E	17-07-20	PARTICIPATION
58	D.GUNAA SRI	QUIZ	CHIKKANNA GOVERNMENT ARTS COLLEGE	17-07-20	PARTICIPATION
59	D.GUNAA SRI	QUIZ	SRIMAD ANDAVAN ARTS AND	17-07-20	PARTICIPATION



			SCIENCE COLLEGE		
60	S.KAVIYA	QUIZ	GOVT DEGREE COLLEGE- ZAHEERABAD	20-07-20	PARTICIPATION
61	D.GUNAA SRI	QUIZ	GOVT DEGREE COLLEGE- ZAHEERABAD	20-07-20	PARTICIPATION
62	D.GUNAA SRI	QUIZ	GOVERNMENT ARTS COLLEGE, COIMBATORE	20-07-20	PARTICIPATION
63	D.GUNAA SRI	QUIZ	TBML COLLEGE	20-07-20	PARTICIPATION
64	B.BOOPATHIRAJA	QUIZ	NEHRU MEMORIAL COLLEGE	21-07-20	PARTICIPATION
65	S.P.MADHUPPRANESH	WORKSHOP	SURYA SCHOOL OF ENGINEERING AND TECHNOLOGY	21-07-20	PARTICIPATION
66	R.SHARMILA	WORKSHOP	SURYA SCHOOL OF ENGINEERING AND TECHNOLOGY	21-07-20	PARTICIPATION
67	C.MANORAJANI	WORKSHOP	SURYA SCHOOL OF ENGINEERING AND TECHNOLOGY	21-07-20	PARTICIPATION
68	D.GUNAA SRI	WEBINAR	CRESCENT INSTITUTE OF SCIENCE AND TECHNOLOGY	26-07-20	PARTICIPATION
69	D.GUNAA SRI	QUIZ	JANSONS INSTITUTE OF TECHNOLOGY	31-07-20	PARTICIPATION
70	D.GUNAA SRI	QUIZ	SESHASAYEE INSTITUTE OF TECHNOLOGY	03-08-20	PARTICIPATION
71	S.PREMNATH	QUIZ	VET INSTITUTE OF ARTS & SCIENCE	05-08-20	PARTICIPATION
72	D.GUNAA SRI	QUIZ	VET INSTITUTE OF ARTS & SCIENCE	05-08-20	PARTICIPATION
73	R.DIVYARANI	QUIZ	VET INSTITUTE OF ARTS & SCIENCE	05-08-20	PARTICIPATION
74	R.SHARMILA	STUDENT DEVELOPMENT PROGRAM	ST.JOSEPH'S COLLEGE OF ENGINEERING	06-08-20	PARTICIPATION
75	S.P.MADHUPPRANESH	STUDENT DEVELOPMENT PROGRAM	ST.JOSEPH'S COLLEGE OF ENGINEERING	06-08-20	PARTICIPATION



76	C.MANORAJANI	WEBINAR	ST.JOSEPH'S COLLEGE OF ENGINEERING	06-08-20	PARTICIPATION
77	S.VIVEK	QUIZ	SRM INSTITUTE OF SCIENCE & TECH	06-08-20	PARTICIPATION
78	S.KAVIYA	QUIZ	NANDHA ENGINEERING COLLEGE	07-08-20	PARTICIPATION
79	M.HARINI	QUIZ	NANDHA ENGINEERING COLLEGE	07-08-20	PARTICIPATION
80	E.ARUNA	QUIZ	NANDHA ENGINEERING COLLEGE	07-08-20	PARTICIPATION
81	E.R.JEEVANANDHAM	WORKSHOP	HINDUSTHAN COLLEGE OF ARTS AND SCIENCE	07-08-20	PARTICIPATION
82	S.SANJAY	QUIZ	NANDHA ENGINEERING COLLEGE	07-08-20	PARTICIPATION
83	D.GOPIKA	QUIZ	NANDHA ENGINEERING COLLEGE	07-08-20	PARTICIPATION
84	S.PREMNATH	QUIZ	LCIT COLLEGE OF COMMERCE AND SCIENCE	08-08-20	PARTICIPATION
85	S.PREMNATH	QUIZ	NANDHA ENGINEERING COLLEGE	07-09-20	PARTICIPATION
86	R.DIVYARANI	QUIZ	NANDHA ENGINEERING COLLEGE	07-09-20	PARTICIPATION
87	S.KAVIYA	QUIZ	NANDHA ENGINEERING COLLEGE	06-10-20	PARTICIPATION
88	S.P.MADHUPPRANESH	STUDENT DEVELOPMENT PROGRAM	ST.JOSEPH'S COLLEGE OF ENGINEERING	06-10-20	PARTICIPATION
89	S.PREMNATH	QUIZ	BHARATHIYAR UNIVERSITY ARTS AND SCIENCE COLLEGE	06-10-20	PARTICIPATION
90	R.SHARMILA	STUDENT DEVELOPMENT PROGRAM	ST.JOSEPH'S COLLEGE OF ENGINEERING	06-10-20	PARTICIPATION
91	C.MANORAJANI	WEBINAR	ST.JOSEPH'S COLLEGE OF ENGINEERING	06-10-20	PARTICIPATION
92	R.DIVYARANI	QUIZ	BHARATHIYAR UNIVERSITY ARTS AND SCIENCE COLLEGE	06-10-20	PARTICIPATION
93	S.P.MADHUPPRANESH	STUDENT	ST.JOSEPH'S	06-11-20	PARTICIPATION



	H	DEVELOPMENT PROGRAM	COLLEGE OF ENGINEERING		
94	R.SHARMILA	STUDENT DEVELOPMENT PROGRAM	ST.JOSEPH'S COLLEGE OF ENGINEERING	06-11-20	PARTICIPATION
95	K.R.ARCHANA	QUIZ	MAHENDRA INSTITUTE OF TECHNOLOGY	06-11-20	PARTICIPATION
96	C.MANORAJANI	WEBINAR	ST.JOSEPH'S COLLEGE OF ENGINEERING	06-11-20	PARTICIPATION
97	D.GUNAA SRI	WEBINAR	S.A.ENGINEERING COLLEGE	05-12-20	PARTICIPATION
98	D.GUNAA SRI	QUIZ	A.V.C. COLLEGE OF ENGINEERING	05-12-20	PARTICIPATION
99	R.SHARMILA	STUDENT DEVELOPMENT PROGRAM	ST.JOSEPH'S COLLEGE OF ENGINEERING	06-12-20	PARTICIPATION
100	C.MANORAJANI	WEBINAR	ST.JOSEPH'S COLLEGE OF ENGINEERING	06-12-20	PARTICIPATION
101	S.P.MADHUPPRANESH	STUDENT DEVELOPMENT PROGRAM	ST.JOSEPH'S COLLEGE OF ENGINEERING	06-12-20	PARTICIPATION
102	R.SHARMILA	QUIZ	LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY	07-12-20	PARTICIPATION
103	M.HARINI	QUIZ	LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY	07-12-20	PARTICIPATION
104	M.HARINI	QUIZ	LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY	07-12-20	PARTICIPATION
105	E.ARUNA	QUIZ	LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY	07-12-20	PARTICIPATION
106	S.P.MADHUPPRANESH	QUIZ	LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY	07-12-20	PARTICIPATION
107	S.PREMNATH	QUIZ	LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY	07-12-20	PARTICIPATION
108	S.VIVEK	QUIZ	SRI VINAYAGA COLLEGE OF	07-12-20	PARTICIPATION



			ARTS AND SCIENCE		
109	C.MANORAJANI	QUIZ	LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY	07-12-20	PARTICIPATION
110	R.DIVYARANI	QUIZ	LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY	07-12-20	PARTICIPATION
111	M.HARINI	WEBINAR	STUDENTS FOR STUDENTS SERVICE FOR SOCIETY	08-12-20	PARTICIPATION
112	A.DIVYA	WEBINAR	STUDENTS FOR STUDENTS SERVICE FOR SOCIETY	08-12-20	PARTICIPATION
113	S.VIVEK	QUIZ	KARPAGAM ACADEMY OF HIGHER EDUCATION	26-03-21	PARTICIPATION
114	S.VIVEK	QUIZ	KARPAGAM ACADEMY OF HIGHER EDUCATION	26-03-21	PARTICIPATION
115	S.VIVEK	QUIZ	KARPAGAM ACADEMY OF HIGHER EDUCATION	26-03-21	PARTICIPATION
116	S.PREMNATH	SYMPOSIUM	COLLEGE OF ENGINEERING GUINDY	28-03-21	PARTICIPATION
117	S.PREMNATH	QUIZ	SEOK FOUNDATION	14-04-21	PARTICIPATION
118	S.PREMNATH	PYTHON	GUVI	25-04-21	PARTICIPATION
119	S.KAVIYA	RIDDHAR	NANDHA ARTS AND SCIENCE COLLEGE, ERODE	25-04-21	PARTICIPATION
120	S.KAVIYA	QUIZ	SRI RAMAKRISHNA COLLEGE OF ARTS AND SCIENCE	25-04-21	PARTICIPATION
121	S.KAVIYA	QUIZ	KINGS COLLEGE OF ENGINEERING	25-04-21	PARTICIPATION
122	KEERTHIVASAN	QUIZ	P.K.R. ARTS COLLEGE FOR WOMEN	25-04-21	PARTICIPATION
123	M.HARINI	WEBINAR	NANDHA ARTS AND SCIENCE COLLEGE, ERODE	25-04-21	PARTICIPATION





124	M.HARINI	QUIZ	GOVERNMENT ARTS AND SCIENCE COLLEGE,THIT TAMALAI	25-04-21	PARTICIPATION
125	E.ARUNA	QUIZ	AKSHAYA COLLEGE OF ENGINEERING AND TECHNOLOGY	25-04-21	PARTICIPATION
126	E.ARUNA	QUIZ	AKSHAYA COLLEGE OF ENGINEERING AND TECHNOLOGY	25-04-21	PARTICIPATION
127	E.ARUNA	QUIZ	GOVERNMENT ARTS AND SCIENCE COLLEGE,THIT TAMALAI	25-04-21	PARTICIPATION
128	M.HARINI	HACKATHON	SMART INDIA HACKATHON	25-04-21	PARTICIPATION
129	R.SHARMILA	QUIZ	AKSHAYA COLLEGE OF ENGINEERING AND TECHNOLOGY	25-04-21	PARTICIPATION
130	C.MANORAJANI	QUIZ	AKSHAYA COLLEGE OF ENGINEERING AND TECHNOLOGY	25-04-21	PARTICIPATION
131	D.GUNAA SRI	QUIZ	ARULMIGU MEENAKSHI AMMAN COLLEGE OF ENGINEERING	25-04-21	PARTICIPATION
132	S.P.MADHUPPRANESH	QUIZ	AKSHAYA COLLEGE OF ENGINEERING AND TECHNOLOGY	25-04-21	PARTICIPATION
133	R.DIVYARANI	QUIZ	AKSHAYA COLLEGE OF ENGINEERING AND TECHNOLOGY	25-04-21	PARTICIPATION
134	R.DIVYARANI	QUIZ	BHARATHIAR UNIVERSITY ARTS AND SCIENCE COLLEGE,POLL ACHI	25-04-21	PARTICIPATION
135	S.PREM NATH	QUIZ	BHARATHIYAR UNIVERSITY ARTS AND SCIENCE COLLEGE	25-04-21	PARTICIPATION



136	S.PREMATH	HEALTH	WORLD HEALTH ORGANIZATION	25-04-21	COMMITMENT
137	S.PREMATH	HEALTH	WORLD HEALTH ORGANIZATION	25-04-21	COMMITMENT
138	R.DIVYARANI	WEBINAR	WORLD HEALTH ORGANIZATION	25-04-21	COMMITMENT
139	R.DIVYARANI	WEBINAR	LINKEDIN	25-04-21	COMPLETION
140	S.KAVIYA	WORKSHOP	ERODE SENGUNTHAR ENGINEERING COLLEGE	02-06-20	PARTICIPATION
141	S.P.MADHUPPRANESH	WEBINAR	ERODE SENGUNTHAR ENGINEERING COLLEGE	06-06-20	PARTICIPATION
142	R.SHARMILA	WEBINAR	ERODE SENGUNTHAR ENGINEERING COLLEGE	06-06-20	PARTICIPATION
143	R.SHARMILA	WEBINAR	VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY	06-06-20	PARTICIPATION
144	R.SHARMILA	WEBINAR	ERODE SENGUNTHAR ENGINEERING COLLEGE	06-06-20	PARTICIPATION
145	K.R.ARCHANA	WEBINAR	VIVEKANANDHA COLLEGE OF TECHNOLOGY FOR WOMEN	06-06-20	PARTICIPATION
146	S.P.MADHUPPRANESH	WEBINAR	VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY	06-06-20	PARTICIPATION
147	R.SHARMILA	WEBINAR	ERODE SENGUNTHAR ENGINEERING COLLEGE	06-06-20	PARTICIPATION
148	K.R.ARCHANA	WEBINAR	ERODE SENGUNTHAR ENGINEERING COLLEGE	06-06-20	PARTICIPATION
149	S.P.MADHUPPRANESH	WEBINAR	ERODE SENGUNTHAR ENGINEERING COLLEGE	06-06-20	PARTICIPATION
150	S.P.MADHUPPRANESH	WEBINAR	ERODE SENGUNTHAR ENGINEERING	06-06-20	PARTICIPATION



			COLLEGE		
151	C.MANORAJANI	WEBINAR	VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY	06-06-20	PARTICIPATION
152	C.MANORAJANI	WEBINAR	ERODE SENGUNTHAR ENGINEERING COLLEGE	06-06-20	PARTICIPATION
153	C.MANORAJANI	WEBINAR	ERODE SENGUNTHAR ENGINEERING COLLEGE	06-06-20	PARTICIPATION
154	C.MANORAJANI	WEBINAR	ERODE SENGUNTHAR ENGINEERING COLLEGE	06-06-20	PARTICIPATION
155	R.SHARMILA	WEBINAR	JANSONS INSTITUTE OF TECHNOLOGY	14-06-20	PARTICIPATION
156	S.P.MADHUPPRANESH	WEBINAR	JANSONS INSTITUTE OF TECHNOLOGY	14-06-20	PARTICIPATION
157	C.MANORAJANI	WEBINAR	JANSONS INSTITUTE OF TECHNOLOGY	14-06-20	PARTICIPATION
158	R.SHARMILA	WEBINAR	SURYA GROUP OF INSTITUTIONS	15-06-20	PARTICIPATION
159	S.P.MADHUPPRANESH	WEBINAR	SURYA GROUP OF INSTITUTIONS	15-06-20	PARTICIPATION
160	C.MANORAJANI	WEBINAR	SURYA GROUP OF INSTITUTIONS	15-06-20	PARTICIPATION
161	S.VIVEK	QUIZ	GOBI ARTS AND SCIENCE COLLEGE	16-06-20	PARTICIPATION
162	S.P.MADHUPPRANESH	WEBINAR	JAYAWANT INSTITUTE OF MANAGEMENT STUDIES	17-06-20	PARTICIPATION
163	R.SHARMILA	WEBINAR	JAYAWANT INSTITUTE OF MANAGEMENT STUDIES	17-06-20	PARTICIPATION
164	R.SHARMILA	WEBINAR	FRANCIS XAVIER ENGINEERING COLLEGE	17-06-20	PARTICIPATION
165	C.MANORAJANI	WEBINAR	FRANCIS XAVIER ENGINEERING COLLEGE	17-06-20	PARTICIPATION
166	S.VIVEK	QUIZ	BUILDERS ENGINEERING	18-06-20	PARTICIPATION



			COLLEGE		
167	S.P.MADHUPPRANESH	WEBINAR	CSI COLLEGE OF ENGINEERING	19-06-20	PARTICIPATION
168	C.MANORAJANI	WEBINAR	CSI COLLEGE OF ENGINEERING	19-06-20	PARTICIPATION
169	R.SHARMILA	WEBINAR	CSI COLLEGE OF ENGINEERING	19-06-20	PARTICIPATION
170	S.KAVIYA	WEBINAR	PANTECH E-LEARNING	20-06-20	PARTICIPATION
171	S.KAVIYA	WEBINAR	SSM COLLEGE OF ARTS AND SCIENCE	20-06-20	PARTICIPATION
172	S.P.MADHUPPRANESH	WEBINAR	ST.JOSEPH'S COLLEGE OF ENGINEERING	20-06-20	PARTICIPATION
173	R.SHARMILA	WEBINAR	ST.JOSEPH'S COLLEGE OF ENGINEERING	20-06-20	PARTICIPATION
174	R.DIVYARANI	WEBINAR	SSM COLLEGE OF ARTS AND SCIENCE	20-06-20	PARTICIPATION
175	S.KAVIYA	WEBINAR	PSG INSTITUTE OF TECHNOLOGY AND APPLIED RESEARCH	22-06-20	PARTICIPATION
176	S.P.MADHUPPRANESH	WEBINAR	ST.JOSEPH'S COLLEGE OF ENGINEERING	22-06-20	PARTICIPATION
177	R.SHARMILA	WEBINAR	ST.JOSEPH'S COLLEGE OF ENGINEERING	22-06-20	PARTICIPATION
178	R.DIVYARANI	QUIZ	K.S.R. COLLEGE OF ENGINEERING	23-06-20	PARTICIPATION
179	S.P.MADHUPPRANESH	QUIZ	INDEPENDENT SCIENTIST	24-06-20	PARTICIPATION
180	R.SHARMILA	WEBINAR	CSI COLLEGE OF ENGINEERING	24-06-20	PARTICIPATION
181	S.P.MADHUPPRANESH	WEBINAR	JANSONS INSTITUTE OF TECHNOLOGY	24-06-20	PARTICIPATION
182	R.SHARMILA	WEBINAR	JANSONS INSTITUTE OF TECHNOLOGY	24-06-20	PARTICIPATION
183	S.P.MADHUPPRANESH	WEBINAR	CSI COLLEGE OF ENGINEERING	24-06-20	PARTICIPATION
184	C.MANORAJANI	WEBINAR	ST.JOSEPH'S COLLEGE OF ENGINEERING	24-06-20	PARTICIPATION
185	C.MANORAJANI	WEBINAR	CSI COLLEGE OF	24-06-20	PARTICIPATION



			ENGINEERING		
186	S.P.MADHUPPRANESH	WEBINAR	JANSONS INSTITUTE OF TECHNOLOGY	25-06-20	PARTICIPATION
187	C.MANORAJANI	WEBINAR	ST.JOSEPH'S COLLEGE OF ENGINEERING	25-06-20	PARTICIPATION
188	R.SHARMILA	WEBINAR	JANSONS INSTITUTE OF TECHNOLOGY	25-06-20	PARTICIPATION
189	S.P.MADHUPPRANESH	WEBINAR	JANSONS INSTITUTE OF TECHNOLOGY	26-06-20	PARTICIPATION
190	R.SHARMILA	WEBINAR	FRANCIS XAVIER ENGINEERING COLLEGE	26-06-20	PARTICIPATION
191	R.SHARMILA	WEBINAR	JANSONS INSTITUTE OF TECHNOLOGY	26-06-20	PARTICIPATION
192	C.MANORAJANI	WEBINAR	ST.JOSEPH'S COLLEGE OF ENGINEERING	26-06-20	PARTICIPATION
193	C.MANORAJANI	WEBINAR	JANSONS INSTITUTE OF TECHNOLOGY	26-06-20	PARTICIPATION
194	C.MANORAJANI	WEBINAR	FRANCIS XAVIER ENGINEERING COLLEGE	26-06-20	PARTICIPATION
195	C.MANORAJANI	WEBINAR	FRANCIS XAVIER ENGINEERING COLLEGE	26-06-20	PARTICIPATION
196	S.P.MADHUPPRANESH	WEBINAR	FRANCIS XAVIER ENGINEERING COLLEGE	26-06-20	PARTICIPATION
197	R.SHARMILA	WEBINAR	FRANCIS XAVIER ENGINEERING COLLEGE	26-06-20	PARTICIPATION
198	S.P.MADHUPPRANESH	WEBINAR	FRANCIS XAVIER ENGINEERING COLLEGE	26-06-20	PARTICIPATION
199	R.DIVYARANI	QUIZ	SARASWATHI NARAYANAN COLLEGE	26-06-20	PARTICIPATION
200	R.SHARMILA	WEBINAR	FRANCIS XAVIER ENGINEERING COLLEGE	27-06-20	PARTICIPATION
201	S.P.MADHUPPRANESH	WEBINAR	FRANCIS XAVIER ENGINEERING COLLEGE	27-06-20	PARTICIPATION



202	R.SHARMILA	WEBINAR	JANSONS INSTITUTE OF TECHNOLOGY	27-06-20	PARTICIPATION
203	R.SHARMILA	WEBINAR	JANSONS INSTITUTE OF TECHNOLOGY	27-06-20	PARTICIPATION
204	S.P.MADHUPPRANES H	WEBINAR	JANSONS INSTITUTE OF TECHNOLOGY	27-06-20	PARTICIPATION
205	S.P.MADHUPPRANES H	WEBINAR	JANSONS INSTITUTE OF TECHNOLOGY	27-06-20	PARTICIPATION
206	C.MANORAJANI	WEBINAR	FRANCIS XAVIER ENGINEERING COLLEGE	27-06-20	PARTICIPATION
207	C.MANORAJANI	WEBINAR	FRANCIS XAVIER ENGINEERING COLLEGE	27-06-20	PARTICIPATION
208	C.MANORAJANI	WEBINAR	JANSONS INSTITUTE OF TECHNOLOGY	27-06-20	PARTICIPATION
209	S.P.MADHUPPRANES H	WEBINAR	JANSONS INSTITUTE OF TECHNOLOGY	28-06-20	PARTICIPATION
210	R.SHARMILA	WEBINAR	JANSONS INSTITUTE OF TECHNOLOGY	28-06-20	PARTICIPATION
211	R.SHARMILA	WEBINAR	FRANCIS XAVIER ENGINEERING COLLEGE	28-06-20	PARTICIPATION
212	C.MANORAJANI	WEBINAR	JANSONS INSTITUTE OF TECHNOLOGY	28-06-20	PARTICIPATION
213	C.MANORAJANI	WEBINAR	FRANCIS XAVIER ENGINEERING COLLEGE	28-06-20	PARTICIPATION
214	C.MANORAJANI	WEBINAR	ST.JOSEPH'S COLLEGE OF ENGINEERING	28-06-20	PARTICIPATION
215	S.P.MADHUPPRANES H	WEBINAR	FRANCIS XAVIER ENGINEERING COLLEGE	28-06-20	PARTICIPATION
216	R.SHARMILA	WEBINAR	FRANCIS XAVIER ENGINEERING COLLEGE	29-06-20	PARTICIPATION
217	C.MANORAJANI	WEBINAR	FRANCIS XAVIER ENGINEERING COLLEGE	29-06-20	PARTICIPATION
218	C.MANORAJANI	WEBINAR	ST.JOSEPH'S COLLEGE OF	29-06-20	PARTICIPATION



			ENGINEERING		
219	C.MANORAJANI	WEBINAR	JANSONS INSTITUTE OF TECHNOLOGY	29-06-20	PARTICIPATION
220	S.P.MADHUPPRANESH	WEBINAR	FRANCIS XAVIER ENGINEERING COLLEGE	29-06-20	PARTICIPATION
221	S.KAVIYA	WEBINAR	VIVEKANAND EDUCATION SOCIETY'S INSTITUTE OF TECHNOLOGY	30-06-20	PARTICIPATION
222	C.MANORAJANI	WEBINAR	ST.JOSEPH'S COLLEGE OF ENGINEERING	30-06-20	PARTICIPATION
223	T.DHIYANESH	SYMPOSIUM	ERODE SENGUNTHAR ENGINEERING COLLEGE	02-07-20	PARTICIPATION
224	M.GANESH	WORKSHOP	COLLEGE OF ENGINEERING, GUINDY	03-07-20	PARTICIPATION
225	S.P.MADHUPPRANESH	PAPER PRESENTATION	COLLEGE OF ENGINEERING GUINDY	03-07-20	PARTICIPATION
226	C.MANORAJANI	PAPER PRESENTATION	COLLEGE OF ENGINEERING GUINDY	03-07-20	PARTICIPATION
227	R.SHARMILA	PAPER PRESENTATION	COLLEGE OF ENGINEERING GUINDY	03-07-20	PARTICIPATION
228	M.HARINI	HTML	SOLOLEARN	05-07-20	PARTICIPATION
229	M.HARINI	HTML	SOLOLEARN	05-07-20	PARTICIPATION
230	M.HARINI	PYTHON	SOLOLEARN	05-07-20	PARTICIPATION
231	S.PREMNATH	WEBINAR	IEEE	08-07-20	PARTICIPATION
232	A.DIVYA	WEBINAR	NOVITECH	08-07-20	PARTICIPATION
233	S.ARULPRAKASH	WEBINAR	NOVITECH	08-07-20	PARTICIPATION
234	S.KAVIYA	WEBINAR	HINDUSTHAN POLYTECHNIC COLLEGE	13-07-20	PARTICIPATION
235	S.KAVIYA	WORKSHOP	SHIVAJERAO KADAM INSTITUTE OF TECNOLOGY AND MANAGEMENT, INDORE,[M.P]	15-07-20	PARTICIPATION
236	S.KAVIYA	WEBINAR	ST.XAVIER COLLEGE[AUT ONOMOUS]	15-07-20	PARTICIPATION
237	S.KAVIYA	WEBINAR	DR.AMBEDKAR COLLEGE,DEEK SHABBOOMI,N AGPUR	15-07-20	PARTICIPATION
238	S.KAVIYA	WEBINAR	RBT COLLEGE OF EDUCATION	15-07-20	PARTICIPATION



239	S.KAVIYA	QUIZ	FOCUS20	15-07-20	PARTICIPATION
240	S.VIVEK	QUIZ	VELLALAR COLLEGE FOR WOMEN	15-07-20	PARTICIPATION
241	R.RACHEL	WEBINAR	KIIT COLLEGE OF EDUCATION	15-07-20	PARTICIPATION
242	S.VIVEK	QUIZ	FOCUS 20	15-07-20	PARTICIPATION
243	D.GUNAA SRI	WEBINAR	INSTITUTE OF CHEMICAL TECHNOLOGY, MUMBAI	15-07-20	PARTICIPATION
244	D.GUNAA SRI	WEBINAR	MANJARA CHARITABLE TRUST,RAJIV GANDHI INSTITUTE OF TECHNOLOGY, MUMBAI	15-07-20	PARTICIPATION
245	D.GUNAA SRI	WORKSHOP	SHIVAJIRAO KADAM INSTITUTE OF TECHNOLOGY AND MANAGEMENT, INDORE	15-07-20	PARTICIPATION
246	D.GUNAA SRI	WEBINAR	ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION	15-07-20	PARTICIPATION
247	D.GUNAA SRI	QUIZ	FOCUS 20	15-07-20	PARTICIPATION
248	D.GUNAA SRI	QUIZ	YADAVA COLLEGE	16-07-20	PARTICIPATION
249	S.KAVIYA	WEBINAR	KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY	17-07-20	PARTICIPATION
250	S.KAVIYA	WEBINAR	TYLENBOTTLE	17-07-20	PARTICIPATION
251	S.KAVIYA	QUIZ	SRIMAD ANDAVAN ARTS AND SCIENCE COLLEGE	17-07-20	PARTICIPATION
252	R.SHARMILA	WEBINAR	JANSONS INSTITUTE OF TECHNOLOGY	17-07-20	PARTICIPATION
253	S.P.MADHUPPRANESH	WEBINAR	JANSONS INSTITUTE OF TECHNOLOGY	17-07-20	PARTICIPATION
254	C.MANORAJANI	WEBINAR	JANSONS INSTITUTE OF TECHNOLOGY	17-07-20	PARTICIPATION
255	D.GUNAA SRI	WEBINAR	RAJESWARI VEDACHALAM GOVERNMENT ARTS COLLEGE	17-07-20	PARTICIPATION





256	D.GUNAA SRI	STUDENT DEVELOPMENT PROGRAM	RAJ KUMAR GOEL INSTITUTE OF TECHNOLOGY	17-07-20	PARTICIPATION
257	S.KAVIYA	WEBINAR	TAMIL NADU TEACHERS EDUCATION UNIVERSITY	18-07-20	PARTICIPATION
258	D.GUNAA SRI	WEBINAR	ST.THOMAS COLLEGE,BHIL AI	18-07-20	PARTICIPATION
259	D.GUNAA SRI	WEBINAR	INTERNATIONAL WEBINAR	18-07-20	PARTICIPATION
260	D.GUNAA SRI	WEBINAR	VIVEKANANDH A INSTITUTE OF TECHNOLOGY	18-07-20	PARTICIPATION
261	D.GUNAA SRI	WEBINAR	KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY	18-07-20	PARTICIPATION
262	D.GUNAA SRI	WEBINAR	MANDSAUR UNIVERSITY	18-07-20	PARTICIPATION
263	D.GUNAA SRI	WEBINAR	TAMIL NADU TEACHERS EDUCATION UNIVERSITY	18-07-20	PARTICIPATION
264	D.GUNAA SRI	WEBINAR	SJB INSTITUTE OF TECHNOLOGY	18-07-20	PARTICIPATION
265	D.GUNAA SRI	WEBINAR	K.J. SOMAIYA INSTITUTE OF ENGINEERING AND INFORMATION TECHNOLOGY	18-07-20	PARTICIPATION
266	S.KAVIYA	WEBINAR	SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN	19-07-20	PARTICIPATION
267	M.HARINI	WEBINAR	NANDHA ENGINEERING COLLEGE	19-07-20	PARTICIPATION
268	E.ARUNA	WEBINAR	NOVITECH	19-07-20	PARTICIPATION
269	E.ARUNA	WEBINAR	NANDHA ENGINEERING COLLEGE	19-07-20	PARTICIPATION
270	A.DIVYA	WEBINAR	NOVITECH	19-07-20	PARTICIPATION
271	S.ARULPRAKASH	WEBINAR	NOVITECH	19-07-20	PARTICIPATION
272	R.SHARMILA	WEBINAR	NANDHA ENGINEERING COLLEGE	19-07-20	PARTICIPATION
273	S.P.MADHUPPRANES	WEBINAR	NANDHA	19-07-20	PARTICIPATION



	H		ENGINEERING COLLEGE		
274	C.MANORAJANI	WEBINAR	NANDHA ENGINEERING COLLEGE	19-07-20	PARTICIPATION
275	D.GUNAA SRI	WEBINAR	SWAMI VIVEKANAND GOVERNMENT COLLEGE,SUSNER	19-07-20	PARTICIPATION
276	D.GUNAA SRI	WEBINAR	SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN	19-07-20	PARTICIPATION
277	D.GUNAA SRI	WEBINAR	P.C.JABIN SCIENCE COLLEGE,HUBBALLI	20-07-20	PARTICIPATION
278	D.GUNAA SRI	WEBINAR	CHRIST COLLEGE	21-07-20	PARTICIPATION
279	D.GUNAA SRI	QUIZ	TECHNICAL QUIZ	21-07-20	PARTICIPATION
280	D.GUNAA SRI	WEBINAR	KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY	21-07-20	PARTICIPATION
281	D.GUNAA SRI	QUIZ	NEHRU MEMORIAL COLLEGE	21-07-20	PARTICIPATION
282	D.GUNAA SRI	WEBINAR	VIDYAVARDH AKA COLLEGE OF ENGINEERING	21-07-20	PARTICIPATION
283	S.KAVIYA	WEBINAR	K J SOMAIYA INSTITUTE OF ENGINEERING AND INFORMATION TECHNOLOGY, SION,MUMBAI	22-07-20	PARTICIPATION
284	A.DIVYA	WEBINAR	NOVITECH	22-07-20	PARTICIPATION
285	S.ARULPRAKASH	WEBINAR	NOVITECH	22-07-20	PARTICIPATION
286	D.GUNAA SRI	WEBINAR	K J SOMAIYA INSTITUTE OF ENGINEERING AND INFORMATION TECHNOLOGY, SION,MUMBAI	22-07-20	PARTICIPATION
287	D.GUNAA SRI	WEBINAR	KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY	22-07-20	PARTICIPATION



288	D.GUNAA SRI	WEBINAR	JANSONS INSTITUTE OF TECHNOLOGY	22-07-20	PARTICIPATION
289	S.KAVIYA	WEBINAR	ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION	23-07-20	PARTICIPATION
290	D.GUNAA SRI	WEBINAR	KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY	23-07-20	PARTICIPATION
291	D.GUNAA SRI	QUIZ	KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY	23-07-20	PARTICIPATION
292	D.GUNAA SRI	WEBINAR	VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY	24-07-20	PARTICIPATION
293	D.GUNAA SRI	WEBINAR	KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY	24-07-20	PARTICIPATION
294	S.KAVIYA	WEBINAR	FRANCIS XAVIER ENGINEERING COLLEGE	25-07-20	PARTICIPATION
295	M.HARINI	WEBINAR	FRANCIS XAVIER ENGINEERING COLLEGE	25-07-20	PARTICIPATION
296	E.ARUNA	WEBINAR	FRANCIS XAVIER ENGINEERING COLLEGE	25-07-20	PARTICIPATION
297	A.DIVYA	WEBINAR	FRANCIS XAVIER ENGINEERING COLLEGE	25-07-20	PARTICIPATION
298	D.GUNAA SRI	STUDENT DEVELOPMENT PROGRAM	BALAJI INSTITUTE OF TECHNOLOGY AND SCIENCE	25-07-20	PARTICIPATION
299	D.GUNAA SRI	STUDENT DEVELOPMENT PROGRAM	BALAJI INSTITUTE OF TECHNOLOGY AND SCIENCE	25-07-20	PARTICIPATION
300	M.HARINI	WEBINAR	SRM INSTITUTE OF SCIENCE & TECHNOLOGY	27-07-20	PARTICIPATION
301	D.GUNAA SRI	QUIZ	WEBSTICO	27-07-20	PARTICIPATION
302	D.GUNAA SRI	WEBINAR	CLUB OF ANNA UNIVERSITY	27-07-20	PARTICIPATION



303	D.GUNAA SRI	WEBINAR	KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY	28-07-20	PARTICIPATION
304	D.GUNAA SRI	QUIZ	KLE SOCIETY SCIENCE AND COMMERCE COLLEGE	28-07-20	PARTICIPATION
305	S.KAVIYA	WEBINAR	EASWARI ENGINEERING COLLEGE[AUTONOMOUS]	29-07-20	PARTICIPATION
306	S.KAVIYA	WEBINAR	PANTECH E-LEARNING	29-07-20	PARTICIPATION
307	M.HARINI	WEBINAR	KONGU ENGINEERING COLLEGE	29-07-20	PARTICIPATION
308	A.DIVYA	WEBINAR	LOURDES MATHA COLLEGE OF SCIENCE AND TECHNOLOGY	29-07-20	PARTICIPATION
309	S.ARULPRAKASH	WEBINAR	LOURDES MATHA COLLEGE OF SCIENCE AND TECHNOLOGY	29-07-20	PARTICIPATION
310	D.GUNAA SRI	WEBINAR	KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY	29-07-20	PARTICIPATION
311	S.KAVIYA	WEBINAR	KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY	30-07-20	PARTICIPATION
312	D.GUNAA SRI	WEBINAR	KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY	30-07-20	PARTICIPATION
313	M.HARINI	WEBINAR	COLLEGE OF ENGINEERING, PATHANAPURAM	31-07-20	PARTICIPATION
314	E.ARUNA	WEBINAR	COLLEGE OF ENGINEERING, PATHANAPURAM	31-07-20	PARTICIPATION
315	A.DIVYA	WEBINAR	NOVITECH	31-07-20	PARTICIPATION
316	S.P.MADHUPRANESH	WEBINAR	NOVITECH	31-07-20	PARTICIPATION
317	S.ARULPRAKASH	WEBINAR	NOVITECH	31-07-20	PARTICIPATION
318	R.SHARMILA	WEBINAR	NOVITECH	31-07-20	PARTICIPATION
319	C.MANORAJANI	WEBINAR	COLLEGE OF	31-07-20	PARTICIPATION



			ENGINEERING, PATHANAPURA M		
320	R.SHARMILA	NSS	ALAMELU CHARITABLE FOUNDATION	01-08-20	PARTICIPATION
321	S.P.MADHUPPRANES H	PROGRAM	ALAMELU CHARITABLE FOUNDATION	01-08-20	PARTICIPATION
322	S.GOKUL	SEMINAR	JANSONS INSTITUTE OF TECHNOLOGY	01-08-20	PARTICIPATION
323	S.KAVIYA	WEBINAR	SRI PUSHPAM COLLEGE[AUT ONOMOUS]	02-08-20	PARTICIPATION
324	S.P.MADHUPPRANES H	WORKSHOP	SPARK TECHNOLOGIE S	03-08-20	PARTICIPATION
325	R.SHARMILA	WORKSHOP	SPARK TECHNOLOGIE S	03-08-20	PARTICIPATION
326	D.GUNAA SRI	QUIZ	SRI PUSHPAM COLLEGE[AUT ONOMOUS]	03-08-20	PARTICIPATION
327	C.MANORAJANI	WORKSHOP	SPARK TECHNOLOGIE S	03-08-20	PARTICIPATION
328	E.ARUNA	QUIZ	NEHRU ARTS AND SCIENCE COLLEGE	05-08-20	PARTICIPATION
329	S.PREMNATH	DESIGNING	KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY	05-08-20	PARTICIPATION
330	S.PREMNATH	DESIGNING	KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY	05-08-20	PARTICIPATION
331	R.DIVYARANI	POSTER PRESENTATION	KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY	05-08-20	PARTICIPATION
332	K.R.ARCHANA	WEBINAR	SRI ESHWAR COLLEGE OF ENGINEERING	06-08-20	PARTICIPATION
333	S.PREMNATH	WEBINAR	SNGCE BEYOND ENGINEERING	09-08-20	PARTICIPATION
334	D.GUNAA SRI	QUIZ	WEBSTICO	16-08-20	PARTICIPATION
335	R.DIVYARANI	PAPER PRESENTATION	HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY	04-09-20	PARTICIPATION



336	S.PREMNATH	SYMPOSIUM	SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY	05-09-20	PARTICIPATION
337	D.GUNAA SRI	SYMPOSIUM	SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY	05-09-20	PARTICIPATION
338	R.DIVYARANI	COURSE	SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY	05-09-20	PARTICIPATION
339	K.R.ARCHANA	QUIZ	VIVEKANANDH A COLLEGE OF ARTS AND SCIENCE FOR WOMEN	06-09-20	PARTICIPATION
340	C.MANORAJANI	WEBINAR	VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY	06-09-20	PARTICIPATION
341	D.GUNAA SRI	WEBINAR	KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY	07-09-20	PARTICIPATION
342	S.PREMNATH	WORKSHOP	NANDHA ENGINEERING COLLEGE	28-09-20	PARTICIPATION
343	S.PREMNATH	SYMPOSIUM	KONGU ENGINEERING COLLEGE	03-10-20	PARTICIPATION
344	S.PREMNATH	PROJECT EXHIBITION	KONGU ENGINEERING COLLEGE	03-10-20	PARTICIPATION
345	C.MANORAJANI	PAPER PRESENTATION	KONGU ENGINEERING COLLEGE	03-10-20	PARTICIPATION
346	R.DIVYARANI	PROJECT EXHIBITION	KONGU ENGINEERING COLLEGE	03-10-20	PARTICIPATION
347	R.DIVYARANI	PAPER PRESENTATION	KONGU ENGINEERING COLLEGE	03-10-20	PARTICIPATION
348	S.P.MADHUPPRANESH	WEBINAR	ST.JOSEPH'S COLLEGE OF ENGINEERING	06-10-20	PARTICIPATION
349	R.SHARMILA	WEBINAR	ST.JOSEPH'S COLLEGE OF ENGINEERING	06-10-20	PARTICIPATION
350	C.MANORAJANI	WEBINAR	ST.JOSEPH'S COLLEGE OF ENGINEERING	06-10-20	PARTICIPATION



351	S.P.MADHUPPRANESH	WEBINAR	BULIDERS ENGINEERING COLLEGE,TIRUPUR	07-10-20	PARTICIPATION
352	R.RACHEL	QUIZ	SETH KESARIMAL PORWAL COLLEGE OF ARTS & SCIENCE & COMMERCE,KAMPTEE	07-10-20	PARTICIPATION
353	R.SHARMILA	WEBINAR	BUILDERS ENGINEERING COLLEGE	07-10-20	PARTICIPATION
354	S.VIVEK	QUIZ	SETH KESARIMAL PORWAL COLLEGE OF ARTS & SCIENCE & COMMERCE,KAMPTEE	07-10-20	PARTICIPATION
355	D.GUNAA SRI	WORKSHOP	SATHIYABAMA INSTITUTE OF SCIENCE AND TECH	07-10-20	PARTICIPATION
356	D.GUNAA SRI	QUIZ	A.V.V.M. SRI PUSHPAM COLLEGE	07-10-20	PARTICIPATION
357	M.HARINI	WEBINAR	ILAHIA COLLEGE OF ENGINEERING AND TECHNOLOGY	08-10-20	PARTICIPATION
358	E.ARUNA	WEBINAR	ILAHIA COLLEGE OF ENGINEERING AND TECHNOLOGY	08-10-20	PARTICIPATION
359	A.DIVYA	WEBINAR	ILAHIA COLLEGE OF ENGINEERING AND TECHNOLOGY	08-10-20	PARTICIPATION
360	S.ARULPRAKASH	WEBINAR	ILAHIA COLLEGE OF ENGINEERING AND TECHNOLOGY	08-10-20	PARTICIPATION
361	D.GUNAA SRI	QUIZ	ST.XAVIER'S CATHOLIC COLLEGE OF ENGINEERING	02-11-20	PARTICIPATION
362	K.R.ARCHANA	WEBINAR	GNANAMANI COLLEGE OF TECHNOLOGY	06-11-20	PARTICIPATION
363	R.SHARMILA	WEBINAR	ST.JOSEPH'S	06-11-20	PARTICIPATION



			COLLEGE OF ENGINEERING		
364	S.P.MADHUPPRANESH	WEBINAR	ST.JOSEPH'S COLLEGE OF ENGINEERING	06-11-20	PARTICIPATION
365	C.MANORAJANI	WEBINAR	ST.JOSEPH'S COLLEGE OF ENGINEERING	06-11-20	PARTICIPATION
366	S.KAVIYA	WEBINAR	SHRI VISHNU COLLEGE OF PHARMACY	07-11-20	PARTICIPATION
367	R.SHARMILA	WEBINAR	BUILDERS ENGINEERING COLLEGE	07-11-20	PARTICIPATION
368	S.P.MADHUPPRANESH	WEBINAR	BUILDERS ENGINEERING COLLEGE	07-11-20	PARTICIPATION
369	D.GUNAA SRI	QUIZ	GOVERNMENT DEGREE COLLEGE,WAR ANGAL	07-11-20	PARTICIPATION
370	D.GUNAA SRI	WORKSHOP	DR.M.G.R. EDUCATIONAL AND RESEARCH INSTITUTE	07-11-20	PARTICIPATION
371	S.PREMNATH	QUIZ	A.V.C. COLLEGE OF ENGINEERING	05-12-20	PARTICIPATION
372	S.PREMNATH	QUIZ	IDHAYA COLLEGE FOR WOMEN	05-12-20	PARTICIPATION
373	R.DIVYARANI	QUIZ	IDHAYA COLLEGE FOR WOMEN	05-12-20	PARTICIPATION
374	S.P.MADHUPPRANESH	WEBINAR	JANSONS INSTITUTE OF TECHNOLOGY	06-12-20	PARTICIPATION
375	C.MANORAJANI	WEBINAR	JANSONS INSTITUTE OF TECHNOLOGY	06-12-20	PARTICIPATION
376	C.MANORAJANI	WEBINAR	JANSONS INSTITUTE OF TECHNOLOGY	06-12-20	PARTICIPATION
377	R.SHARMILA	WEBINAR	JANSONS INSTITUTE OF TECHNOLOGY	06-12-20	PARTICIPATION
378	M.HARINI	WEBINAR	TOCH INSTITUTE OF SCIENCE AND TECHNOLOGY	08-12-20	PARTICIPATION
379	M.HARINI	WEBINAR	NOVITECH	08-12-20	PARTICIPATION
380	S.KAVIYA	VALUE ADDED TRAINING PROGRAM	ST.THOMAS CHARITABLE AND EDUCATIONAL TRUST,PERUND	26-12-20	PARTICIPATION





			URAI		
381	S.PREMNATH	QUIZ	MINISTRY OF CURRENT AFFAIRS	01-01-21	PARTICIPATION
382	D.GUNAA SRI	INNOVATION	NANDHA ENGINEERING COLLEGE	20-01-21	PARTICIPATION
383	R.SHARMILA	SYMPOSIUM	KONGU ENGINEERING COLLEGE	13-02-21	PARTICIPATION
384	S.P.MADHUPPRANESH	SYMPOSIUM	KONGU ENGINEERING COLLEGE	13-02-21	PARTICIPATION
385	M.HARINI	WEBINAR	SSM COLLEGE OF ENGINEERING	25-02-21	PARTICIPATION
386	E.ARUNA	WEBINAR	SSM COLLEGE OF ENGINEERING	25-02-21	PARTICIPATION
387	S.P.MADHUPPRANESH	WEBINAR	SSM COLLEGE OF ENGINEERING	25-02-21	PARTICIPATION
388	C.MANORAJANI	WEBINAR	SSM COLLEGE OF ENGINEERING	25-02-21	PARTICIPATION
389	S.VIVEK	WEBINAR	SSM COLLEGE OF ENGINEERING	25-02-21	PARTICIPATION
390	R.SHARMILA	WEBINAR	SSM COLLEGE OF ENGINEERING	25-02-21	PARTICIPATION
391	R.SHARMILA	SYMPOSIUM	KONGU ENGINEERING COLLEGE	26-02-21	PARTICIPATION
392	S.VIVEK	QUIZ	HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY	28-03-21	PARTICIPATION
393	R.DIVYARANI	SPEECH	LIONS CLUB OF ERODE MIDTOWN	06-02-21	PARTICIPATION
394	S.PREMNATH	QUIZ	HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY	09-04-21	PARTICIPATION
395	S.PREMNATH	SYMPOSIUM	HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY	09-04-21	PARTICIPATION
396	S.PREMNATH	QUIZ	HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY	09-04-21	PARTICIPATION



397	S.PREMNATH	SYMPOSIUM	HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY	09-04-21	PARTICIPATION
398	S.PREMNATH	WORKSHOP	KONSCIOUSLY	12-04-21	PARTICIPATION
399	M.HARINI	QUIZ	AZADI KA AMRIT MAHOTSAV	12-04-21	PARTICIPATION
400	K.R.ARCHANA	WEBINAR	NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGIES	12-04-21	PARTICIPATION
401	S.PREMNATH	WEBINAR	THAVATHIRU SANTHALINGA ADIGALAR	12-04-21	PARTICIPATION
402	S.PREMNATH	PROGRAM	GUVI	12-04-21	PARTICIPATION
403	S.PREMNATH	HACKATHON	SMART INDIA HACKATHON	12-04-21	PARTICIPATION
404	S.PREMNATH	QUIZ	FIT INDIA	12-04-21	PARTICIPATION
405	S.PREMNATH	QUIZ	INCREDIBLE INDIA	12-04-21	PARTICIPATION
406	S.PREMNATH	QUIZ	MINISTRY OF AYUSH	12-04-21	PARTICIPATION
407	S.PREMNATH	QUIZ	MINISTRY OF HOME AFFAIRS	12-04-21	PARTICIPATION
408	S.PREMNATH	QUIZ	MINISTRY OF AYUSH	12-04-21	PARTICIPATION
409	S.PREMNATH	QUIZ	MY GOVERNMENT	12-04-21	PARTICIPATION
410	S.VIVEK	QUIZ	VIVEKANANDH A COLLEGE FOR WOMEN	12-04-21	PARTICIPATION
411	C.MANORAJANI	WEBINAR	WE THINK DIGITAL	12-04-21	PARTICIPATION
412	D.GUNAA SRI	WEBINAR	WE THINK DIGITAL	12-04-21	PARTICIPATION
413	RACHEL	WEBINAR	WE THINK DIGITAL	12-04-21	PARTICIPATION
414	R.DIVYARANI	QUIZ	THAVATHIRU SANTHALINGA ADIGALAR	12-04-21	PARTICIPATION
415	R.DIVYARANI	HACKATHON	SMART INDIA HACKATHON	12-04-21	PARTICIPATION
416	S.P.MADHUPPRANESH	WEBINAR	FRANCIS XAVIER ENGINEERING COLLEGE	17-06.2020	PARTICIPATION
417	S.P.MADHUPPRANESH	SYMPOSIUM	KONGU ENGINEERING COLLEGE	26-02-2021	PARTICIPATION
418	M.HARINI	MOCK TEST	RKSD(PG) COLLEGE,KAIT HAL	09-08-20	PROFICIENCY
419	E.ARUNA	MOCK TEST	RKSD(PG)	09-08-20	PROFICIENCY



			COLLEGE, KAIT HAL		
420	S.KAVIYA	WEBINAR	IEEE	21-06-20	RECOGNITION

TABLE B.4.5.3 c Student Achievements in Academic Year 2019-2020

S.NO	NAME OF THE STUDENT	TITLE	INSTITUTION	DATE	ACHEIVEMENTS
1	R.DIVYARANI	WORKSHOP	CODE BIND TECHNOLOGIES	24-06-19	PARTICIPATION
2	R.DIVYARANI	QUIZ	CODE BIND TECHNOLOGIES	24-06-19	PARTICIPATION
3	S.PREMNATH	PROJECT EXHIBITION	EMGLITZ TECHNOLOGIES	25-06-19	PARTICIPATION
4	M.SRIBARATHI	STUDENT DEVELOPMENT PROGRAM	EXCEL COLLEGE OF ENGINEERING AND TECHNOLOGY	06-08-19	PARTICIPATION
5	R.DIVYARANI	WORKSHOP	LIVE WIRE TECHNOLOGIES	01-09-19	PARTICIPATION
6	S.PREMNATH	PROJECT EXHIBITION	NANDHA ENGINEERING COLLEGE	03-10-19	PARTICIPATION
7	M.SRIBARATHI	PROJECT EXHIBITION	NANDHA ENGINEERING COLLEGE	03-01-20	PARTICIPATION
8	S.GOKUL	SEMINAR	JANSONS INSTITUTE OF TECHNOLOGY	08-01-20	PARTICIPATION
9	R.DIVYARANI	HACKATHON	SMART INDIA HACKATHON	02-02-20	4TH PLACE
10	T.DHIYANESH	WORKSHOP	ERODE SEGUNTHAR ENGINEERING COLLEGE	06-02-20	PARTICIPATION
11	S.KAVIYA	WORKSHOP	ERODE SEGUNTHAR ENGINEERING COLLEGE	06-02-20	PARTICIPATION
12	S.PRATHIKSHA	WORKSHOP	ETS ACADEMY	16-02-20	PARTICIPATION
13	S.KAVIYA	WORKSHOP	NANDHA ENGINEERING COLLEGE	16-02-20	PARTICIPATION
14	R.DIVYARANI	CIRCUIT DEBUGGING	DR NGP INSTITUTE OF TECHNOLOGY	22-02-20	II PLACE
15	S.PREMNATH	CIRCUIT DEBUGGING	DR NGP INSTITUTE OF TECHNOLOGY	22-02-20	II PLACE



16	R.DIVYARANI	PAPER PRESENTATION	DR NGP INSTITUTE OF TECHNOLOGY	22-02-20	PARTICIPATION
17	S.PREMNATH	PAPER PRESENTATION	DR NGP INSTITUTE OF TECHNOLOGY	22-02-20	PARTICIPATION
18	S.PRATHIKSHA	SEMINAR	NANDHA ENGINEERING COLLEGE	22-02-20	PARTICIPATION
19	C.MANORAJANI	SEMINAR	NANDHA ENGINEERING COLLEGE	22-02-20	PARTICIPATION
20	S.KAVIYA	SEMINAR	NANDHA ENGINEERING COLLEGE	22-02-20	PARTICIPATION
21	S.PREMNATH	WORKSHOP	SPARK TECHNOLOGIES	23-02-20	PARTICIPATION
22	S.PRATHIKSHA	WORKSHOP	ETS ACADEMY	23-02-20	PARTICIPATION
23	JEEVANANDHAM ER	WORKSHOP	NANDHA ENGINEERING COLLEGE	23-02-20	PARTICIPATION
24	S.KAVIYA	WORKSHOP	NANDHA ENGINEERING COLLEGE	23-02-20	PARTICIPATION
25	D.GOPIKA	WORKSHOP	NANDHA ENGINEERING COLLEGE	23-02-20	PARTICIPATION
26	M.PARTHIBAN	WORKSHOP	NANDHA ENGINEERING COLLEGE	23-02-20	PARTICIPATION
27	S.PREMNATH	BLOOD DONATION	LION'S CLUB	27-02-20	PARTICIPATION
28	S.DINESHKUMAR	PROJECT EXHIBITION	MUTHAYAM MAL COLLEGE OF ENGINEERING	28-02-20	PARTICIPATION
29	T.DHIYANESH	PROJECT EXHIBITION	MUTHAYAM MAL COLLEGE OF ENGINEERING	28-02-20	PARTICIPATION
30	R.DIVYARANI	PROJECT EXHIBITION	MAHENDRA ENGINEERING COLLEGE	04-03-20	II PLACE
31	S.PREMNATH	PROJECT EXHIBITION	MAHENDRA ENGINEERING COLLEGE	04-03-20	II PLACE
32	S.DINESHKUMAR	PROJECT EXHIBITION	K.S. RANGASAMY COLLEGE OF TECHNOLOGY	04-03-20	II PLACE
33	T.DHIYANESH	PROJECT EXHIBITION	K.S. RANGASAMY COLLEGE OF TECHNOLOGY	04-03-20	II PLACE
34	R.DIVYARANI	PROJECT	MAHENDRA	04-03-20	PARTICIPATION



		EXHIBITION	ENGINEERING COLLEGE		
35	S.GOKUL	PROJECT EXHIBITION	K.S. RANGASAMY COLLEGE OF TECHNOLOGY	04-03-20	PARTICIPATION
36	M.GANESH	WORKSHOP	ANNA UNIVERSITY	05-03-20	PARTICIPATION
37	C.MANORAJANI	PAPER PRESENTATION	ANNA UNIVERSITY	05-03-20	PARTICIPATION
38	R.SHARMILA	PAPER PRESENTATION	ANNA UNIVERSITY	05-03-20	PARTICIPATION
39	S.P.MADHUPPRANESH	PAPER PRESENTATION	ANNA UNIVERSITY	05-03-20	PARTICIPATION
40	C.MANORAJANI	WORKSHOP	SPARK TECHNOLOGIES	08-03-20	PARTICIPATION
41	R.SHARMILA	WORKSHOP	SPARK TECHNOLOGIES	08-03-20	PARTICIPATION
42	R.SHARMILA	PAPER PRESENTATION	KONGU ENGINEERING COLLEGE	10-03-20	I PLACE
43	S.P.MADHUPPRANESH	PAPER PRESENTATION	KONGU ENGINEERING COLLEGE	10-03-20	I PLACE
44	R.DIVYARANI	PROJECT EXHIBITION	KONGU ENGINEERING COLLEGE	10-03-20	PARTICIPATION
45	R.DIVYARANI	PAPER PRESENTATION	KONGU ENGINEERING COLLEGE	10-03-20	PARTICIPATION
46	S.PREMNATH	PAPER PRESENTATION	KONGU ENGINEERING COLLEGE	10-03-20	PARTICIPATION
47	S.PREMNATH	PROJECT EXHIBITION	KONGU ENGINEERING COLLEGE	10-03-20	PARTICIPATION
48	C.MANORAJANI	PAPER PRESENTATION	KONGU ENGINEERING COLLEGE	10-03-20	PARTICIPATION
49	S.PREMNATH	WORKSHOP	GUVI	03-04-20	PARTICIPATION
50	R.DIVYARANI	ONLINE ASSESMENT	URS TRAINING SERVICES	05-04-20	PARTICIPATION
51	S.PREMNATH	QUIZ	CHANDIGARH GROUP OF COLLEGES	05-04-20	PARTICIPATION
52	S.PREMNATH	ONLINE ASSESMENT	URS TRAINING SERVICES	05-04-20	PARTICIPATION
53	R.DIVYARANI	WORKSHOP	GUVI	17-04-20	PARTICIPATION
54	S.PREMNATH	WEBINAR	TATA STEELS	17-04-20	PARTICIPATION
55	R.DIVYARANI	QUIZ	NANDHA ENGINEERING COLLEGE	26-04-20	PARTICIPATION
56	T.MOHANAPRIYA	WEBINAR	IEEE	28-04-20	PARTICIPATION



57	R.KIRUBANITHI	WEBINAR	IEEE	29-04-20	PARTICIPATION
58	T.MOHANAPRIYA	WEBINAR	IEEE	29-04-20	PARTICIPATION
59	T.MOHANAPRIYA	WEBINAR	IEEE	30-04-20	PARTICIPATION
60	T.MOHANAPRIYA	WEBINAR	IEEE	01-05-20	PARTICIPATION
61	R.SHARMILA	QUIZ	AKSHAYA COLLEGE OF ENGINEERING AND TECHNOLOGY	02-05-20	PARTICIPATION
62	S.P.MADHUPPRANESH	QUIZ	AKSHAYA COLLEGE OF ENGINEERING AND TECHNOLOGY	02-05-20	PARTICIPATION
63	E.ARUNA	QUIZ	AKSHAYA COLLEGE OF ENGINEERING AND TECHNOLOGY	02-05-20	PARTICIPATION
64	T.MOHANAPRIYA	WEBINAR	TCS	03-05-20	PARTICIPATION
65	M.PARTHIBAN	WEBINAR	IEEE	04-05-20	PARTICIPATION
66	R.DIVYARANI	WEBINAR	SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY	05-05-20	PARTICIPATION
67	S.PREMNATH	WORKSHOP	SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY	05-05-20	PARTICIPATION
68	M.PARTHIBAN	QUIZ	ARAM SEI	05-05-20	PARTICIPATION
69	R.DIVYARANI	QUIZ	VET INSTITUTE OF ARTS & SCIENCE	06-05-20	PARTICIPATION
70	S.PREMNATH	QUIZ	VET INSTITUTE OF ARTS & SCIENCE	06-05-20	PARTICIPATION
71	S.GOKUL	WEBINAR	SOLO LEARN	07-05-20	PARTICIPATION
72	M.HARINI	WEBINAR	SOLO LEARN	07-05-20	PARTICIPATION
73	R.DIVYARANI	WORKSHOP	KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY	08-05-20	PARTICIPATION
74	S.PREMNATH	POSTER DESIGNING CONTEST	KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY	08-05-20	PARTICIPATION
75	T.MOHANAPRIYA	WEBINAR	IEEE	08-05-20	PARTICIPATION
76	E.ARUNA	QUIZ	NEHRU ARTS AND SCIENCE COLLEGE	08-05-20	PARTICIPATION
77	T.MOHANAPRIYA	WEBINAR	IEEE	09-05-20	PARTICIPATION



78	T.MOHANAPRIYA	WEBINAR	IEEE	09-05-20	PARTICIPATION
79	T.MOHANAPRIYA	WEBINAR	IEEE	10-05-20	PARTICIPATION
80	T.MOHANAPRIYA	WEBINAR	IEEE	10-05-20	PARTICIPATION
81	S.P.MADHUPPRANESH	ONLINE SLOGAN CONTEST	K.S. RANGASAMY COLLEGE OF TECHNOLOGY	11-05-20	I PLACE
82	K.PAVITHRADEVI	WEBINAR	NANDHA ENGINEERING COLLEGE	11-05-20	PARTICIPATION
83	R.SHARMILA	ONLINE SLOGAN CONTEST	K.S. RANGASAMY COLLEGE OF TECHNOLOGY	11-05-20	PARTICIPATION
84	T.MOHANAPRIYA	WEBINAR	IEEE	11-05-20	PARTICIPATION
85	R.DIVYARANI	QUIZ	IDHAYA COLLEGE FOR WOMEN	12-05-20	PARTICIPATION
86	S.PREMNATH	QUIZ	AVC COLLEGE OF ENGINEERING	12-05-20	PARTICIPATION
87	S.PREMNATH	QUIZ	AVC COLLEGE OF ENGINEERING	12-05-20	PARTICIPATION
88	S.PREMNATH	QUIZ	IDHAYA COLLEGE FOR WOMEN	12-05-20	PARTICIPATION
89	M.SRIBARATHI	QUIZ	NEHRU ARTS AND SCIENCE COLLEGE	13-05-20	PARTICIPATION
90	M.SRIBARATHI	QUIZ	ROTRACT CLUB OF SCP JAIN COLLEGE	13-05-20	PARTICIPATION
91	M.SRIBARATHI	WEBINAR	SRI ESHWAR COLLEGE OF ENGINEERING	13-05-20	PARTICIPATION
92	R.DIVYARANI	QUIZ	AVC COLLEGE OF ENGINEERING	13-05-20	PARTICIPATION
93	E.ARUNA	QUIZ	IDHAYA COLLEGE FOR WOMEN	13-05-20	PARTICIPATION
94	M.SRIBARATHI	WEBINAR	SRI ESHWAR COLLEGE OF ENGINEERING	14-05-20	PARTICIPATION
95	M.SRIBARATHI	WEBINAR	SRI ESHWAR COLLEGE OF ENGINEERING	15-05-20	PARTICIPATION
96	R.DIVYARANI	QUIZ	Dr. RK SHANMUGAM ARTS & SCIENCE COLLEGE	15-05-20	PARTICIPATION
97	R.DIVYARANI	QUIZ	KSR ARTS AND SCIENCE COLLEGE FOR	15-05-20	PARTICIPATION



			WOMEN		
98	S.PREMNATH	QUIZ	Dr RK SHANMUGAM COLLEGE OF ARTS & SCIENCE	15-05-20	PARTICIPATION
99	R.SHARMILA	QUIZ	Dr RK SHANMUGAM COLLEGE OF ARTS & SCIENCE	15-05-20	PARTICIPATION
100	S.P.MADHUPPRANESH	QUIZ	Dr RK SHANMUGAM COLLEGE OF ARTS & SCIENCE	15-05-20	PARTICIPATION
101	T.MOHANAPRIYA	WEBINAR	IEEE	15-05-20	PARTICIPATION
102	E.ARUNA	QUIZ	AVC COLLEGE OF ENGINEERING	15-05-20	PARTICIPATION
103	E.ARUNA	QUIZ	Dr RK SHANMUGAM COLLEGE OF ARTS & SCIENCE	15-05-20	PARTICIPATION
104	M.PARTHIBAN	QUIZ	AVC COLLEGE OF ENGINEERING	15-05-20	PARTICIPATION
105	C.MANORAJANI	QUIZ	Dr RK SHANMUGAM COLLEGE OF ARTS & SCIENCE	16-05-20	PARTICIPATION
106	T.MOHANAPRIYA	WEBINAR	IEEE	17-05-20	PARTICIPATION
107	M.SRIBARATHI	WEBINAR	VIVEKANANDHA COLLEGE OF ARTS AND SCIENCE FOR WOMEN	18-05-20	PARTICIPATION
108	M.SRIBARATHI	WEBINAR	SRI ESHWAR COLLEGE OF ENGINEERING	18-05-20	PARTICIPATION
109	R.SHARMILA	QUIZ	K.S. RANGASAMY COLLEGE OF TECHNOLOGY	18-05-20	PARTICIPATION
110	S.P.MADHUPPRANESH	QUIZ	K.S. RANGASAMY COLLEGE OF TECHNOLOGY	18-05-20	PARTICIPATION
111	R.DIVYARANI	QUIZ	GURU NANAK COLLEGE	19-05-20	PARTICIPATION
112	M.SRIBARATHI	WEBINAR	SRI ESHWAR COLLEGE OF ENGINEERING	20-05-20	PARTICIPATION
113	T.MOHANAPRIYA	QUIZ	VELLAR COLLEGE OF	21-05-20	III PLACE





			ENGINEERING AND TECHNOLOGY		
114	R.DIVYARANI	QUIZ	KSR ARTS AND SCIENCE COLLEGE FOR WOMEN	21-05-20	PARTICIPATION
115	M.SRIBARATHI	WEBINAR	SRI ESHWAR COLLEGE OF ENGINEERING	22-05-20	PARTICIPATION
116	M.SRIBARATHI	WEBINAR	SRI ESHWAR COLLEGE OF ENGINEERING	23-05-20	PARTICIPATION
117	N.HARIPRIYA	WEBINAR	RMK ENGINEERING COLLEGE	23-05-20	PARTICIPATION
118	N.HARIPRIYA	WEBINAR	ERODE SEGUNTHAR ENGINEERING COLLEGE	23-05-20	PARTICIPATION
119	S.PRATHIKSHA	QUIZ	GRAMIN MAHILA PG COLLEGE	24-05-20	PARTICIPATION
120	S.PREMNATH	QUIZ	KSR ARTS AND SCIENCE COLLEGE FOR WOMEN	25-05-20	PARTICIPATION
121	T.MOHANAPRIYA	WEBINAR	VELLAMMAL ENGINEERING COLLEGE	26-05-20	PARTICIPATION
122	T.MOHANAPRIYA	ONLINE TRAINING	IEEE	27-05-20	PARTICIPATION
123	R.DIVYARANI	WEBINAR	ONEYES TECHNOLOGI ES	28-05-20	PARTICIPATION
124	S.PREMNATH	WEBINAR	ONEYES TECHNOLOGI ES	28-05-20	PARTICIPATION
125	S.PRATHIKSHA	QUIZ	SRI AYYAPPA COLLEGE FOR WOMEN	28-05-20	PARTICIPATION
126	S.PREMNATH	QUIZ	SRI AYYAPPA COLLEGE FOR WOMEN	29-05-20	PARTICIPATION
127	J.NAVEENKUMAR	WEBINAR	PANTECH SOLUTIONS	29-05-20	PARTICIPATION
128	N.HARIPRIYA	WEBINAR	EXCEL COLLEGE OF ENGINEERING AND TECHNOLOGY	30-05-20	PARTICIPATION
129	R.DIVYARANI	QUIZ	SRI AYYAPPA COLLEGE FOR WOMEN	30-05-20	PARTICIPATION
130	N.HARIPRIYA	WEBINAR	AVC COLLEGE OF ENGINEERING	31-05-20	PARTICIPATION



131	JEEVANANDHAM ER	QUIZ	PADMASHRI VIKHE PATIL COLLEGE	31-05-20	PARTICIPATION
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TABLE B.4.5.3 d Student Achievements in Academic Year 2018-2019

S.NO	NAME OF THE STUDENT	TITLE	INSTITUTION	DATE	ACHEIVEMENTS
1	HITESH KUMAR R	PROJECT	K P R INSTITUTE OF ENGINEERING AND TECHNOLOGY	07.09.2018 & 08.09.2018	PARTICIPATION
2	MAHESH C	PROJECT	K P R INSTITUTE OF ENGINEERING AND TECHNOLOGY	07.09.2018 & 08.09.2018	PARTICIPATION
3	LOGESHWARAN S	PROJECT	K P R INSTITUTE OF ENGINEERING AND TECHNOLOGY	07.09.2018 & 08.09.2018	PARTICIPATION
4	LOGESHWARAN S	PAPER PRESENTION	K P R INSTITUTE OF ENGINEERING AND TECHNOLOGY	07.09.2018 & 08.09.2018	PARTICIPATION
5	LOGESHWARAN S	BOOK DONATION	NANDHA BOOK DONOR'S CLUB	2018	AWARD
6	LOGESHWARAN S	PAPER PRESENTION	JAI SHRI RAM ENGINEERING COLLEGE	30.08.2018	PARTICIPATION
7	LOGESHWARAN S	PROJECT	JAI SHRI RAM ENGINEERING COLLEGE	30.08.2018	PARTICIPATION
8	LOGESHWARAN S	WORKSHOP	SOUND TECH MEDIA INSTITUTE OF AUDIO TECHNOLOGY , CHENNAI	02.09.2018	PARTICIPATION
9	ANGAMUTHU S	PROJECT	JAI SHRI RAM ENGINEERING COLLEGE	30.08.2018	PARTICIPATION
10	ASHIK S P	AWARENESS PROGRAMME(CS IR)	NANDHA ENGINEERING COLLEGE	06.09.2018	PARTICIPATION
11	ASHIK S P	AIR RIFLE	NEHRU AIR RIFLE ACADEMY	2018	I PLACE (ZONAL)
12	ASHIK S P	RIFLE SHOOTING	TAMILNADU SHOOTING ASSOCIATION	15.08.2018	6TH POSITION
13	SHALINI B	INPLANT	RAILNET	10.12.2018	PARTICIPATION

		TRAINING	SOFTWARE SOLUTIONS	- 15.12.2018	
14	SINDHU PRIYA R	INPLANT TRAINING	ABDENT TECHNOLOGIES	17.12.2018 - 19.12.2018	PARTICIPATION
15	ARUN KUMAR C	INPLANT TRAINING	ABDENT TECHNOLOGIES	17.12.2018 - 19.12.2018	PARTICIPATION
16	DEVIKA L	INPLANT TRAINING	ABDENT TECHNOLOGIES	17.12.2018 - 19.12.2018	PARTICIPATION
17	VISHALINI S	INPLANT TRAINING	ABDENT TECHNOLOGIES	17.12.2018 - 19.12.2018	PARTICIPATION
18	AARTHI V	INPLANT TRAINING	ABDENT TECHNOLOGIES	17.12.2018 - 19.12.2018	PARTICIPATION
19	MAHESH C	PROJECT	NANDHA ENGINEERING COLLEGE	03.01.2019 - 05.01.2019	II PLACE
20	ANISH R	PROJECT	NANDHA ENGINEERING COLLEGE	03.01.2019 - 05.01.2019	II PLACE
21	HITESH KUMAR R	PROJECT	NANDHA ENGINEERING COLLEGE	03.01.2019 - 05.01.2019	II PLACE
22	DHARSHINI S	PAPER PRESENTION	MPNMJ ENGINEERING COLLEGE	16.02.2019	I PLACE
23	SINDHU PRIYA R	PAPER PRESENTION	MPNMJ ENGINEERING COLLEGE	16.02.2019	I PLACE
24	PAVINATH R	VOLLEY BALL	NANDHA ENGINEERING COLLEGE	11.02.2019	I PLACE
25	NANDHINI S	HIGH JUMP	NANDHA ENGINEERING COLLEGE	11.02.2019	II PLACE
26	RAGHUPATHI M	400 - RELAY	NANDHA ENGINEERING COLLEGE	11.02.2019	II PLACE
27	BHARATH T	VOLLEY BALL	NANDHA ENGINEERING COLLEGE	11.02.2019	I PLACE
28	SURESH M	VOLLEY BALL	NANDHA ENGINEERING COLLEGE	11.02.2019	I PLACE
29	SURESH M	HIGH JUMP	NANDHA ENGINEERING COLLEGE	11.02.2019	II PLACE
30	RAGHUPATHI M	100 MTR	NANDHA ENGINEERING COLLEGE	11.02.2019	II PLACE
31	RAGHUPATHI M	LONG JUMP	NANDHA ENGINEERING COLLEGE	11.02.2019	II PLACE



32	RAGHUPATHI M	200 MTR	NANDHA ENGINEERING COLLEGE	11.02.2019	II PLACE
33	GARUNYA S	400 RELAY	NANDHA ENGINEERING COLLEGE	11.02.2019	I PLACE
34	DEEPIKA.N	400 RELAY	NANDHA ENGINEERING COLLEGE	11.02.2019	I PLACE
35	SUDHANI R	200 MTR	NANDHA ENGINEERING COLLEGE	11.02.2019	I PLACE
36	GOKULA LAKSHMI	CHESS	NANDHA ENGINEERING COLLEGE	11.02.2019	WINNER
37	RENUGADEVI R	LONG JUMP	NANDHA ENGINEERING COLLEGE	11.02.2019	II PLACE
38	RENUGADEVI R	CHESS	NANDHA ENGINEERING COLLEGE	11.02.2019	WINNER
39	RENUGADEVI R	400 RELAY	NANDHA ENGINEERING COLLEGE	11.02.2019	I PLACE
40	DINESH M	CHESS	NANDHA ENGINEERING COLLEGE	11.02.2019	WINNER
41	VIGESH.T	CHESS	NANDHA ENGINEERING COLLEGE	11.02.2019	WINNER
42	MOHEMED ABDHUL WAHAB M	1500 MTR	NANDHA ENGINEERING COLLEGE	11.02.2019	II PLACE
43	MAQESH BOOPATHI C	VOLLEY BALL	NANDHA ENGINEERING COLLEGE	11.02.2019	I PLACE
44	RAMKUMAR A	VOLLEY BALL	NANDHA ENGINEERING COLLEGE	11.02.2019	I PLACE
45	MOHEMED ABDHUL WAHAB M	VOLLEY BALL	NANDHA ENGINEERING COLLEGE	11.02.2019	I PLACE
46	VINO G V	VOLLEY BALL	NANDHA ENGINEERING COLLEGE	11.02.2019	I PLACE
47	SURESH S	400 RELAY	NANDHA ENGINEERING COLLEGE	11.02.2019	II PLACE
48	SAPTHAGIRIVASAN S P	CHESS	NANDHA ENGINEERING COLLEGE	11.02.2019	WINNER
49	DEVIKA L	400 RELAY	NANDHA ENGINEERING COLLEGE	11.02.2019	WINNER
50	SUGEETH V	CHESS	NANDHA ENGINEERING COLLEGE	11.02.2019	WINNER



51	SAKTHISIVARAJ M	CHESS	NANDHA ENGINEERING COLLEGE	11.02.2019	WINNER
52	NAGOORKANI S	VOLLEY BALL	NANDHA ENGINEERING COLLEGE	11.02.2019	WINNER
53	MOHAN KUMAR M	400 RELAY	NANDHA ENGINEERING COLLEGE	11.02.2019	II PLACE
54	MATHIVANAN D	400 RELAY	NANDHA ENGINEERING COLLEGE	11.02.2019	II PLACE
55	SAMINATHAN M	VOLLEY BALL	NANDHA ENGINEERING COLLEGE	11.02.2019	WINNER
56	KALAIKUMAR A	VOLLEY BALL	NANDHA ENGINEERING COLLEGE	11.02.2019	WINNER
57	MATHIVANAN D	VOLLEY BALL	NANDHA ENGINEERING COLLEGE	11.02.2019	WINNER
58	MATHIVANAN D	LONG JUMP	NANDHA ENGINEERING COLLEGE	11.02.2019	III PLACE
59	SNEKA S	CHESS	NANDHA ENGINEERING COLLEGE	11.02.2019	WINNER
60	MANIKANDAN G	VOLLEY BALL	NANDHA ENGINEERING COLLEGE	11.02.2019	WINNER
61	MANIKANDAN G	POLE VAULT	NANDHA ENGINEERING COLLEGE	11.02.2019	I PLACE



**CRITERION 5**  
**FACULTY INFORMATION**  
**AND**  
**CONTRIBUTIONS**

**Department of Electrical And Electronics Engineering**



<b>CRITERION 5</b>	<b>Faculty Information and Contributions</b>	<b>200</b>
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Self-Assessment (151.97)

Table B.5a Faculty Details CAY (2022- 2023)

Name of the Faculty Member	Qualification			Association with the Institution	Designation	Date on which Designated as Professor/ Associate Professor	Date of Joining the Institution	Department	Specialization	Academic Research			Currently Associated (Y/N) Date of Leaving (In case Currently Associated is ("No"))	Nature of Association (Regular/Contract)
	Degree (highest degree)	University	Year of attaining higher qualification							Research Paper Publications	Ph.D. Guidance	Faculty Receiving Ph.D. during the Assessment Years		
Dr. Balachandran M	M.E.,P h.D	Prist University	2014	YES	Prof	15.07.2019	15.07.2019	EEE	EEE	14	-	-	Y	REGULAR
Dr. Ramani G	M.E.,P h.D	Anna University	2018	YES	Prof	24.01.2018	01.06.2011	EEE	EEE	19	-	-	Y	REGULAR
Dr. Geetha P	M.E.,P h.D	Karpagam University	2017	YES	Prof	04.06.2018	04.06.2018	EEE	EEE	3	-	-	Y	REGULAR



Dr. Jamuna. P	M.E.,P h.D	Anna University	2020	YES	ASP	05.02.2020	09.07.2007	EEE	EEE	13	-	-	Y	REGULAR
Dr. Jayakumar T	M.E.,P h.D	Anna University	2011	YES	ASP	-	07.05.2014	EEE	CI	18	-	-	Y	REGULAR
Mr. Prabu M	M.E	Bharathiar University	2001	YES	AP	-	02.01.2008	EEE	EEE	28	-	-	Y	REGULAR
Mr. Prabhakaran. S	M.E	Anna University	2006	YES	AP	-	02.08.2013	EEE	EEE	6	-	-	Y	REGULAR
Mr. Ramraj B	M.E	Anna University	2010	YES	AP	-	06.06.2012	EEE	EEE	14	-	-	Y	REGULAR
Mr. Karthik Prabu B	M.E	Anna University	2012	YES	AP	-	05.05.2014	EEE	AE	8	-	-	Y	REGULAR
Ms. Pratheeba C	M.E	Anna University	2012	YES	AP	-	29.06.2015	EEE	EEE	9	-	-	Y	REGULAR
Ms. Vijayalakshmi R	M.E	Anna University	2012	YES	AP	-	29.01.2013	EEE	EEE	9	-	-	Y	REGULAR
Mr. Arunkumar V	M.E	Anna University	2013	YES	AP	-	27.06.2013	EEE	EEE	14	-	-	Y	REGULAR
Mr. Elango S	M.E	Anna University	2010	YES	AP	-	27.06.2013	EEE	EEE	7	-	-	Y	REGULAR





Ms. Sathyasree K	M.E	Anna University	2012	YES	AP	-	06.06.2012	EEE	EEE	8	-	-	Y	REGULAR
Mr. Krishnagandhi P	M.E(P h.D)	Anna University	2012	YES	AP	-	06.06.2012	EEE	EEE	9	-	-	Y	REGULAR
Mr. Ravichandran V	M.E	Anna University	2015	YES	AP	-	20.07.2015	EEE	EEE	7	-	-	Y	REGULAR
Mr. Uvaraj P	M.E	Anna University	2014	YES	AP	-	27.07.2015	EEE	EEE	3	-	-	Y	REGULAR
Ms. Manjula M	M.E	Anna University	2016	YES	AP	-	01.07.2016	EEE	EEE	-	-	-	Y	REGULAR

Table B.5b Faculty Details CAY (2021- 2022)

Name of the Faculty Member	Qualification			Association with the Institution	Designation	Date on which Designated as Professor/ Associate Professor	Date of Joining the Institution	Department	Specialization	Academic Research			Currently Associated (Y/N) Date of Leaving (In case Currently Associated is ("No"))	Nature of Association (Regular/Contract)
	Degree (highest degree)	University	Year of attaining higher qualification							Research Paper Publications	Ph.D. Guidance	Faculty Receiving Ph.D. during the Assessment Years		
Dr. Sathesh. A	M.Tech.,M	Anna	2013	YES	Prof.	11.10.2013	11.06.2003	EEE	EEE	18	-	-	N	REGULAR



	B.A.,Ph.D	University											30.4.22	
Dr. Balachandran M	M.E.,Ph.D	Prist University	2014	YES	Prof	15.07.2019	15.07.2019	EEE	EEE	14	-	-	Y	REGULAR
Dr. Ramani G	M.E.,Ph.D	Anna University	2018	YES	Prof	24.01.2018	01.06.2011	EEE	EEE	19	-	-	Y	REGULAR
Dr. Geetha P	M.E.,Ph.D	Karpaga m University	2017	YES	Prof	04.06.2018	04.06.2018	EEE	EEE	3	-	-	Y	REGULAR
Dr. Jamuna. P	M.E.,Ph.D	Anna University	2020	YES	ASP	05.02.2020	09.07.2007	EEE	EEE	13	-	-	Y	REGULAR
Dr. Arthy G	M.E.,Ph.D	Anna University	2019	YES	ASP	-	15.07.2019	EEE	EEE	5	-	-	N 31.5.22	REGULAR
Dr. Jayakumar T	M.E.,Ph.D	Anna University	2011	YES	ASP	-	07.05.2014	EEE	CI	18	-	Y	Y	REGULAR



Mr. Prabu M	M.E	Bharathi ar Universi ty	2001	YES	AP	-	02.01.2008	EEE	EEE	28	-	-	Y	REGULAR
Mr. Prabhakaran. S	M.E	Anna Universi ty	2006	YES	AP	-	02.08.2013	EEE	EEE	6	-	-	Y	REGULAR
Mr. Ramraj B	M.E	Anna Universi ty	2010	YES	AP	-	06.06.2012	EEE	EEE	14	-	-	Y	REGULAR
Mr. Karthik Prabu B	M.E	Anna Universi ty	2012	YES	AP	-	05.05.2014	EEE	AE	8	-	-	Y	REGULAR
Ms. Pratheeba C	M.E	Anna Universi ty	2012	YES	AP	-	29.06.2015	EEE	EEE	9	-	-	Y	REGULAR
Ms. Vijayalakshmi R	M.E	Anna Universi ty	2012	YES	AP	-	29.01.2013	EEE	EEE	9	-	-	Y	REGULAR
Mr. Arunkumar V	M.E	Anna Universi	2013	YES	AP	-	27.06.2013	EEE	EEE	14	-	-	Y	REGULAR



		ty												
Mr. Elango S	M.E	Anna Universi ty	2010	YES	AP	-	27.06.2013	EEE	EEE	7	-	-	Y	REGULAR
Ms. Sathyasree K	M.E	Anna Universi ty	2012	YES	AP	-	06.06.2012	EEE	EEE	8	-	-	Y	REGULAR
Mr. Krishnagandhi P	M.E(Ph.D)	Anna Universi ty	2012	YES	AP	-	06.06.2012	EEE	EEE	9	-	-	Y	REGULAR
Mr. Sasi Kumar S	M.Tech	Dr.MG R Educati onal & Researc h Institute	2012	YES	AP	-	28.06.2013	EEE	IC	5	-	-	N 31.5.22	REGULAR
Ms. Kalaiselvi N	M.E	Anna Universi ty	2014	YES	AP	-	03.12.2014	EEE	EEE	-	-	-	N 31.5.22	REGULAR
Mr. Ravichandran V	M.E	Anna Universi ty	2015	YES	AP	-	20.07.2015	EEE	EEE	7	-	-	Y	REGULAR



Mr. Uvaraj P	M.E	Anna University	2014	YES	AP	-	27.07.2015	EEE	EEE	3	-	-	Y	REGULAR
Ms. Manjula M	M.E	Anna University	2016	YES	AP	-	01.07.2016	EEE	EEE	-	-	-	Y	REGULAR

Table B.5c Faculty Details CAY (2020- 2021)

Name of the Faculty Member	Qualification			Association with the Institution	Designation	Date on which Designated as Professor/ Associate Professor	Date of Joining the Institution	Department	Specialization	Academic Research			Currently Associated (Y/N) Date of Leaving (In case Currently Associated is ("No"))	Nature of Association (Regular/Contract)
	Degree (highest degree)	University	Year of attaining higher qualification							Research Paper Publications	Ph.D. Guidance	Faculty Receiving Ph.D. during the Assessment Years		
Dr. Satheesh. A	M.Tech ,M.B.A ,Ph.D	Anna University	2013	YES	Prof.	11.10.2013	11.06.2003	EEE	EEE	18	-	-	Y	REGULAR



Dr. Balachandran M	M.E.,P h.D	Prist University	2014	YES	Prof	15.07.2019	15.07.2019	EEE	EEE	14	-	-	Y	REGULAR
Dr. Ramani G	M.E.,P h.D	Anna University	2018	YES	Prof	24.01.2018	01.06.2011	EEE	EEE	16	-	-	Y	REGULAR
Dr. Geetha P	M.E.,P h.D	Karpagam University	2017	YES	Prof	04.06.2018	04.06.2018	EEE	EEE	3	-	-	Y	REGULAR
Dr. Jamuna. P	M.E.,P h.D	Anna University	2020	YES	ASP	05.02.2020	09.07.2007	EEE	EEE	10	-	-	Y	REGULAR
Dr. Arthy G	M.E.,P h.D	Anna University	2019	YES	ASP	-	15.07.2019	EEE	EEE	5	-	-	Y	REGULAR
Mr. Prabu M	M.E	Bharathiar University	2001	YES	AP	-	02.01.2008	EEE	EEE	25	-	-	Y	REGULAR
Mr. Prabhakaran. S	M.E	Anna University	2006	YES	AP	-	02.08.2013	EEE	EEE	5	-	-	Y	REGULAR
Mr. Ramraj B	M.E	Anna University	2010	YES	AP	-	06.06.2012	EEE	EEE	12	-	-	Y	REGULAR
Mr. Karthik Prabu B	M.E	Anna University	2012	YES	AP	-	05.05.2014	EEE	AE	7	-	-	Y	REGULAR
Ms. Pratheeba C	M.E	Anna University	2012	YES	AP	-	29.06.2015	EEE	EEE	7	-	-	Y	REGULAR



Ms. Vijayalakshmi R	M.E	Anna University	2012	YES	AP	-	29.01.2013	EEE	EEE	8	-	-	Y	REGULAR
Mr. Arunkumar V	M.E	Anna University	2013	YES	AP	-	27.06.2013	EEE	EEE	13	-	-	Y	REGULAR
Mr. Elango S	M.E	Anna University	2010	YES	AP	-	27.06.2013	EEE	EEE	6	-	-	Y	REGULAR
Mr. Jayakumar T	M.E(P h.D)	Anna University	2011	YES	AP	-	07.05.2014	EEE	CI	15	-	-	Y	REGULAR
Ms. Sathyasree K	M.E	Anna University	2012	YES	AP	-	06.06.2012	EEE	EEE	8	-	-	Y	REGULAR
Mr. Krishnagandhi P	M.E(P h.D)	Anna University	2012	YES	AP	-	06.06.2012	EEE	EEE	8	-	-	Y	REGULAR
Mr. Sasi Kumar S	M.Tech	Dr.MGR Educational & Research Institute	2012	YES	AP	-	28.06.2013	EEE	IC	5	-	-	Y	REGULAR
Ms. Sapthika Parthi P	M.E	Anna University	2013	YES	AP	-	28.06.2013	EEE	AE	5	-	-	N 31.5.21	REGULAR
Mr. Jeyavel S	M.E	Anna University	2013	YES	AP	-	28.10.2013	EEE	EST	-	-	-	N 31.5.21	REGULAR



Ms. Kalaiselvi N	M.E	Anna University	2014	YES	AP	-	03.12.2014	EEE	EEE	-	-	-	Y	REGULAR
Mr. Asokkumar G	M.E	Anna University	2011	YES	AP	-	03.03.2015	EEE	EEE	-	-	-	N 31.5.21	REGULAR
Mr. Praveen Santhosh Kumar G	M.E	Anna University	2010	YES	AP	-	22.06.2015	EEE	VLSI	5	-	-	Y	REGULAR
Mr. Ravichandran V	M.E	Anna University	2015	YES	AP	-	20.07.2015	EEE	EEE	6	-	-	Y	REGULAR
Mr. Uvaraj P	M.E	Anna University	2014	YES	AP	-	27.07.2015	EEE	EEE	3	-	-	Y	REGULAR
Ms. Manjula M	M.E	Anna University	2016	YES	AP	-	01.07.2016	EEE	EEE	-	-	-	Y	REGULAR
Ms. Mythily C	M.E	Anna University	2014	YES	AP	-	04.06.2020	EEE	EEE	-	-	-	N 31.5.21	REGULAR





Table B.5d Faculty Details CAY (2019- 2020)

Name of the Faculty Member	Qualification			Association with the Institution	Designation	Date on which Designated as Professor/ Associate Professor	Date of Joining the Institution	Department	Specialization	Academic Research			Date of Leaving Currently Associated (Y/N) (In case Currently Associated is ("No")	Nature of Association (Regular/Contract)
	Degree (highest degree)	University	Year of attaining higher qualification							Research Paper Publications	Ph.D. Guidance	Faculty Receiving Ph.D. during the Assessment Years		
Dr. Satheesh. A	M.Tech. M.B.A. Ph.D	Anna University	2013	YES	Prof.	11.10.2013	11.06.2003	EEE	EEE	17	-	-	Y	REGULAR
Dr. Balachandran M	M.E.,Ph D	Prist University	2014	YES	Prof	15.07.2019	15.07.2019	EEE	EEE	14	-	-	Y	REGULAR
Dr. Ramani G	M.E.,Ph D	Anna University	2018	YES	Prof	24.01.2018	01.06.2011	EEE	EEE	12	-	-	Y	REGULAR
Dr. Geetha P	M.E.,Ph D	Karpagam University	2017	YES	Prof	04.06.2018	04.06.2018	EEE	EEE	3	-	-	Y	REGULAR



Dr. Arthy G	M.E.,Ph D	Anna University	2019	YES	AP	-	15.07.2019	EEE	EEE	5	-	Y 06.12. 2019	Y	REGULAR
Dr. Jamuna. P	M.E.,Ph D	Anna University	2020	YES	AP	-	09.07.2007	EEE	EEE	7	-	Y 31.1.20 20	Y	REGULAR
Mr. Prabu M	M.E	Bharathiar University	2001	YES	AP	-	02.01.2008	EEE	EEE	23	-	-	Y	REGULAR
Mr. Prabhakaran. S	M.E	Anna University	2006	YES	AP	-	02.08.2013	EEE	EEE	4	-	-	Y	REGULAR
Mr. Ramraj B	M.E	Anna University	2010	YES	AP	-	06.06.2012	EEE	EEE	9	-	-	Y	REGULAR
Ms. Pratheeba C	M.E	Anna University	2012	YES	AP	-	29.06.2015	EEE	EEE	7	-	-	Y	REGULAR
Ms. Vijayalakshmi R	M.E	Anna University	2012	YES	AP	-	29.01.2013	EEE	EEE	8	-	-	Y	REGULAR
Mr. Arunkumar V	M.E	Anna University	2013	YES	AP	-	27.06.2013	EEE	EEE	11	-	-	Y	REGULAR
Mr. Elango S	M.E	Anna University	2010	YES	AP	-	27.06.2013	EEE	EEE	5	-	-	Y	REGULAR



Mr. Jayakumar T	M.E(Ph D)	Anna University	2011	YES	AP	-	07.05.2014	EEE	CI	11	-	-	Y	REGULAR
Ms. Sathyasree K	M.E	Anna University	2012	YES	AP	-	06.06.2012	EEE	EEE	8	-	-	Y	REGULAR
Mr. Krishnagandhi P	M.E(Ph D)	Anna University	2012	YES	AP	-	06.06.2012	EEE	EEE	7	-	-	Y	REGULAR
Mr. Jeyavel S	M.E	Anna University	2013	YES	AP	-	28.10.2013	EEE	EST	-	-	-	Y	REGULAR
Ms. Kalaiselvi N	M.E	Anna University	2014	YES	AP	-	03.12.2014	EEE	EEE	-	-	-	Y	REGULAR
Mr. Asokkumar G	M.E	Anna University	2011	YES	AP	-	03.03.2015	EEE	EEE	-	-	-	Y	REGULAR
Mr. Ravichandran V	M.E	Anna University	2015	YES	AP	-	20.07.2015	EEE	EEE	6	-	-	Y	REGULAR
Mr. Uvaraj P	M.E	Anna University	2014	YES	AP	-	27.07.2015	EEE	EEE	3	-	-	Y	REGULAR
Ms. Manjula M	M.E	Anna University	2016	YES	AP	-	01.07.2016	EEE	EEE	-	-	-	Y	REGULAR
Ms. Sinduja N	M.E	Anna University	2014	YES	AP	-	21.12.2018	EEE	EEE	-	-	-	N 1.6.2020	REGULAR



Mr. Karthik Prabu B	M.E	Anna University	2012	YES	AP	-	05.05.2014	EEE	AE	6	-	-	Y	REGULAR
Mr. Sasi Kumar S	M.Tech	Dr.MGR Education al & Research Institute	2012	YES	AP	-	28.06.2013	EEE	IC	5	-	-	Y	REGULAR
Mr. Sapthika Parthi P	M.E	Anna University	2013	YES	AP	-	28.06.2013	EEE	AE	5	-	-	Y	REGULAR
Mr. Praveen Santhosh Kumar G	M.E	Anna University	2010	YES	AP	-	22.06.2015	EEE	VLSI	5	-	-	Y	REGULAR

**Note:** Please provide details for the faculty of the department, cumulative information for all the shifts for all academic years starting from current year in above format in Annexure



5.1 Student-Faculty Ratio (SFR) (20) **C**

**Self Assessment (18)** **R**

(To be calculated at Department Level) **I**

No. of UG Programs in the Department (n): **T**

No. of PG Programs in the Department (m): **E**

No. of Students in UG 2nd Year= u1; No. of Students in UG 3rd Year= u2; **R**

No. of Students in UG 4<sup>th</sup> Year= u3; **R**

No. of Students in PG 1st Year= p1; No. of Students in PG 2nd Year= p2 **I**

**No. of Students = Sanctioned Intake + Actual admitted lateral entry students** **O**

(The above data to be provided considering all the UG and PG programs of the department) **N**

**S=Number of Students in the Department = UG1+UG2+UG3+PG1+PG2**

**F = Total Number of Faculty Members in the Department (excluding first year faculty)** **5**

**Student Faculty Ratio (SFR) = S / F**

### **CAY : 2021-22**

Number of UG Programs (n) = **01**

Number of PG Programs (m) = **0**

Number of students in UG 2nd year (U1) = 60+17 = **77**

Number of students in UG 3rd year (U2) = 120+32= **152**

Number of students in UG 4th year (U3) = 120+27= **147**

Number of students in PG 1st year (P1) = **0**

Number of students in PG 2nd year (P2) = **0**

**S=Number of students in the department = U1+U2+U3+P1+P2= 376**

**F=Number of Faculties in the department (excluding first year faculty): 20**



**CAYm1: 2020-21**

Number of UG Programs (n) = **01**

Number of PG Programs (m) = **0**

Number of students in UG 2nd year (U1) = 120+32 = **152**

Number of students in UG 3rd year (U2) = 120+27=**147**

Number of students in UG 4th year (U3) = 120+15=**135**

Number of students in PG 1st year (P1) = **0**

Number of students in PG 2nd year (P2) = **0**

S=Number of students in the department = U1+U2+U3+P1+P2= **434**

F=Number of Faculties in the department (excluding first year faculty): **25**

**CAYm2: 2019-20**

Number of UG Programs (n) = **01**

Number of PG Programs (m) = **00**

Number of students in UG 2nd year (U1) = 120+27 =**147**

Number of students in UG 3rd year (U2) = 120+15=**135**

Number of students in UG 4th year (U3) = 120+16=**136**

Number of students in PG 1st year (P1) = **0**

Number of students in PG 2nd year (P2) = **0**

S=Number of students in the department = U1+U2+U3+P1+P2= **418**

F=Number of Faculties in the department (excluding first year faculty): **25**



Table B.5.1a Student Faculty Ratio

YEAR		CAY (21-22)	CAYm1(20-21)	CAYm2(19-20)
U1		77	152	147
U2		152	147	135
U3		147	135	136
UG		376	434	418
P1		0	0	0
P2		0	0	0
PG		0	0	0
<b>Total Number of students in the department(S)</b>	<b>S=UG+PG</b>	376	434	418
<b>Number of Faculties in the department(F)</b>	<b>F</b>	20	25	25
<b>Student Faculty Ratio n (SFR)</b>	<b>SFR=S/F</b>	<b>(SFR1=S1/F1)</b> <b>SFR1= 18.8</b>	<b>(SFR2= S2/F2)</b> <b>SFR2= 17.36</b>	<b>(SFR3= S3/F3)</b> <b>SFR3= 16.72</b>
<b>Average SFR</b>		<b>SFR=(SFR1+SFR2+SFR3)/3</b> <b>SFR=(18.8+17.36+16.72)/3</b>		<b>17.63</b>

Marks to be given proportionally from a maximum of 20 to a minimum of 10 for average SFR between 15:1 to 25:1, and zero for average SFR higher than 25:1. Marks distribution is given as below:

$\leq 15$  - 20Marks

$\leq 17$  - 18Marks

$\leq 19$  - 16Marks

$\leq 21$  - 14Marks

$\leq 23$  - 12Marks

$\leq 25$  - 10Marks

$> 25.0$  - 0 Marks



**Note: Minimum 75% should be Regular/ full time faculty and the remaining shall be Contractual Faculty as per AICTE norms and standards.**

**The contractual faculty (doing away with the terminology of visiting/adjunct faculty, whatsoever) who have taught for 2 consecutive semesters in the corresponding academic year on full time basis shall be considered for the purpose of calculation in the Student Faculty Ratio.**

**5.1.1 Provide the information about the regular and contractual faculty as per the format mentioned below:**

**Table B.5.1.1a Regular and Contractual faculty Details**

<b>Year</b>	<b>Total number of regular faculty in the department</b>	<b>Total number of contractual faculty in the department</b>
<b>CAY (2021-22)</b>	20	NIL
<b>CAYm1(2020-21)</b>	25	NIL
<b>CAYm2(2019-20)</b>	25	NIL

## **5.2 Faculty Cadre Proportion**

**(20)**

**Self Assessment (20)**

The reference Faculty cadre proportion is 1(F1):2(F2):6(F3)

F1: Number of Professors required =  $1/9 \times$  Number of Faculty required to comply with 20:1 Student- Faculty ratio based on no. of students (N) as per 5.1

F2: Number of Associate Professors required =  $2/9 \times$  Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per 5.1

F3: Number of Assistant Professors required =  $6/9 \times$  Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per 5.1





Table B.5.2a Faculty Cadre Proportion

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
<b>CAY (2021-22)</b>	2	4	4	3	12	13
<b>CAYm1(2020-21)</b>	2	4	4	2	14	19
<b>CAYm2(2019-20)</b>	2	4	4	0	13	21
<b>Average Numbers</b>	RF1=2	AF1=4	RF2=4	AF2=1.67	RF3=13	AF3=17.67

$$\text{CadreRatio Marks} = \left[ \left[ \frac{AF1}{RF1} \right] + \left[ \frac{AF2 * 0.6}{RF2} \right] + \left[ \frac{AF3 * 0.4}{RF3} \right] \right] * 10$$

$$\text{Cadre Ratio Marks} = ((4/2) + ((1.67/4) * 0.6) + ((17.67/13) * 0.4)) * 10 = 27.9419$$

$$\text{Cadre Ratio Marks} = 20$$

*Maximum marks to be limited if it exceeds 20*

### 5.3 Faculty Qualification

(20)

#### Self-Assessment (12.97)

FQ = 2.0 x [(10X + 4Y)/F] where x is no. of regular faculty with Ph.D., Y is no. of regular faculty with M. Tech., F is no. of regular faculty required to comply 20:1 Faculty Student ratio (no. of faculty and no. of students required are to be calculated as per 5.1)



Table B.5.3a Faculty Qualification

Year	X	Y	F	$FQ = 2.0 \times [(10X + 4Y)/F]$
CAY (2021-22)	7	13	18	13.56
CAYm1(2020-21)	6	19	21	12.95
CAYm2(2019-20)	4	21	20	12.4
<b>Average Assessment</b>				<b>12.97</b>

## 5.4 Faculty Retention

(10)

Self Assessment (08)

Item	Marks
(% of faculty retained during the period of assessment keeping CAYm3 as base year)	
>= 90% of required Faculty members retained during the period of assessment keeping CAYm3 as base year	10
>=75% of required Faculty members retained during the period of assessment keeping CAYm3 as base year	08
>= 60% of required Faculty members retained during the period of assessment keeping CAYm3 as base year	06
>= 50% of required Faculty members retained during the period of assessment keeping CAYm3 as base year	04
< 50% of required Faculty members retained during the period of assessment keeping CAYm3 as base year	0

No. of regular faculty members in CAYm2=25 CAYm1=25 CAY=20



Table B.5.4a Faculty Retention Details

S.No	Name of the Faculty	Faculty Retention Details			
		18-19	19-20	20-21	21-22
1	Dr. Satheesh. A	✓	✓	✓	✓
2	Dr.Balachandran M	–	✓	✓	✓
3	Dr. Ramani G	✓	✓	✓	✓
4	Dr.Geetha P	–	✓	✓	✓
5	Dr.Arthy G	–	✓	✓	✓
6	Dr. Jamuna. P	✓	✓	✓	✓
7	Mr.Prabu M	✓	✓	✓	✓
8	Mr. Prabhakaran. S	✓	✓	✓	✓
9	Mr. Ramraj B	✓	✓	✓	✓
10	Ms.Pratheeba C	✓	✓	✓	✓
11	Ms.Vijayalakshmi R	✓	✓	✓	✓
12	Mr.Arunkumar V	✓	✓	✓	✓
13	Mr.Elango S	✓	✓	✓	✓
14	Mr.Jayakumar T	✓	✓	✓	✓
15	Ms. Sathyasree K	✓	✓	✓	✓
16	Mr. Krishnagandhi P	✓	✓	✓	✓



17	Mr. Jeyavel S	✓	✓	✓	–
18	Ms. Kalaiselvi N	✓	✓	✓	✓
19	Mr. Asokkumar G	✓	✓	✓	–
20	Ms. Manjula M	✓	✓	✓	✓
21	Ms. Sinduja N	–	✓	–	–
22	Mr. Karthik Prabu B	✓	✓	✓	✓
23	Mr. Sasi Kumar S	✓	✓	✓	✓
24	Mr. Saphika Parthi P	✓	✓	✓	–
25	Mr. Praveen Santhosh Kumar G	✓	✓	✓	–
26	Mythily C	–	–	✓	–

Table B.5.4b Faculty Retention Ratio

Description	2021-22	2020-2021
No of Faculty Retained	17	21
Total No of Faculty	20	25
% Of Faculty Retained	85	84
<b>Average</b>	<b>84.5</b>	



**Faculty Retention = 84.5%**

**5.5 Faculty competencies in correlation to Program Specific Criteria (10)**

**Self Assessment (10)**

*(List the program specific criteria and the competencies (specialization, research publications, course developments etc.,) of faculty to correlate the program specific criteria and competencies.)*

Program Specific Criteria for Electrical and Electronics Engineering

The curriculum enables the Programme to prepare graduates to have competence in the following curricular areas:

1. The application of circuit analysis and design, computer programming, associated software, digital electronics, Microprocessors and Microcontrollers and engineering standards to the testing, operation and maintenance of electrical systems.
2. The application of natural sciences and mathematics at or above the level of algebra and trigonometry to the testing, operation and maintenance of electrical systems.
3. The ability to analyze, design and implement one or more of the following: Electrical Machine, Electric power generation, transmission and distribution , , Power Systems, Power Electronics, Electric Drives and Control ,Renewable energy systems,PLC/Automation and Embedded Systems.
4. The ability to apply project management techniques Electrical and Electronics Engineering programs.
5. Research and development in the physical Control Systems, engineering, and life sciences.



Table B.5.5a Faculty competencies Details

Program Specific Criteria as per Lead Societies	Name of the Faculty	Specialization	Book / Research Publications (RP) & Citations (CI)	Course Competencies	Area of Project Guided
Circuit analysis, Field Theory, Fundamentals of Electric Power Utilization	Dr. Satheesh. A	Power System	Research Publications: 18 h- Index:3 No. of Citations: 57 i10 index:2	-	Power Electronics, Embedded systems, Power quality, Microprocessors and Microcontrollers
Electrical Machine, Power Electronics, Renewable energy systems	Dr. Balachandran M	Renewable energy systems	Research Publications: 14 h- Index:2 No. of Citations: 12 i10 index:-	-	Power Electronics, Power quality, Renewable energy systems
Transmission and Distribution, Digital Electronics, Embedded systems, Power	Dr. Ramani G	Embedded System Technologies	Research Publications: 19 h- Index:1 No. of Citations: 3	Power System Simulation Lab Manual	Embedded systems, Microprocessors and Microcontrollers, IoT, Renewable



system Analysis			i10 index:-		energy systems, Electric Vehicle
Electrical Machine, Power Electronics, Electric Drives and Control	Dr.Geetha P	Power Electronics & Drives	Research Publications:3 h- Index:2 No. of Citations: 13 i10 index:-	-	Power Electronics,Power quality, Microprocessors and Microcontrollers
Electrical Machines, Special Electrical Machines,Power Electronics, Electric Drives and Control	Dr. Jamuna. P	Inverters & Converters	Research Publications: 17 h- Index:2 No. of Citations: 9 i10 index: -	NPTEL Course:Introdu ction to Internet of Things  Introduction to Smart Grid	Inverters &Converters, Power quality, Renewable energy systems,Electric Vehicle,IoT
Digital Electronics, Microprocessors and Microcontrollers	Dr.Arthy G	Communicati on	Research Publications:5 h- Index:2 No. of Citations: 10 i10 index:-	-	Embedded systems, Microprocessors and Microcontrollers
Circuit analysis,Measure ment and Instrumentation,B asic EEE, Digital	Mr.Prabu M	VLSI Design	Research Publications: 27 h- Index:1	NPTEL Course:Introdu ction to Internet of	Microprocessors and Microcontrollers, Renewable energy systems,IoT,Power



Electronics,VLSI Design			No. of Citations: 7 i10 index:-	Things  Introduction to Smart Grid  Power System Simulation Lab Manual	Quality,Inverter and Converter
Basic EEE, Transmission and Distribution,Protection and Switchgear, Fundamentals of Electric Power Utilization	Mr. Prabhakaran. S	Power Electronics & Drives	Research Publications:6 h- Index:1 No. of Citations:2 i10 index:-	-	Power Electronics,Power quality, Renewable energy systems,
Power system Operation and Control,Microprocessors and Microcontrollers, Digital Signal Processing, Transmission and Distribution	Mr. Ramraj B	Signal Processing	Research Publications: 14 h- Index:2 No. of Citations: 9 i10 index:-	NPTEL Course:Introduction to Internet of Things  Non Conventional Energy Sources	Microprocessors and Microcontrollers, IoT,Power Electronics
Control Systems,Power Plant Instrumentation,I	Karthik Prabu B	Control &Instrumentation	Research Publications:8 h- Index:- No. of	-	Embedded Systems,IoT, Renewable energy systems





Industrial Instrumentation			Citations: - i10 index:-		
Digital Electronics, Microprocessors and Microcontrollers, Power Electronics, Circuit analysis	Ms.Pratheeba C	Power Electronics & Drives	Research Publications: 9 h- Index:- No. of Citations:- i10 index:-	NPTEL Course:Microprocessors and Microcontrollers Introduction to Smart Grid Non Conventional Energy Sources	Power Electronics,Power quality, Microprocessors and Microcontrollers, Embedded systems
Electrical Machines, Power Electronics,Power System Protection and Switchgear	Ms.Vijayalakshmi R	Electrical Machines	Research Publications:9 h- Index:1 No. of Citations: 5 i10 index:-	NPTEL Course: Introduction to Smart Grid Power Electronics Lab Manual	Applications of Electrical machines and Power Electronics, Renewable energy systems & Power quality Improvements
Electronic Devices & circuits ,Linear Integrated Circuits,Power	Mr.Arunkumar V	Power Electronics	Research Publications: 14 h- Index:1 No. of	NPTEL Course: Introduction to Smart Grid Non	Power Electronics,Power System,Renewable energy systems,Power



system Protection and Switchgear			Citations: 3 i10 index:-	Conventional Energy Sources  Electronics Devices and Circuits Lab Manual	Quality
Electrical Machines- I,Internet of Things, Transmission and Distribution,Communication Engineering	Mr.Elango S	Internet of Things	Research Publications:7 h- Index:1 No. of Citations: 2 i10 index:-	NPTEL Course: Introduction to Smart Grid Introduction to Internet of Things  Udemy:Arduino Programming  Engineering Practices Lab Manual	Internet of Things, Power Electronics, Embedded systems
Measurements and Instrumentation, Renewable Energy	Dr.Jayakumar T	Control &Instrumentation	Research Publications: 16 h- Index:5 No. of	NPTEL Course:Introduction to Internet of Things	Inverters &Converters, Power quality, Renewable energy systems,IoT



Technology, Energy Conservation & Auditing, Fibre optics and Laser Instruments			Citations: 42 i10 index:- Patent: 1	Control and Instrumentation Lab Manual	
Electronic Devices & circuits ,Linear Integrated Circuits,Medical Instrumentation,Special Electrical Machines,Analysis of Inverters	Ms. Sathyasree K	Power Electronics	Research Publications: 9 h- Index:1 No. of Citations: 1 i10 index:-	Digital and Linear Integrated Circuits Lab Manual	Power quality, Inverters & Converters, Power quality, Renewable energy systems, IoT
Transmission and Distribution, Power System Analysis, Power System Operation & Control, High Voltage Engineering	Mr. Krishnagandhi P	Power Systems	Research Publications: 9 h- Index:2 No. of Citations: 14 i10 index:- Patent: 1	Udemy: Internet of Things Swayam-UGC: Academic Writing  Electric Circuits Lab Manual	Smart Grids, Microgrids, IoT, Electric Vehicles, Industrial Automation , Renewable energy systems
Fibre optics and Laser Instruments, Industrial Instrumentation	Sasi Kumar S	Instrumentation & Control	Research Publications:5 h- Index:- No. of Citations: -	-	Embedded Systems, IoT



			i10 index:-		
Digital Signal Processing, Microprocessors and Microcontrollers, Electronic Devices & circuits	Praveen Santhosh Kumar G	Digital Signal Processing	Research Publications:5 h- Index:1 No. of Citations: 3 i10 index:-	NPTEL Course:Introduction to Internet of Things Microprocessors and Microcontrollers	Microprocessors and Microcontrollers, Embedded Systems, Image Processing
Power Electronics, Control system, Transmission and Distribution	Mr.Ravichandran V	Power Electronics	Research Publications: 7 h- Index:- No. of Citations: - i10 index:-	You tube Channel:RND Engineering NPTEL course:Introduction to smart grid Non Conventional Energy Sources	Applications of Electrical machines and Power Electronics, Renewable energy systems & Power quality Improvements



**5.6. Innovations by the Faculty in Teaching and Learning (10)****Self Assessment (10)**

Contributions to teaching and learning are activities that contribute to the improvement of student learning. Many of such innovative initiatives taken by faculty and staff of the department can be observed in the Course Files, Laboratory Manuals and other documents that are maintained in the department. Any contributions to teaching and learning should satisfy the following criteria:

- a) Innovations in use of Information and Communication Technologies (ICT)
- b) Innovations in instructional delivery and methods
- c) Innovations in Assessment
- d) Innovations in Evaluation

**a) Innovations in use of Information and Communication Technologies (ICT):****ICT**

Every classroom is provided with LED projector. The faculty member can use black board, LED projector judiciously during the lecture delivery.

Audio-visual learning:

- In many subjects (wherever necessary) audio-visual aids are used.
- It is a proved fact that audio-visual presentations in the classrooms are more effective in capturing the attention of students.

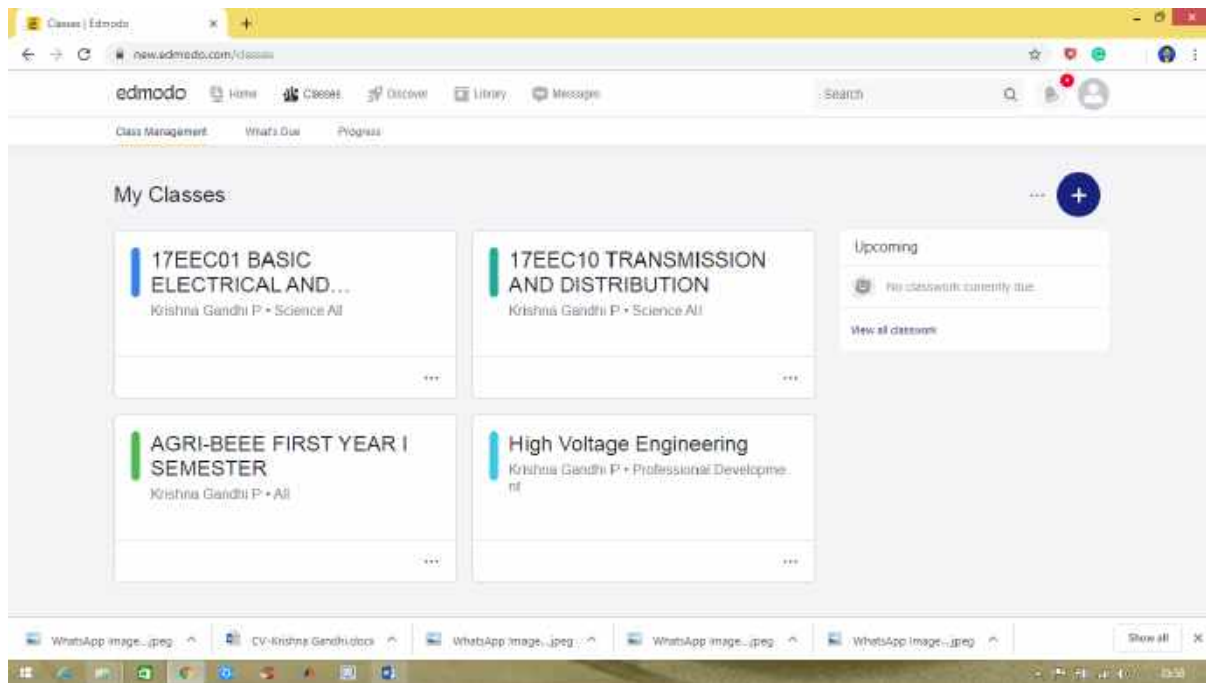
**NPTEL Videos:**

- NPTEL provides E-learning through online Web and Video courses in various streams.

**Edmodo:**

Using Edmodo, students and teachers can reach out to one another and connect by sharing ideas, problems, and helpful tips. All the faculty members of the Department of Electrical and Electronics Engineering are using Edmodo to conduct online tests and a sample page is shown in Figure 5.6.a





**Figure B.5.6.a Sample Page for Edmodo**

### **Google classroom:**

Google Classroom is created by the subject handling faculty for all courses. Head of the department, Academic Coordinator and the Exam Cell coordinator are added as teachers for monitoring and conducting CAT exams. All the students are asked to join the Google Classroom through code shared to them. Syllabus, Reference materials, Notes, Homework problems, Assignments and Online Tests are posted in the Google Classrooms. The students are asked to submit their works through the same platform which helps to enhance paperless documents improving the welfare of the environment. Assignments and Online tests are assessed through Google Classroom itself and posted to students. This links all the Google facilities (Gmail, Drive, Docs, Forms, Sheets, etc) which enable ease of communication among the students and the faculty members. Continuous Assessment Tests are conducted through Google Forms scheduled through Google Classrooms. As per the guidelines from Anna University, End semester lab exams for II, III and IV year students for 2020-21 odd semester is conducted through Google Classroom and Google meet.



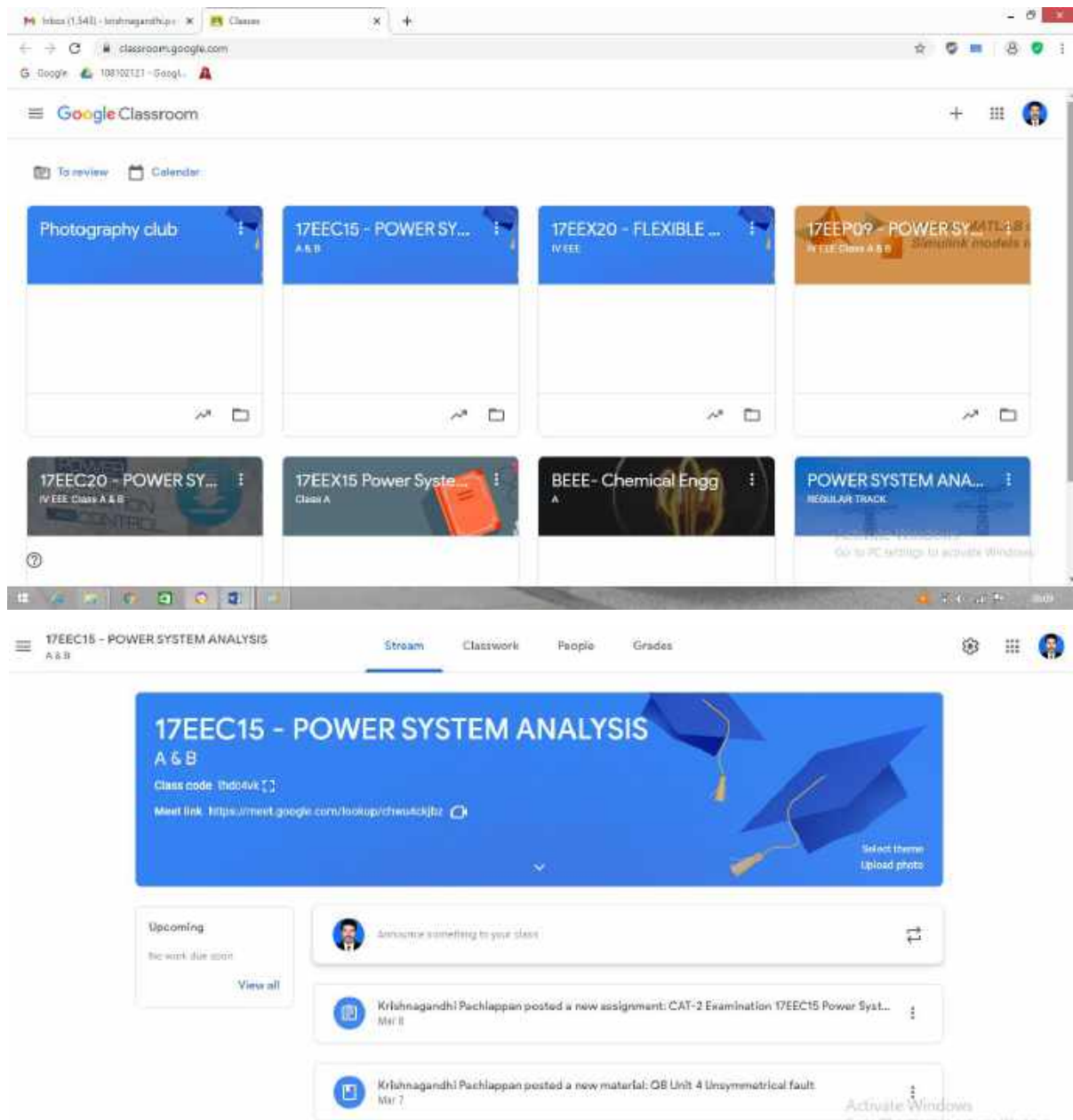


Figure B.5.6.b Sample page for Google Classroom – Theory subject



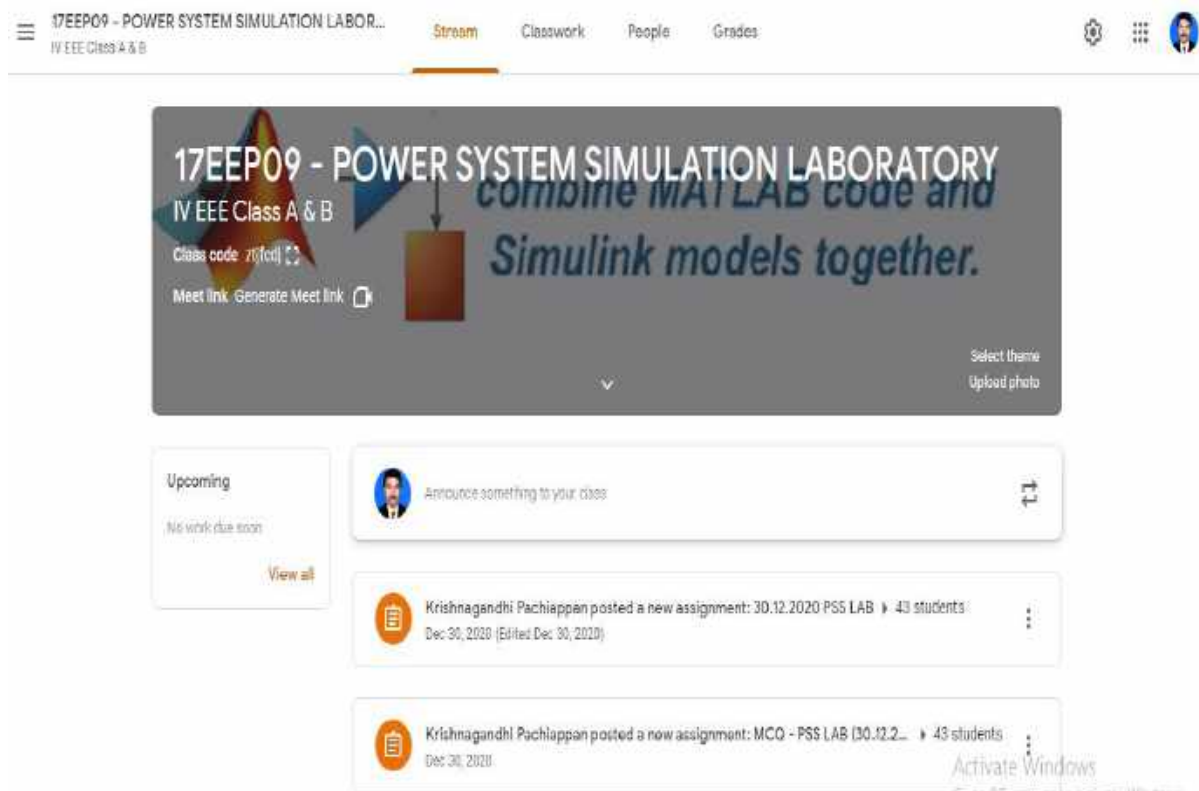


Figure B.5.6.c Sample page for Google Classroom – Laboratory subject

### ZOOM:

Zoom is an online platform which came into practice for conducting meeting for faculty members at the beginning of pandemic period when we just stepped into online mode. It is extended for conducting classes which consumes low battery and less network usage even for video classes. Zoom has various provisions such as white board, editor on a shared document which helps the faculty members convenient to handle classes and make the students to understand the concepts better by bringing live classes in picture. This is mainly helpful for Analytical papers.



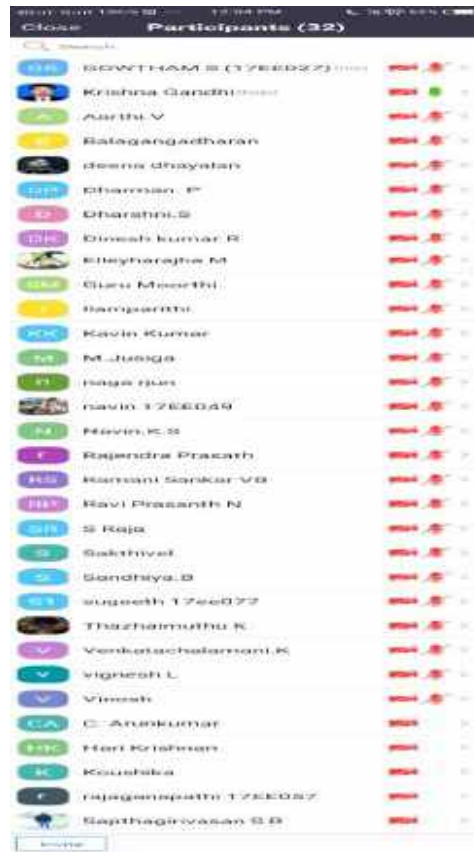


Figure B.5.6.d Online class using Zoom app

#### Power point presentations:

- Power point presentation is widely used in the teaching-learning process, and is facilitated by the fact that all our classrooms are well-equipped with high quality projectors ready for use any time.

#### E-mail correspondence with students:

- Faculty frequently engages in e-mail correspondence with the students to share college related information. This significantly boosts the out-of-class learning experience of students



**b) Innovations in instructional delivery and methods:**

- Along with chalk and talk, the faculty members teaching analytical and theoretical subjects like Semiconductor devices, Power Electronics, Microcontroller etc., by prepared working models which can be carried into classroom and demonstrate the working in an effective manner to the students.
- Concept oriented activities are planned in the classroom with the participation of the students.

**Website:**

- Faculty member created a website and uploaded their technical notes to share the knowledge among the students.
- Website details: Faculty Name: Mr.P.Krishnagandhi, AP/EEE Subjects: High voltage engineering, Flexible AC Transmission Systems (FACTS).
- Website link: [www.krishna1.webnode.com](http://www.krishna1.webnode.com)

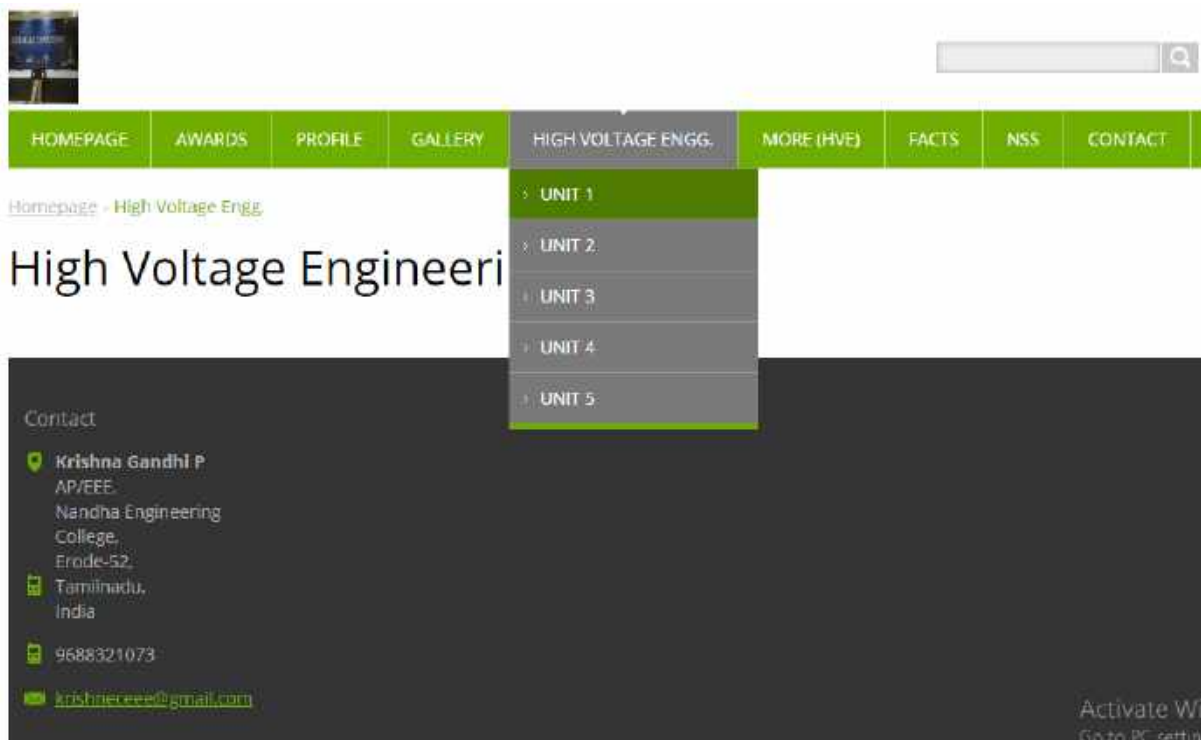


Figure B.5.6.e Subject notes are uploaded to own website



**Content beyond Syllabus:**

- To meet our current industry demand and fill the gap
- It makes students curious and encourages them to take more interest in the topic and enhance their learning process
- Students are encouraged to work with new ideas and motivated to focus on current technological trends to do their Seminars and Projects

**NPTEL Lectures:**

- To promote self-learning and share knowledge among students
- To enhance the quality of engineering education, on tip compatibility and resources for beyond curriculum

**Interdisciplinary Lectures:**

To make students aware of latest relevant technologies in different engineering fields.

**Project Lab:**

The Project Laboratory provides a platform for the students to develop their innovative ideas and transform them into projects. This lab provides an environment for students to develop Project Based Learning (PBL) projects and final year main projects.

Faculty: Mr.P.Krishna Gandhi

Designation: Assistant Professor

Department: Electrical and Electronics Engineering





**Figure B.5.6.f Interaction session about the Product Development**



**Figure B.5.6.g Preparation of Projects and Exhibit in Innovation Day/ NEC**



**Figure B.5.6.h AICTE-SoUL Challenge Winner, AICTE, New Delhi**

**Classroom quiz sessions:**

- Quiz Session helps in creating interest by breaking monotony of regular classes while enhancing the learning experience
- Concepts are shared by interaction among their peers.

**Webinar:**

- Web-based seminar is a presentation, lecture, workshop or seminar that is transmitted over the Web using video conferencing software. Expert lectures through webinars make the students to gain more knowledge





**Figure B.5.6.i Webinar arranged by MHRD on Leadership Talk Series**

#### **Student presentations:**

- In many relevant subjects, students deliver presentations to the rest of their classmates. This significantly boosts student's confidence and their learning experience.

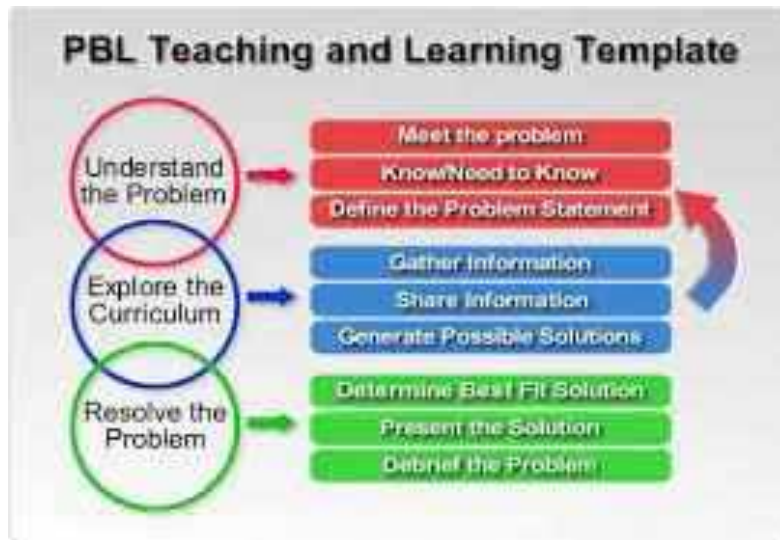
#### **Student Seminars:**

- The overall objective of this activity is to motivate students for self-study and group study.
- The best practices enhance the listening ability
- Students learn to deal with conflicting opinions
- Presentation improves self confidence

#### **Project Based Learning:**

- Project Based Learning is a teaching method in which students gain knowledge and skills by working for an extended period of time to investigate and respond to an authentic, engaging, and complex question, problem, or challenge
- Self-evaluation gives students a sense of accomplishment and further instils responsibility for learning





**Figure B.5.6.j PBL Teaching and Learning Template**

Sample Project: THIRD EYE FOR BLIND USING ARDUINO NANO

Students: PRAVEEN KUMAR.T (15EE067), PRAVEEN.P (15EE068), PRAVIN.J (15EE070), RAGUPATHI.M (15EE073).

**Project Description:**

Third eye for blinds is an innovation which helps the blinds people to navigate with speed and confidence by detecting the nearby obstacles using the help of ultrasonic waves and notify them with buzzer sound or vibration. They only need to wear this device as a band or cloth.



**Figure B.5.6.k Hardware set-up**

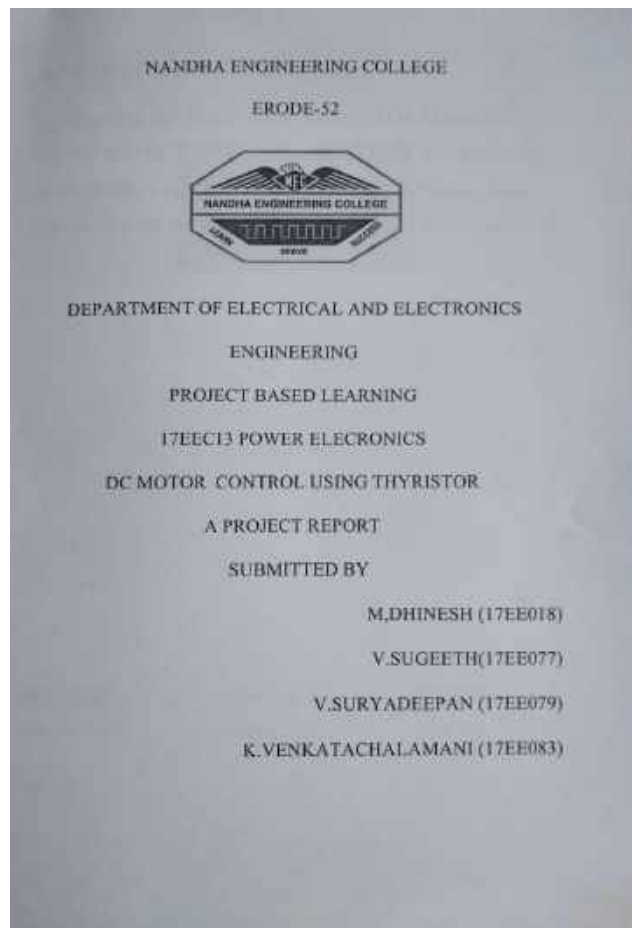


Figure B.5.6.1 Sample PBL Report

**Industrial visit:**

- Industrial visits and site visits are organized in connection with each subject (wherever possible) for the students to have an understanding about the practical Electrical and Electronics engineering situations
- Industrial visits are arranged for the students to give exposure on the industrial environment and work ethics

**In-Plant Training:**

- The students are encouraged to undergo in-plant training during vacations which will improve their skill towards industrial culture

Steps involved:





- Identification of reputed industries
- Getting permission by submitting student bonafide certificate
- Students undergo IPT
- IPT presentation and certificate submission in front of peer committee



**Figure B.5.6.m Sample Copy of IPT Completion Certificate**

#### Professional Bodies:

- The importance of being a member in the professional bodies is explained to the students
- The Professional Societies like Institute of Electrical and Electronics Engineering (IEEE) are active in the Department of Electrical and Electronics Engineering
- Student chapter is being planned and an orientation program was also organized by the department

#### Competitive Exams:



- Soft skill development is enhanced through special courses offered
- Mock placement and mock online tests are being conducted in line with different company perspectives for the students to learn the interview process
- Extensive awareness is created among the students about the openings in different public sector undertakings and the national and state level examinations for Government services like GATE, IES, PSU, and TNPSC., etc

### Yoga:

- Yoga has a diverse range of things that it can offer. It could be said that a primary goal of yoga is to gain balance and control in one's life. To free one from confusion and distress
- To provide a sense of calm that comes from the practice of yogic exercises and the practice of breath control
- Some of the benefits of yoga are Reduces Stress and Anxiety, Improves memory and attention plan, Helps to manage weight, Improves self-control, Boost Immunity and improves physical appearance



Figure B.5.6.n (i) Temple of Consciousness Figure 5.6.n (ii) Yoga Session for Students

### Courses offered

Human Excellence Value Education program is offered to all the B.E. & B.Tech branches as a mandated course. The value education program is designed for three semesters starting from the first semester with personal values and concluding in the fourth semester with Personality and Character Development as follows

- Personal Values in Semester 1
- Interpersonal Values in Semester 2
- Personality and Character Development in Semester 4



**Innovative practices**

- WhatsApp Groups are also formed so that they can quickly reach to the instructor and get their doubts clarified. In case the instructor wants the student to come prepared with some topics, he can post the same before the classes
- Regular meetings among the faculty members arranged to have discussion on recent innovations and how to showcase it to the students

**c) Innovations in Assessment:**

- The feedback from students will enable the faculty to know the effectiveness of his teaching on day to day lecture basis and helps to improve his performance
- Alumni survey are conducted through online
- The Assessment methods are
  - Continuous Assessment I, II, III and corresponding attainment level
- The outcome of this assessment helps to
  - Find out individual faculty periodical pass percentage
  - Trace out slow learners
  - Monitor academic performance of hostel and lateral entry student

NANDHA ENGINEERING COLLEGE, ERODE-52 (AUTONOMOUS)													
III YEAR (ODD SEM:2019-2020)													
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING													
SEMESTER V (BATCH:2017-2021)													
CAT III													
S.No	REG.NO	NAME	TOTAL ARREAR	17EE02	17EE04	17EE02	17EE03	17EE04	17EE02	17EE06	ATTENDANCE	NO. OF SUB FAILED	
				PGM	M&I	CS	FE	GE	DS	NVE			
1	17EE01	AAETHIV	0	AB	AB	AB	36	AB	NA	13	94	5	
2	17EE03	AHMED ASATH A	2	AB	17	26	33	23	25	NA	74	3	
3	17EE04	ARCHANA K R	0	AB	32	39	40	AB	15	NA	95	3	
4	17EE05	ARUN KUMAR A	16	AB	AB	AB	AB	AB	NA	AB	7	8	
5	17EE06	ARUNKUMAR C	0	AB	AB	33	26	AB	NA	26	89	0	
6	17EE07	ARUNPRASATH M	11	19	29	2	28	28	NA	25	91	2	
7	17EE08	ASHEE SP	0	40	50	47	46	49	NA	48	90	0	
8	17EE09	BALAKUNISWARAN C	0	4	4	26	26	33	NA	11	89	3	
9	17EE10	BARATH KUMAR V	0	25	25	40	28	35	NA	28	91	0	
TOTAL NO OF STLDENTS				89	89	89	89	89	89	31	58		
NO OF PRESENT				49	60	66	77	48	26	51			
NO OF ABSENT				40	29	23	12	41	5	7			
NO OF PASS				33	41	60	63	43	15	39			
NO OF FAIL				15	19	6	14	5	11	12			
OVERALL PASS %				67	68	91	82	90	58	76			
OVERALL PASS %				36/87			41%						



PROGRAM CU	TOTAL NO. OF STUDENTS	END SEMESTER UNIVERSITY RESULTS TILL LAST SEMESTER		CAT I		CAT II		CAT III	
		NO OF ALL CLEAR STUDENTS	PASS %	NO OF ALL PASS STUDENTS	PASS %	NO OF ALL PASS STUDENTS	PASS %	NO OF ALL PASS STUDENTS	PASS %
OVERALL CLASS	89	62	70	54	63	46	53	36	41
ATERIAL ENTRY STUDENTS	11	8	73	7	64	4	36	8	73

Figure B.5.6.o Sample format for Continuous Assessment analysis


NANDHA ENGINEERING COLLEGE, PERUNDURAI, ERODE-638052																
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING																
TEST I ANALYSIS																
COURSE NAME & CODE: 15EE117- HIGH VOLTAGE ENGINEERING																
FACULTY NAME: P. KRISHNA GARDHI																
Overall Expected % Level of Attainment: 65																
ROLL NO	TOTAL STRENGTH = 60					ATTENDED					YEAR/SEMESTER : III/VI					TEST SCORE (/50)
	Q1(2)	Q2(2)	Q3(2)	Q4(2)	Q5(2)	Q6(B)	Q6(B)	Q7(A)(6)	Q7(B)(8)	Q7(B)(8)	Q8(A)(8)	Q8(A)(8)	Q8(B)(12)	Q8(B)(4)		
Expected Marks to attainment	1.3	1.3	1.3	1.3	1.3	5.6	5.6	30.4	5.2	5.2	5.2	5.2	7.8	2.4		
15EE001	0	0	0	0	0		6		7	8		8	11		40	
15EE002	2	2	2	2	2		4		7	8				4	0	
15EE003	2	2	2	2	2		7		7	8	8	8			48	
15EE007	1	0	2	2	1		4	12				8			35	
15EE008	1	1	0	2	1		8	8				8			35	
15EE009	1	2	2	2	1	5		12				8			30	
15EE012	1	0	2	0	0		0	8				8			45	
15EE013	2	2	2	2	1	7		14				8			38	
15EE014	2	1	2	0	0		8	16				6			35	
15EE018	1	1	1	0	0		6	8				5			37	
15EE019	0	0	0	0	1		2	10						4	36	
15EE020	1	2	0	0	1		4	15						4	30	
15EE021	1	1	0	2	2		8	8				5			41	
15EE022	0	0	1	0	0		3							4	35	
15EE024	0	0	0	0	0		3			2		8			20	
15EE026	1	2	2	2	2		6			8		8			40	
15EE031	1	2	0	0			5			5				4	35	
15EE033	0	1	0	2	0		4	8						8	43	
15EE034	1	0	0	0	1					8				4	29	
15EE038	1	2	0	0	0		8	12				7			35	
No of students scores upto expected	16	21	21	22	12	14	23	28	4	13	1	32	1	22	0	
% of scoring above the attainment level. Total appeared	27.58	39.66	39.66	37.93	20.69	24.14	39.66	48.28	6.9	22.41	17.2	55.17	17.2	37.93		
Course Outcome attainment level indicator																
Level of attainment	5					4			3			1				
	>90					85-70			65-60			250				
Satisfaction attainment level based	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
Mapping with Attainment level of ATTAINMENT LEVEL OF ALL CO	CO1	CO1	CO2	CO2	CO1	CO1	CO1	CO2	CO1	CO1	CO2	CO2	CO2	CO2		
	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	
	CO1	CO2														
	1.00	1.16														
Overall attainment of Mapping with Attainment of PO	1.080															
	3.4															
	3.4=1.08															

Figure B.5.6.p Sample format for Attainment level Calculation



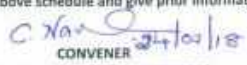
**Class Committee Meeting:**


- Three class committee meetings are arranged with the class representatives in each semester in the presence of Academic coordinator and the chairperson where the students can discuss openly about any issues in any one of the course
- The feedback about each course is taken after each periodical exam and in case of any issues faced by the students; the same is forwarded to the respective Head of the Department through principal
- This way it is ensured that the students should not face any problems during the semester


**NANDHA ENGINEERING COLLEGE, ERODE – 52**  
 (AUTONOMOUS)  
**CLASS COMMITTEE MONITORING BOARD**  
 Centralized Schedule for Class Committee Meeting (CCM) except First year Classes  
 Academic Year 2018-19 ODD Semester


Days	Dates	Time Slot	Venue 1: Block-5, Ground Floor - CIVIL LAB					Venue 2: Block-5, Ground Floor - MBA LAB		
			II Civil	III Civil	IV CIVIL A	IV CIVIL B	***	II E&I	III E&I	IV E&I
Day 1	M1: 01.08.18 M2: 04.09.18 M3: 03.10.18	12.40PM to 01.00 PM	II Civil	III Civil	IV CIVIL A	IV CIVIL B	***	II E&I	III E&I	IV E&I
		01.00 PM to 1.20 PM	II ECE A&B	III ECE A&B	IV ECE A	IV ECE B	***	II MBA	II AGRI	II CHEMICAL
Day 2	M1: 02.08.18 M2: 05.09.18 M3: 04.10.18	12.40PM to 01.00 PM	II CSE A & B	III CSE A & B	IV CSE A	IV CSE B	***	***	***	***
		01.00 PM to 1.20 PM	II IT	III IT	IV IT	III MCA	***	***	***	***
Day 3	M1: 03.08.18 M2: 06.09.18 M3: 05.10.18	12.40PM to 01.00 PM	II Mech A, B & C	III Mech A, B & C	IV Mech A	IV Mech B	IV Mech C	***	***	***
		01.00 PM to 1.20 PM	II EEE A & B	III EEE	IV EEE A	IV EEE B	***	***	***	***

Note: Chairpersons are instructed to follow the schedule strictly and avoid alterations. In unavoidable circumstance make use of the free slot in above schedule and give prior information to us.


  
 CONVENER  
 C.NAVAMANI AP/MCA 9443719386

  
 PRINCIPAL

**Figure B.5.6.q Centralized schedule for class committee meeting except first year**

  
**NANDHA ENGINEERING COLLEGE, ERODE – 52**  
 (AUTONOMOUS)  
**CLASS COMMITTEE MONITORING BOARD**  
 Centralized Schedule for Class Committee Meeting (CCM) First year Classes  
 Academic Year 2018-19 ODD Semester

Day	Dates	Time Slot	Venue 1: CHEMISTRY LAB				Venue 2: PHYSICS LAB			Venue 3: MBA, MCA LAB
Day 1	M1: 05.09.18 M2: 05.10.18 M3: 05.11.18	12.25PM to 12.45 PM	I CSE A	I CSE B	I EEE A	I EEE B	I AGRI	I CHEMICAL	I BIOMEDICAL	I MBA [MBA LAB]
		12.45 PM to 1.00 PM	I MECH A	I MECH B	I MECH C	I IT	I ECE A	I ECE B	I CIVIL	II MCA [MCA LAB]

  
**CONVENER**  
 C.NAYAMANI AP/MCA 9443719386



  
**PRINCIPAL**

Figure B.5.6.r Centralized schedule for class committee meeting except first year

  
**NANDHA ENGINEERING COLLEGE, ERODE – 52**  
 (Autonomous)  
**MINUTES OF CLASS COMMITTEE MEETING**

Class/ Dept. of students: III EEE      Date: 01-08-2019  
 Meeting Location/ Time: CIVIL Lab, Block-5, Ground Floor, 12.40 PM      CCM: 1  
 The following points are discussed.

**Academic Issues:**

Sl. No.	Point/ Subject	Theory						Class Room L		
		1	2	3	4	5	6	1	2	3
a)	Partion Completed as per lesson plan									
b)	Black Board Management								NA	
c)	Clarification of doubts									
d)	Perception about the Syllabus								NA	
e)	Taking Seminar								NA	
f)	Any other Academic Issue									

Page 1

**General Issues:**

Sl. No.	Area	Issue
a)	Office	
b)	Reception	
c)	Carh Counter	
d)	Canteen	
e)	Transport	***Req. for report issue, mention the Bar No.***
f)	Hostel	
g)	Class (Electrical & Classing issues)	***Specify Block Name and Class Number.***
i)	Any other	

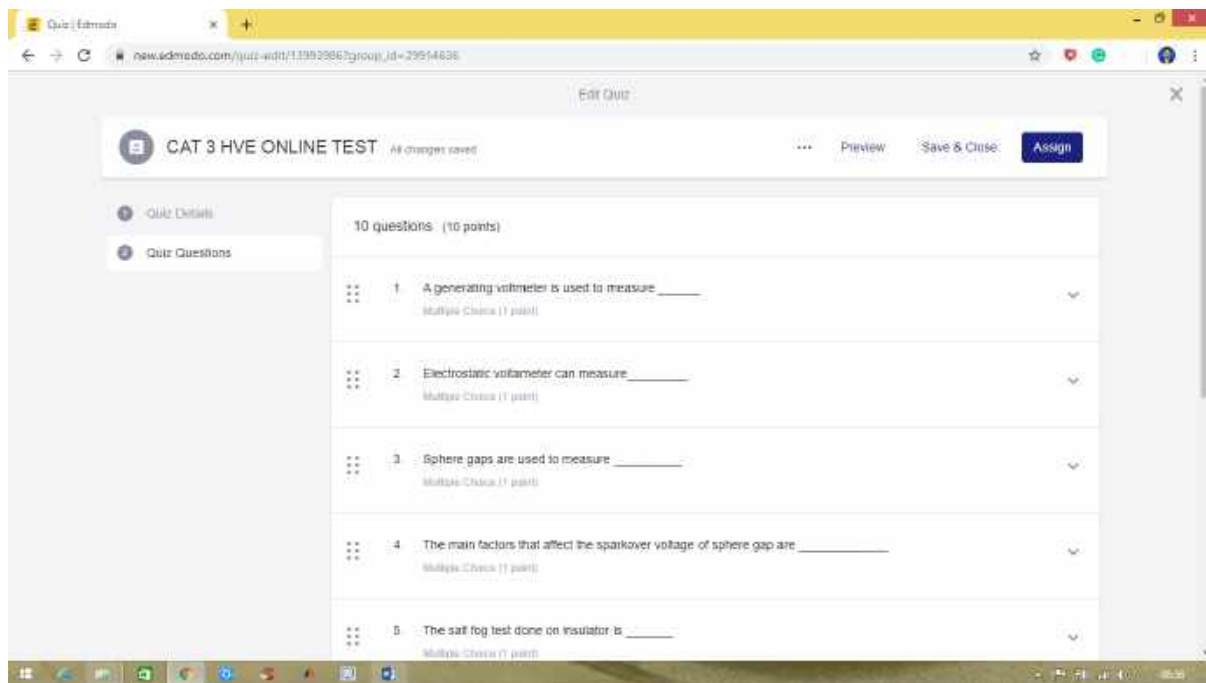
**Chairperson**

Figure B.5.6.s Class committee meeting report format



**d) Innovations in Evaluation:**

- The traditional or innovative methods of teaching are examined and evaluated
- At the end of a class, instructors can ask students to write for a minute or two on one of the following kinds of questions: “What is the most significant thing you’ve learned today?” “What points are still not clear?” or “What question is uppermost in your mind at the end of today’s class?” Responses can help instructors evaluate how well students are learning the material.
- Student responses to the second and third questions also can help instructors select and structure topics for the next class
- The following tasks are managed through Edmodo and Google classroom for quiz evaluation process:
  - Posting the time-bound quiz and manage all the submissions digitally
  - They are free to submit their work even at late evening hours
  - Evaluation of the students’ work are quick
  - Students love to participate in the quiz with a lot of enthusiasm as the privacy is protected
  - Reviewing of the progress of the course by the Academic Auditor and Head of the Department
  - Archiving the completed courses as records for future references
  - Quiz evaluation process through Edmodo and Google classroom

**Figure B.5.6.t Multiple Choice Question sample format**

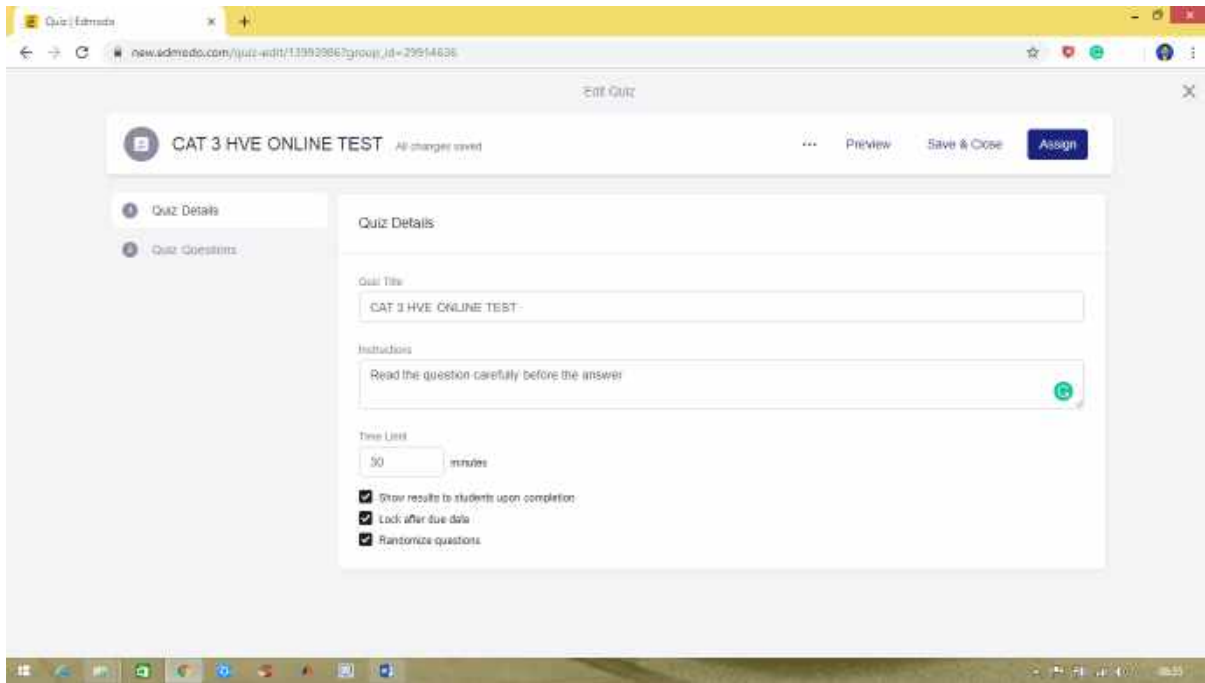


Figure B.5.6.u Online Test Quiz detail

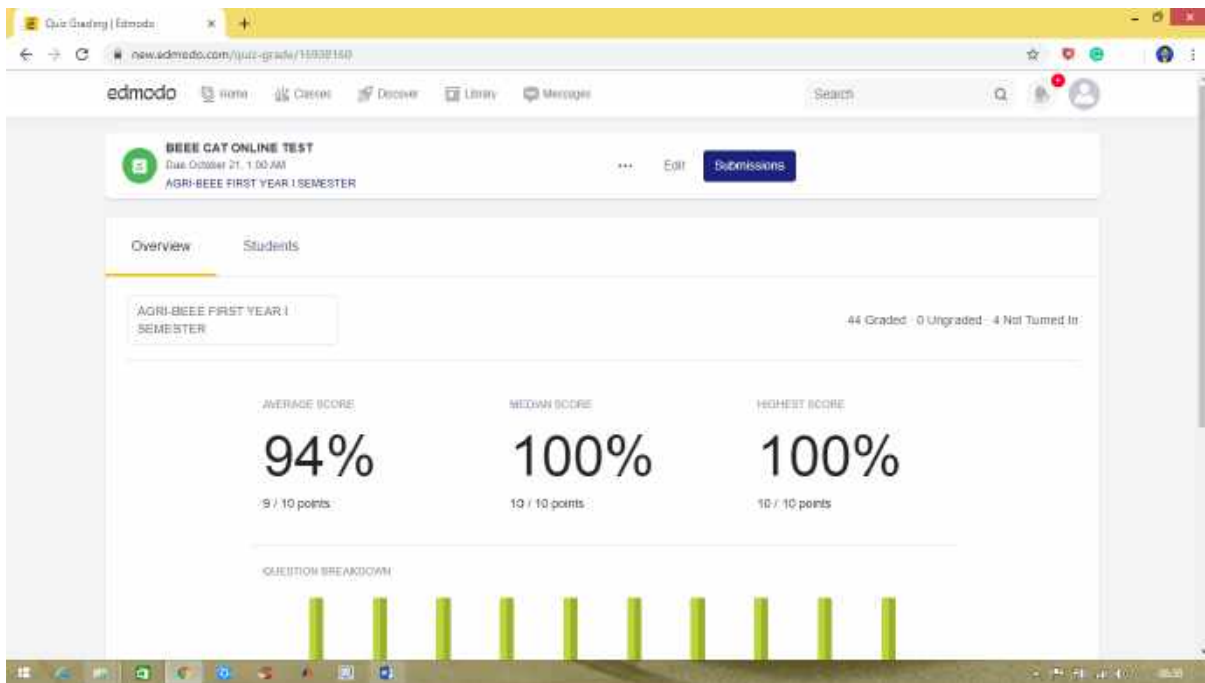


Figure B.5.6.v Online Test Analysis

➤ Quiz and Test evaluation process through Google classroom





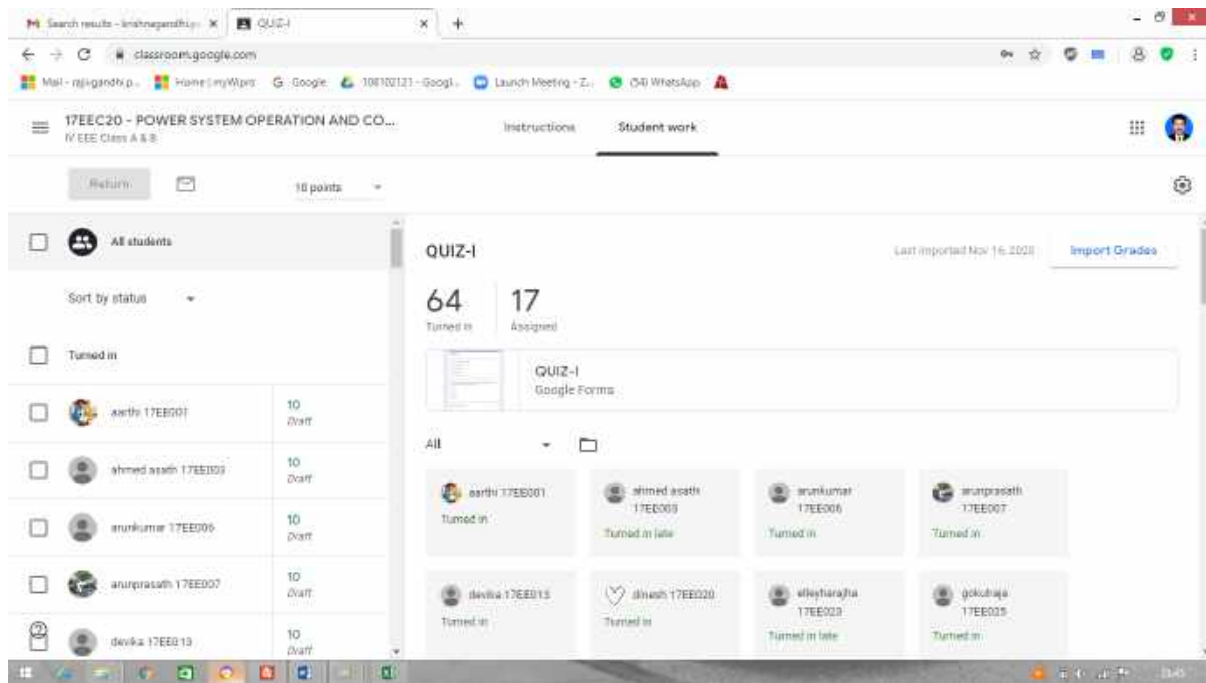


Figure B.5.6.w Online Quiz Test Sample

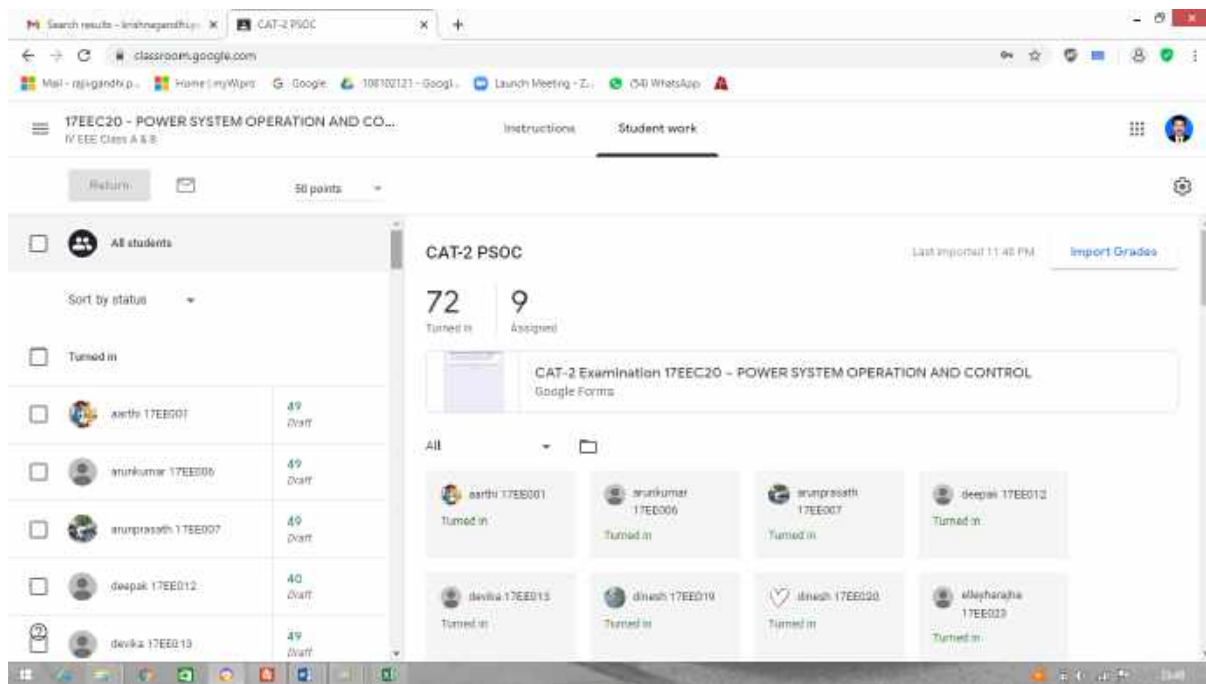


Figure B.5.6.x Online Continuous Assessment Test Sample

**PROCTORED ONLINE EXAM:**

End Semester Theory exams are conducted through proctored online mode, in which an invigilator is allotted 25 students for monitoring. The activities of students are monitored through webcam and the software is



designed such that it generates reports (and warning to students) for any suspicious movements made by the students. Malpractice is booked against a student if the number of warnings exceeds a particular limit. The instructions and the timetable are floated to the students through WhatsApp group, Group mail ids, and meeting (Google meet) conducted by the Academic Coordinator. All the questions are of Multiple Choice Question type with Part A of 1 mark and Part B of 2 marks. The questions are such that it covers the entire syllabus and all the levels of Blooms taxonomy

### YOUTUBE CHANNEL:

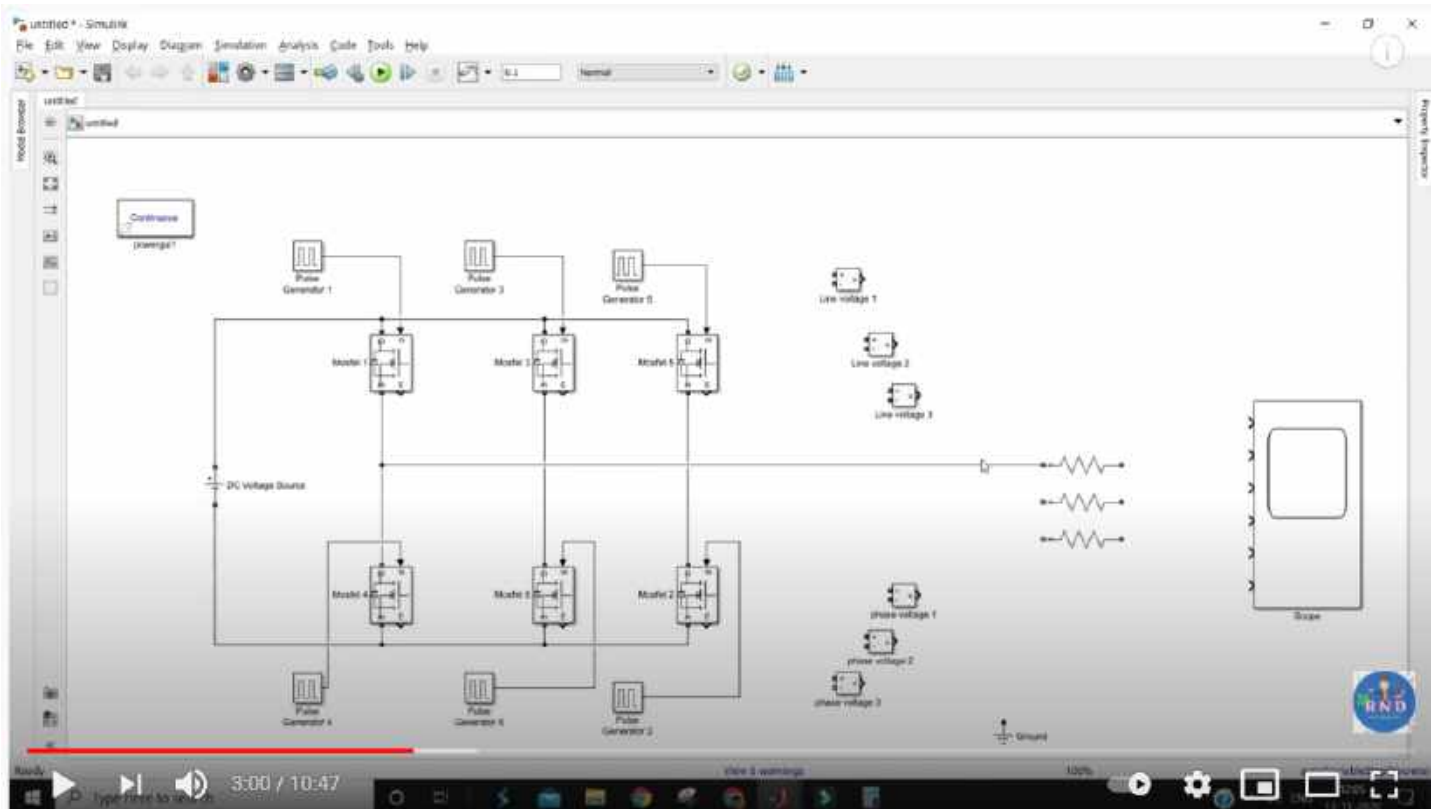
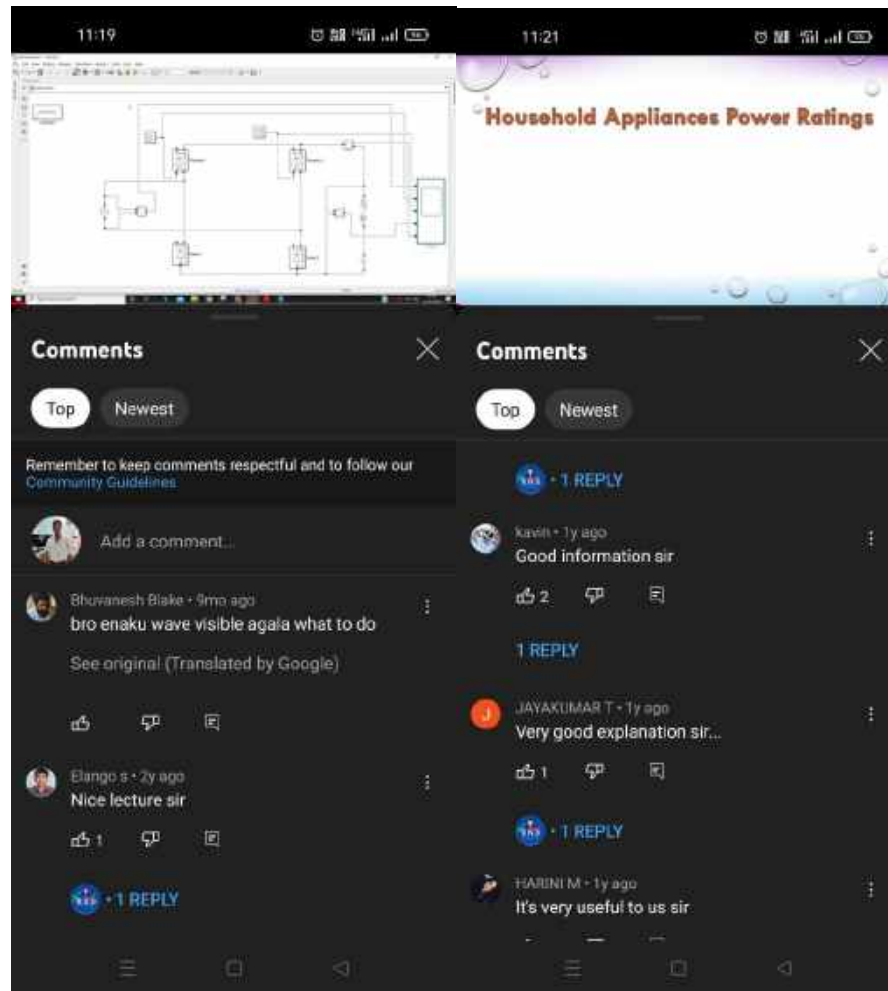


Figure B.5.6.y You Tube Channel Sample

- Link : <https://www.youtube.com/watch?v=k77PV1kzm6g&t=6s>





### 5.7 Faculty as participants in Faculty development/training activities/STTPs

(15)

#### Self Assessment (15)

- A Faculty scores maximum five points for participation
- Participation in 2 to 5 days Faculty/ Faculty development program: 3 Points
- Participation >5 days Faculty/ Faculty development program: 5 points



Table B.5.7 Faculty Development/Training activities

Name of the Faculty	Max. 5 per faculty		
	2021-22	2020-21	2019-20
Dr. Satheesh. A	-	3	-
Dr.Balachandran M	-	-	5
Dr. Ramani G	-	-	3
Dr.Geetha P	5	-	-
Dr.Arthy G	-	3	-
Dr. Jamuna. P	5	5	5
Mr.Prabu M	5	-	3
Mr. Prabhakaran. S	-	-	-
Mr. Ramraj B	3	3	5
Ms.Pratheeba C	5	-	5
Ms.Vijayalakshmi R	3	5	5
Mr.Arunkumar V	5	5	5
Mr.Elango S	3	5	5
Mr.Jayakumar T	5	3	5
Ms. Sathyasree K	5	3	5
Mr. Krishnagandhi P	5	-	5



Mr. Jeyavel S	-	5	-
Ms.Kalaiselvi N	-	-	-
Mr.Asokkumar G	-	-	-
Ms.Manjula M	-	-	-
Ms.Sinduja N	NA	NA	-
Mr.Karthik Prabu B	3	5	5
Mr.Sasi Kumar S	-	5	3
Mr.Sapthika Parthi P	NA	-	5
Mr.Praveen Santhosh Kumar G	NA	-	5
Ms.Mythily C	NA	NA	-
<b>Sum</b>	<b>52</b>	<b>50</b>	<b>74</b>
<b>RF= Number of Faculty required to comply with 20:1 Student-Faculty ratio as per 5.1</b>	<b>18</b>	<b>21</b>	<b>20</b>
<b>Assessment = <math>3 \times (\text{Sum}/0.5 \text{ RF})</math> (Marks limited to 15)</b>	<b>17.33</b>	<b>14.29</b>	<b>22.20</b>
<b>Average assessment over last three years (Marks limited to 15)</b>	<b>17.94</b>		



**5.8 Research and Development (75)****Self Assessment (40)****5.8.1 Academic Research (20)****Self Assessment (20)**

*Academic research includes research paper publications, Ph.D. guidance, and faculty receiving Ph.D. during the assessment period.*

- *Number of quality publications in refereed/SCI Journals, citations, Books/Book Chapters etc.(15)*
- *Ph.D. guided / Ph.D. awarded during the assessment period while working in the institute (5)*

*All relevant details shall be mentioned.*

**Table B.5.8.1a Summary of Journals, Books Reviewed, Book Chapters, Patent Filed**

Description of Publications	Assessment Year			
	2021-2022	2020-2021	2019 - 2020	2018 - 2019
Journal Publications (Scopus Indexed/WOS)	23	30	9	39
Citations	-	5	11	2
Book Chapters/ Books Reviewed	01/00	01/00	-	-
Patents Filed/ Copyright	01/01	02/04	-	-

**Table B.5.8.1b Faculty Citations and H-Index Details**

S.No	Name of the staff	Citations	H-Index
1	Dr. Satheesh. A	57	3
2	Dr. Mohan Kumar GB	3	1
3	Dr. Ramani G	3	1
4	Dr.Geetha P	13	2
5	Dr.Balachandran M	12	2
6	Dr. Jamuna. P	9	2
7	Dr.Arthy G	10	2
8	Mr.Prabu M	7	1



9	Mr. Prabhakaran. S	2	1
10	Mr. Ramraj B	9	2
11	Ms.Pratheeba C	-	-
12	Ms.Vijayalakshmi R	5	1
13	Mr.Arunkumar V	3	1
14	Mr.Elango S	2	1
15	Mr.Jayakumar T	42	5
16	Ms. Sathyasree K	1	1
17	Mr. Krishnagandhi P	14	2
18	Ms.Menakambal S	3	1
19	Mr.Ravichandran V	-	-
20	Mr.Uvaraj P	5	2
21	Karthik Prabu B	-	-
22	Praveen Santhosh Kumar G	3	1
23	Sasi Kumar S	-	-
24	Sapthika Parthi P	-	-



Table B.5.8.1c Details of Publication

Year	Name of the Faculty	Title of the Paper Published	Details of Publication	Index
2021-2022	A. Sathishkumar, T. Rammohan, S. Sathish Kumar, J. Uma, K. Srujan Raju, Aarti Sangwan, M. Sivachitra and M. Prabu	QoS Constrained Network Coding Technique to Data Transmission Using IoT	Computer Systems Science & Engineering DOI: 10.32604/csse.2022.021694	SCI Scopus
	S. Thylashri, N. Manikandaprabu, T. Jayakumar, S. Vijayachitra, G. Kiruthiga	Effective Techniques for Pedestrian Detection in Smart Autonomous Vehicles	Webology DOI:10.14704/WEB/V18SI05/WEB18298	Scopus
2020-2021	P. Jamuna, G. Ramani, and K. P. Suresh	Performance Validation of PV System Incorporated ZSI-Dynamic Voltage Restorer for Long-Lasting Power Quality Improvement	Journal of Testing and Evaluation DOI: 10.1520/JTE20200005	Annexture-I Scopus
	N Ashokkumar, Krishnagandhi P, B Kannan, Y David Solomon Raju	Smart farming field observation Using Embedded Systems	International Journal of Electrical Engineering and Technology Vol. 11 , Issue No. 4, ISSN: 0976-6553, 2020	Scopus
	J. Indirapriyadharshini , T. Sivaranjani , B. Karthikprabu , G. Saktheeswaran , R.	Design and fabrication of automated oil spraying machine for baking system	Materials Today: Proceedings ISSN: 2214-7853, 2021	Scopus





	Prince Paul			
	S.Natarajan,R.Geetha,M. Sugumaran,T.Jayakumar, K.C.Ramya,G.Balasubramanian,G.Sivaramakrishnan	Assessment of Z-Source Based 7 level cascaded Multi Level Inverter for Induction Motor Control using Embedded Technique	Turkish Journal of Computer and Mathematics Education Vol. 12 , Issue No. 11, ISSN 1309-4653,2021.	Scopus
2019-2020	Arun kumar V, Elango S, Prabu M, Ramraj B	Transient Overvoltages And Its Prevention And Protection	International Journal of Engineering Trends and Technology DOI: 10.14445/22315381/IJETT-V68I3P205S	Scopus
	Vijayalakshmi R, Pratheeba C, Sathyasree K, Ravichandran V	Challenges, Issues And Solution For Hybrid Solar PV And Wind Power Generation With Off-Grid Integration	International Journal of Engineering Trends and Technology DOI: 10.14445/22315381/IJETT-V68I3P204S	Scopus
	T. Jayakumar, G. Preethi, V. Sree Sureya, D. Lavanya	Efficient Direct Torque Control Of Induction Motor Based On Fuzzy Logic	Journal of Critical Reviews DOI: 10.31838/jcr.06.06.71	Scopus
	T. Jayakumar & Albert Alexander Stonier	Implementation of solar PV system unified ZSI based dynamic voltage restorer with U-SOGI control scheme for power quality improvement	Journal for Control, Measurement, Electronics, Computing and Communications DOI: 10.1080/00051144.2020.1760591	Annexture-I Scopus
	S.Jagadeesan, C.Mani, R.Navin Kumar, S.Prabhakaran	High Level Secure Messages Based On Steganography And Cryptography	International Journal of Engineering Trends and Technology DOI: 10.14445/22315381/IJETT-V68I2P220S	Scopus



	Maheswari Chennippan, Priyanka E. Bhaskaran, Ibrahim Sherrif K. Adhulrasheed, Thangavel Subramaniam, Ramani Govindasamy	Vibration Signals Based Bearing Defects Identification Through Online Monitoring Using LABVIEW	Journal Europeendes systems Automatistes DOI: 10.18280/jesa.530204	Scopus
	N.Subha Lakshmi, Arunkumar V, Vijayalakshmi R, Vidhya H	Investigations on Brushless DC Motor Drive to Control Speed Using Single Input Fuzzy Logic and PID Controller	Test Engineering &Management Vol.83, ISSN:0193-4120, 2020	Scopus
	Logeswaran T, Elango S,Ramraj B, Prabhu M	A Robotic Arm based Prosthetic Food Feeding Mechanisms for Upper Limb Amputees	International Journal of Advanced Science and Technology Vol. 29, No.7, ISSN: 2005-4238,2020	Scopus
	G.Praveen Santhoshkumar, B.Karthikprabu, S.Sasikumar	Intelligent Circuit Breaker To Prevent The Transformer From Lightening By Using Solid State Devices For Opto Coupler	International Journal of Engineering Trends and Technology DOI: 10.14445/22315381/IJETT-V68I3P207S	Scopus
2018- 2019	Dr.G. Ramani, P. Jamuna, P. Ramya, A. Megala	Implementation of Dictionary and Bitmask based Fixed and Variable Frequency Algorithm for at Mega Processor	Journal of Advanced Research in Dynamical and Control Systems Vol. 11, No. 2, ISSN: 1943-023X,2019	Scopus



**TABLE B.5.8.1d List of Books Reviewed/Book Chapters**

S.No	Name of the staff	Books Reviewed /Book Chapters
1	Mr.T.Jayakumar	Optimization Methods for Electric Power Systems(Chapters Published)
2	Dr.P.Jamuna	Challenges and Opportunities for Predictive Maintenance of Solar Plants(Chapters Published)

**TABLE B.5.8.1e List of Patent Filed/Copyright**

S.No	Name of the staff	Academic Year	Patent Number/Copyright Number	Title of the Patent/ Copyright
1	Mr.Jayakumar T	2020-2021	202041049792	IoT Based Efficient Water Resources Forecasting, Monitoring And Management System
2	Mr. Krishnagandhi P	2020-2021	202041039582	Multi Functional Garbage Container And Method Of Segregator Thereof
3	Dr.G.Ramani Dr.P.Jamuna Mr.M.Prabu	2020-2021	L-104053/2021	Electric Drives And Control MCQ
4	Dr.P.Jamuna Dr.G.Ramani Mr.B.Ramraj	2020-2021	L-104147/2021	Electrical Machines-I Questionnaire
5	Mrs.K.Sathyasree Mr.V.Arunkumar	2020-2021	L-104541/2021	Electronic Devices And



				Circuits MCQ
6	Mrs.R. Vijayalakshmi Mr.S.Elango Dr.M.Balachandran	2020-2021	L-104228/2021	Electrical Machines II - Question Bank
7	Mr.P.Krishnagandhi	2021-2022	202141047305	Artificial Intelligence supported Wearable Pregnancy Period Tracking System
8	Mr.B.Ramraj Ms.C.Pratheeba	2021-2022	L-109154/2021	8085-Microprocessor and 8051-Microcontroller Question Bank

Table B.5.8.1f Ph. D. Completed Details in Nandha Engineering College

S.No	Name of the Candidate	Faculty under which the research is registered	Name of the University	Name of the Guide with Complete Address	Academic Year
1	Dr.G.B.Mohankumar 71130431022	Electrical Engineering	Anna University	Dr.S.Manoharan Prof /EEE,Karpagam College of Engineering , Myleripalayam Village, Othakkal Mandapam, Coimbatore,Tamil Nadu - 641032	2017-2018



2	Dr.Geetha P	Electrical Engineering	Karpagam University	Dr.S.Ravi, Professor/EEE,Selvam College of Technology,Namakkal	2017-2018
3	Dr.G.Ramani 11110432024	Electrical Engineering	Anna University	Dr.K.Geetha, Dean-R&D, JCT College of Engineering and Technology, Pichanur Road, Off, NH 47, Pichanur, Coimbatore, Tamil Nadu -641105	2017-2018
4	Dr.Arthy G 71110532002	Information and Communication Engineering	Anna University	Dr.C.N.Marimuthu, Professor&Dean(ECE), Nandha Engineering college,Erode-52	2019-2020
5	Dr. Jamuna. P 1324369159	Electrical Engineering	Anna University	Dr.S.Ramesh Professor & Head / EEE K.S.R. College of Engineering Tiruchengode - 637 215	2019-2020



6.	Dr.Jayakumar T 1514369708	Electrical Engineering	Anna University	Dr.AlbertAlexander S Associate Professor, Department of EEE, Kongu Engineering College, Perundurai, Erode - 638052	2021-2022
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Table B.5.8.1g Internal Ph.D. Pursuing

S.No	Name of the Scholar with Register Number	Year of Admission	Faculty under which the research is registered	Name of the University	Name of the Guide with Complete Address	College under which course Work is registered	Provisional registration confirmation
1.	Mr. P.Krishna Gandhi 1613369234	2016	Electrical Engineering	Anna University	Dr.AlbertAlexander S Associate Professor, Department of EEE, Kongu Engineering College, Perundurai, Erode - 638052	Nandha Engineering college	Provisional registration confirmed



2	Mr.S.Elango 22144691315	2022	Information and Communicat ion Engineering	Anna University	Dr.C.Vijayakum ar Professor/EEE K.S.R. College of Engineering Tiruchengode, Namakkal- 637215	Nandha Engineerin g college	Doing Course Work
3	Ms.C.Pratheeba 22243691153	2022	Electrical Engineering	Anna University	Dr.P.Sukumar ASP/ECE Nandha Engineering College,Erode- 638052	Nandha Engineerin g college	Course Work completed
4	Mr.V.Ravichandran 1613369234	2022	Electrical Engineering	Anna University	Dr.P.Sukumar ASP/ECE Nandha Engineering College,Erode- 638052	Nandha Engineerin g college	Course Work completed

**5.8.2 Sponsored Research****(20)****Self Assessment (0)**

Funded research from outside:

(Provide a list with Project Title, Funding Agency, Amount and Duration) Funding Amount (Cumulative during CAYm1, CAYm2 and CAYm3):

Amount > 50 Lakh – 20 Marks,

Amount > 40 and ≤ 50 Lakh – 15



Marks, Amount > 30 and ≤ 40 Lakh –  
 10 Marks, Amount ≥ 15 and ≤ 30 Lakh  
 – 5 Marks, Amount < 15 Lakh – 0  
 Marks

Table B.5.8.2 Grants Received

S.No.	ACADEMIC YEAR	NAME OF THE SCHEME	TITLE	AMOUNT SANCTIONED (RS.)	SANCTIONED DATE & FILE NO.	U/C STATUS
1	2018-2019	CSIR	Awareness Programme on E-Waste handling and recycling techniques	20,000	SYM/9698/18-HRD, Dated; 13-07-2018	UC has submitted
2	2018-2019	CSIR	Challenges issue & Possible Solutions in Future Smart Grid Integration of Renewal Energy System.	30,000	SYM/9954/18-HRD, Dated; 04-12-2018.	UC has submitted
3	2021-2022	CSIR	Emerging Advancements in Battery Technology for Future Electric Vehicle Applications	20,000	SYM/10687/21-HRD, Dated; 25-11-2021.	UC has submitted
<b>TOTAL: Rs. 70,000</b>						

## 5.8.3 Development activities

(15)

Self Assessment (15)

Provide details:

- Product Development
- Research laboratories
- Instructional materials
- Working models/charts/monograms etc.






## Product Development

Mr.Krishnagandhi P/AP - MSME Sanctioned 14.75 lacs for product development title “Smart Solar Waste Segregation and Management using Internet of Things” [File No:17(2)/MSME Innovative/PMAC/2021-22]


Students are encouraged to do in-house projects that lead to product development. The details of the products developed by the students are given in the table.


**TABLE B.5.8.3a List of Products Developed**

Academic Year 2018-19			
S.No	Name of the Product	Name of the students	Image
1	Water Level Controller	Anish R Angamuthu S Dinesh Kumar R	
<p><b>Product Description:</b> These days most water is wasted with human carelessness and also laziness to do some work. To control the water level in a tank by eliminating the floating mechanism. Since the floating mechanism is expensive many people could not afford it so, this float less design would be cheaper and efficient.</p>			
<p><b>Applications:</b> It can be fixed to all the overhead water tanks. This system can even be changed for the three phase water pumps.</p>			

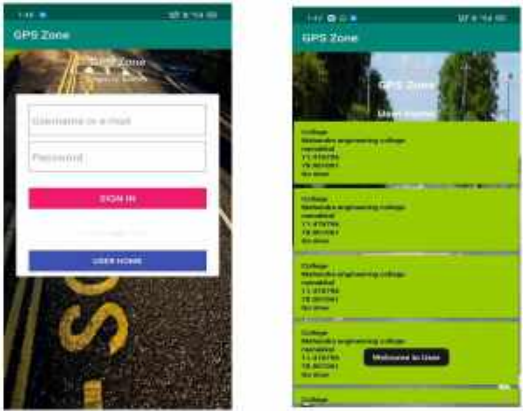
Academic Year 2019-20			
S.No	Name of the Product	Name of the students	Image




1	Driver Sleep Alert	Divya Rani R Premnath S	
<p><b>Product Description:</b> Accidents due to driver drowsiness can be prevented using eye blink sensors. The driver is supposed to wear the eye blink sensor frame throughout the course of driving and blink has to be for a couple of seconds to detect drowsiness. Any random changes in steering movement leads to reduction in wheel speed. The threshold of the vibration sensor can be varied and accordingly action can be taken. The outcome is that vibrator attached to eye blink sensor frame vibrates.</p>			
<p><b>Applications:</b> Vehicle drivers</p>			

S.No	Name of the Product	Name of the students	Image
2	Women Safety App	Divya Rani R Premnath S Manojkumar Poomathi Harini M Mohansundar	
<p><b>Product Description:</b> The heinous incident that outraged the entire nation have waken us to go for the safety issues and so a host of new apps have been developed to provide security systems to women via their phones. An Android Application for the Safety of Women and this app can be activated this app by a single click, whenever need arises. A single click on this app identifies the location of place through GPS and sends a message comprising this location URL to the registered contacts and also call on the first registered contact to help the one in dangerous situations. The unique feature of this application is to send the message to the registered contacts continuously for every five minutes until the “stop button” in the application is clicked. Continuous location tracking information via SMS helps to find the location of the victim quickly and can be rescued safely.</p>			
<p><b>Applications:</b> Handheld safety for women</p>			

## Academic Year 2020-21

S.No	Name of the Product	Name of the students	Image
1	Smart Speed Alert for Vehicles	Premnath S Divya Rani R	
<p><b>Product Description:</b>            Nowadays people are not without vehicles (cars), roads are always seen busy. Thus creating more traffic (crises) On roads. It causes major accidents in public places like school, hospital. So breaking this condition we need some alert. At the same time this alert like user free and easy buying for all status people. Then only we make accident free road. Our ALERT SYSTEM FOR DRIVER APP (ASD) is user free and is gives alert, when you reach public zone. This alert comes out two ways, one is displayed and another one is voice output.</p>			
<p><b>Applications:</b> Vehicles</p>			

## Academic Year 2021-22

S.No	Name of the Product	Name of the students	Image
1	Smart Blind Stick	Maduppranesh S P Selvakumar K Pranav Rakul R R Mohana Sundar L	



<p><b>Product Description:</b>  In stick, three ultrasonic sensors are positioned in the front, right, and left positions to detect obstacles using the algorithm. It can detect obstacles of various shapes and sizes. After processing the input from these sensors, the type of obstacle is determined and the appropriate pre-recorded audio response or vibration pattern is played to the user using the speaker module or vibration motor. The IR sensor detects the stairs and small obstacles on the ground. The moisture sensor gives a Boolean output after scanning the surface using which the algorithm raises a vibratory alert to the user. It is fixed at the top end of the stick. On detecting a button press from the user the GPS module is polled for the user's coordinates. Then the link is pretended with an appropriate message such as "I am in danger please find me here" and this processed message is sent to the User's caretakers using the GSM module. Also, the algorithm keeps polling the RF receiver mounted on the stick for RF signal, from an RF transmitter mounted on a simple remote controller. This remote controller has a simple push-button along with the RF transmitter. When pressed can be detected by the RF receiver on the blind stick and raises a buzzer alert for a few seconds. It helps to where the user locates now.</p>
<p><b>Applications:</b> Visually Impaired Person</p>

#### 5.8.4 Consultancy from industry

(20)

Self-Assessment (5)

Funding Amount: Amount >10 Lacs – 20 Marks,  
Amount <10 and > 8 Lakh – 15 Marks,  
Amount < 8 and > 6 Lakh – 10 Marks,  
Amount < 6 and > 4 Lakh – 5 Marks,  
Amount < 4 and > 2 Lakh – 2 Marks,  
Amount < 2 Lakh – 0 Mark

**TABLE B.5.8.4 Details of Consultancy**

Academic Year 2021-2022					
S.No	Name of the Companies	Nature of Work	Duration	Consultancy Fee in Rs	Faculty involved in the work
1	Rooth Food Products	1 KW Solar System	2 month	1,18,000	Dr.G.Ramani Mr.S.Prabhakaran Dr.P.Jamuna
2	Godhood Developers Pvt Ltd	Surveillance Monitoring System	1 month	10,000	Dr.G.Ramani
3	J.K Constructions	Surveillance Monitoring System	1 month	17,500	Dr.G.Ramani
4	SSR Constructions	Surveillance Monitoring System	1 month	20,000	Mr.M.Prabu
<b>Total Amount:</b>				<b>1,65,500</b>	



<b>Academic Year 2020-2021</b>					
<b>S.No</b>	<b>Name of the Companies</b>	<b>Nature of Work</b>	<b>Duration</b>	<b>Consultancy Fee in Rs</b>	<b>Faculty involved in the work</b>
1	K.S Constructions	Surveillance Monitoring System	1 month	9,000	Dr.G.Ramani
2	K.S Constructions	Automatic Water Controller System	1 month	20,000	Dr.G.Ramani
3	Thangamani Constructions	Surveillance Monitoring System	1 month	5,500	Mr.M.Prabu
4	Trivena Infra Projects	Surveillance Monitoring System	1 month	11,100	Mr.P.Krishnagandhi
5	Pavithra Constructions	Automatic Water Controller System	1 month	11,500	Mr.V.Arunkumar
6	Pavithra Constructions	Solar lighting system	2 months	17,550	Mr.P.Krishnagandhi
7	Pavithra Constructions	Surveillance Monitoring System	1 month	16,000	Mr.M.Prabu
8	Collective constructions,JV Engineering Associates, Foflex,Mathappan Constructions	Surveillance Monitoring System	2 months	24,300	Dr.G.Ramani
9	Eco chimneys	Surveillance Monitoring System	1 month	9,500	Mr.M.Prabu
10	Priya Engineering Projects Pvt Ltd	Surveillance Monitoring System	1 month	10,500	Mr.V.Arunkumar
<b>Total Amount:</b>				<b>1,34,950</b>	

<b>Academic Year 2019-2020</b>					
<b>S.No</b>	<b>Name of the Companies</b>	<b>Nature of Work</b>	<b>Duration</b>	<b>Consultancy Fee in Rs</b>	<b>Faculty involved in the work</b>
1	Ramco Cements	Electrification work	3 months	6,000	Dr.G.Ramani
2	Mahendra & Mahendra Constructions	Automatic Water Controller System	1 month	3,600	Dr.G.Ramani
3	Mahendra & Mahendra Constructions	Surveillance Monitoring System	1 month	10,000	Mr.V.Arunkumar
4	Sai Vetri Constructions	Surveillance Monitoring System	2 months	10,000	Mr.P.Krishnagandhi
5	Data field	AC Testing Box Module 2 No	1 month	4,100	Dr.G.Ramani
6	Data field	AC Testing Box Module 2 No and	1 month	2,800	Mr.P.Krishnagandhi



		6P2C Test Box			
7	Data field	AC Testing Box Module 2 No	1 month	2,900	Mr.V.Arunkumar
8	Nellai Murugan Departmental stores	Surveillance Monitoring System	1 month	3,000	Dr.G.Ramani
9	Sri Ganapathy Furniture	Surveillance Monitoring System	1 month	3,000	Mr.V.Arunkumar
10	SVT Tomato Traders	Surveillance Monitoring System	1 month	3,000	Dr.G.Ramani
11	SAS Garments	Automatic Water Controller System	1 month	3,000	Mr.P.Krishnagandhi
12	TSP & Co	Automatic Water Controller System	1 month	3,000	Mr.V.Arunkumar
13	New Maruthi Stationery	Surveillance Monitoring System	1 month	3,000	Dr.G.Ramani
14	R.S.Mani Cycle Mart	Automatic Water Controller System	1 month	2,500	Mr.P.Krishnagandhi
15	Ganapathi Garments	Automatic Water Controller System	1 month	3,000	Mr.V.Arunkumar
16	K.S.Constructions	Solar Street Light	2 months	40,000	Mr.M.Prabu
17	CRV Garments	Automatic Water Controller System	1 month	2,000	Mr.V.Arunkumar
<b>Total Amount:</b>				<b>1,04,900</b>	

<b>Academic Year 2018-2019</b>					
<b>S.No</b>	<b>Name of the Companies</b>	<b>Nature of Work</b>	<b>Duration</b>	<b>Consultancy Fee in Rs</b>	<b>Faculty involved in the work</b>
1	S.S.R Constructions	Solar lighting systems	6 months	46,100	Dr.G.Ramani
2	S.S.R Constructions	Solar lighting systems	6 months	28,200	Mr.P.Krishnagandhi
3	Sri K.S Constructions	Solar lighting systems	6 months	36,750	Mr.M.Prabu
4	K.S Constructions	Surveillance Monitoring System	2 months	10,000	Mr.P.Krishnagandhi
5	Annai Infra Developers Private Ltd	Surveillance Monitoring System	2 months	12,600	Mr.V.Arunkumar
6	S.S.R Constructions	Surveillance Monitoring System	2 months	18,000	Mr.V.Arunkumar
7	Data Field	AC Testing Box 1 No. and Service 10 Nos	1 month	5,000	Mr.V.Arunkumar
8	Data Field	AC Testing Box 1 No. and Service 10 Nos	1 month	3,000	Mr.V.Arunkumar



9	Latest Power Tools	Surveillance Monitoring System	1 month	15,000	Dr.G.Ramani
10	Vikkas Paint	Automatic Water Controller System	1 month	3,000	Mr.M.Prabu
11	Agri Micro Tech	Surveillance Monitoring System	1 month	5,000	Mr.V.Arunkumar
12	Sri Gangai Medical	Surveillance Monitoring System	1 month	4,000	Mr.V.Arunkumar
13	Sri Selvanayagi Hollow Bricks	Automatic Water Controller System	1 month	3,000	Mr.M.Prabu
14	R.K.Mobiles	Surveillance Monitoring System	1 month	3,000	Mr.P.Krishnagandhi
15	Just Dial	Data Entry	1 month	5,000	Mr.P.Krishnagandhi
16	IDBI Federal Life Insurance	Surveillance Monitoring System	1 month	3,000	Dr.G.Ramani
17	Bright Digi World	Surveillance Monitoring System	1 month	5,000	Dr.G.Ramani
18	Just Dial	Data Entry	1 month	3,000	Mr.V.Arunkumar
19	Phd Scholars	Data Entry	1 month	5,000	Mr.M.Prabu
20	Bright Digi World	Surveillance Monitoring System	1 month	3,000	Dr.G.Ramani
21	Data field	Design of LAN-CLT-MODULEX-LAN Cable Testing Module	1 month	18,000	Mr.P.Krishnagandhi
22	TSP Dairy Farm	Surveillance Monitoring System	1 month	3,000	Mr.V.Arunkumar
23	Navata Transport	Surveillance Monitoring System	1 month	4,500	Mr.M.Prabu
24	Sri Udhayam Electronics	Surveillance Monitoring System	1 month	3,000	Mr.V.Arunkumar
25	Foto Studio	Surveillance Monitoring System	1 month	3,000	Mr.M.Prabu
26	Sri Ram Autocare	Automatic Water Controller System	1 month	3,000	Mr.V.Arunkumar
<b>Total Amount:</b>				<b>2,51,150</b>	

### 5.9 Faculty Performance Appraisal and Development System (FPADS)

(10)

#### Self Assessment (9)

The College follows the self- appraisal method to evaluate the performance of faculty members, which is used for improvement. The Performance appraisal report gives quantitative assessment of a



faculty on five Key Result Areas namely

- Academic performance
- Research and Development
- Industry Interface
- Faculty Development
- Student Development

The performance score is calculated for 100 points. Different Performance evaluation (PE) targets are fixed for (1) Deans, Heads, Professors, (2) Associate Professors and (3) Assistant Professors. The faculty from all the departments is given proper orientation with supportive guidelines along with weightages for each parameter. The method of calculation of performance score is also given to the faculty.

A three-step process is conducted for evaluating the actual performance of every faculty based on the guidelines given in the performance evaluation form.

1. Self-Appraisal (Faculty evaluating themselves)
2. Appraisal by Heads/Deans of their department
3. Audit Committee Appraisal (Head/ Deans evaluating the faculty of other Departments)

To ensure uniformity in assessment, duly nominated audit committee conducts the audit and evaluates the point by verifying all the supporting documents shown by the faculty.

The weighted average of the college is calculated based on the following method.

Weighted Average = Sum of Points scored by all faculty/Total No. of Faculty

Bonus Point = Points scored by the faculty – Weighted Average.

The Weighted Average is set as the minimum target level. The faculty members below the minimum target level are advised to attend faculty development programmes inside or outside the college and opportunities are given for their improvement. After the review of the performance





appraisal, the faculty members are awarded with Performance Bonus in the Annual Appraisal Day.



A sample faculty appraisal form is attached for reference.

**Table B.5.9 Performance Evaluation Form**

**NANDHA ENGINEERING COLLEGE (Autonomous), ERODE 638 052**

TAMIL NADU

**Performance Evaluation (PE) Form for Faculty (2019-20)**

Name : Emp.ID :  
 Designation : Dept. :  
 Mobile No. : E mail ID:

Key Result Areas	FUNCTIONAL AREA	PhD, Professor Dean / HoD	> 5 Years / AsP	< 5 Years AP
		<b>Academic Performance</b>	Academic Results	
	Feedback (Principal, Deans / HoD's & Students) (5 points)			
<b>Research &amp; Development</b>	Citations			
	Journal Publications Annexure as per AU, Chennai, Elsevier, UGC prescribed, Scopus Indexed, etc : 5 Points / Paper	__ x 1	__ x 2	__ x 3
	Journal Publications other than Annexure : 2 Points / Paper			
	Paper presented in International Conference @ IITs, NITs & Leading Colleges : 1 paper = 5 points @ Abroad : 1 paper = 10 points	__ x 1	__ x 2	__ x 3
	Consultancy (1 Point / 1000 rupees)			
	D. Research Scholars Guided / Scholar (NEC) : 5 points if viva voce completed			



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	: 3 points if thesis or 2 if synopsis is completed : 1 point if course work is completed : 1 point if registered (can be claimed once but cannot be every year)			
	Grants Applied / Received a) Project b) Seminar / Workshop / FDP c) Students Project Grant (TNSCST, etc.,) d) Other Grants			
	Patents / Copyrights			
<b>Industry Interface</b>	Training attended at Reputed Industries (Min. 2 Days) (5 Points per Training)			
	Faculty providing Training to Industry (5 Points per Training)			
	Faculty as a Member on the Board of Industry (5 Points)	__ x 1	__ x 1.5	__ x 2
	Program organized for Industry @ NEC (10 Points)			
	Journal Publications with Industry (3 Points)			
	Industry collaboration for Community Development / Social Responsibility (1 / Sem) (5 Points)			
	Industry Collaboration for Project (5 Points)			
<b>Faculty Development</b>	Programmes (Workshops / Seminars, etc) attended in IITs, NITs & Leading Colleges (1 Point / Day) If a faculty invited as a resource person (5 points)			
	Awards			
	Online Certification Course @ IITs / NPTEL (5 points)			
	New Life Membership / Fellowship of Professional Bodies (2 Points)			
	One Day Workshop / Seminar / Conference / Training - Organized other than grants received (5 Points)			



<b>Student Development</b>	Product Development and submitted to i club (10 Points)			
	GATE / IES / PSUs (10 Points)			
	Placements / Internships in High Salary / Start-ups > Rs. 10,000/- (3 Points)			
	Higher Studies in IITs, NITs, Abroad, Leading Colleges & Universities (10 Points)			
	Students Achievements if any (Other than Sports)			
	<b>Grand Total</b>			

**Guidelines:*****Academic Results:***

For UG I, II, III Years:

***Theory:***

&lt; 80 = 5 points, 80-84 = 10 points, 85-89 = 15 points, 90-94 = 20 points, &gt;=95= 25 points

***Analytical:***

&lt;75 = 5 points, 75-79 = 10 points, 80-84 = 15 points, 85-89 = 20 points, &gt;=90 = 30 points

***Analytical subjects to be identified by the respective Deans/Heads***

For UG Final Year and PG:

&lt;=85 = 5 points, 86-90 = 10 points, 91-95 = 15 points, 96-100 = 20 points

***No points for <75 for non-analytical and < 70% for Analytical Paper******Citations:*** ----- x 0.1 = ----- points***Publications:*** Cannot claim the points for the same paper (same title) presented in conferences and journals***Consultancy:*** If more than one faculty member are involved than the points will be divided equally

**Grants Applied:**

Faculty Project Grants: 5 points

Seminar / Workshop / Any Grants: 2 points

Students Project Grants: 1 point

**Grants Received:**

Faculty Project Grants: 2 points per lakh (can claim both PI & Co-PI)

Seminar Grants: 5 points (can claim each Co-ordinators)

PMKVY & FDP Grants: 10 Points (can claim each Co-ordinators)

Students Project Grants: 3 Points for Guide

**Patents:**

For every patent applied = 10 Points

Patent Publication = 25 Points

Patent Awarded = 50 Points

**Copyrights:** 5 Points

**Awards (Individual & Department - other than Sports):** Points shall be provided based on reputation, which shall be recommended by the audit committee.

**Students Achievements:** Points shall be provided based on reputation, which shall be recommended by the audit committee.

**Note: Leading Institutions - NIRF Ranked Institutions**

**5.10 Visiting/Adjunct/Emeritus Faculty etc.****(10)****Self Assessment (9)**

Adjunct faculty also includes Industry experts. Provide details of participation and contributions in teaching and learning and /or research by visiting/adjunct/Emeritus faculty



etc. for all the assessment years:

- Provision of visiting/adjunct faculty (1)
- Minimum 50 hours per year interaction with adjunct faculty from industry/retired professors etc. (9)

(Minimum 50 hours interaction in a year will result in 3 marks for that year; 3marks x 3years= 9marks)

**Table B.5.10 a Visiting /Adjunct Faculty Details (2021-2022)**

S.No.	DATE	NAME OF THE EVENT	TITLE	RESOURCE PERSON	HOURS
1	2021-2022	Visiting Faculty	17EEEC15- Power System Analysis	Ms.SUBALAKSHMI D ASSISTANT PROFESSOR	30 Hrs
2	2021-2021	Visiting Faculty	17EEEC12- Control systems	Ms.SUBALAKSHMI D ASSISTANT PROFESSOR	30 Hrs
<b>TOTAL HOURS</b>					<b>60 Hrs</b>

**Table B.5.10 b Visiting /Adjunct Faculty Details (2020-2021)**

S.No.	DATE	NAME OF THE EVENT	TITLE	RESOURCE PERSON	HOURS
1	2020-2021	Visiting Faculty	17EEEC15- Power System Analysis	Ms.SUBALAKSHMI D ASSISTANT PROFESSOR	30 Hrs
2	2020-2021	Visiting Faculty	17EEEC12- Control systems	Ms.SUBALAKSHMI D ASSISTANT PROFESSOR	30 Hrs
<b>TOTAL HOURS</b>					<b>60 Hrs</b>



Table B.5.10 c Visiting /Adjunct Faculty Details (2019-2020)

S.No.	DATE	NAME OF THE EVENT	TITLE	RESOURCE PERSON	HOURS
1	2019-2020	Visiting Faculty	17EEEC15- Power System Analysis	Ms.SUBALAKSHMI D ASSISTANT PROFESSOR	30 Hrs
2	2019-2020	Visiting Faculty	17EEEC12- Control systems	Ms.SUBALAKSHMI D ASSISTANT PROFESSOR	30 Hrs
3	10.08.2019 &11.08.2019	One Credit	17EEI02 & PLC AUTOMATION	Mr.AMUL BABU APPLICATION ENGINEER (SMEC AUTOMATION)	15 Hrs
4	23.09.2019	Work shop	Hands on Training on Converter and Inverter Design	"Mr.M.Parthiban, Managing Director, Logic Mind Technologies, Bangalore." "	6 Hrs
5	08.02.2020 &09.02.2020	One Credit	17EEI03 & SCADA AUTOMATION	Mr.JAGATHEESH PROJECT ENGINEER (AXIS GLOBAL)	15 Hrs
6	07.03.2020	Work shop	Hands on Training on Linear Integrated Circuits	"Mr.JAGATHAGURU MARIMUTHU, Managing Director, Illumien Technologies, Coimbatore."	6 Hrs
<b>TOTAL HOURS</b>					<b>102 Hrs</b>



# **CRITERION 6**

## **FACILITIES AND TECHNICAL SUPPORT**

**Department of Electrical And Electronics Engineering**



<b>CRITERION 6</b>	<b>Facilities and Technical Support</b>	<b>80</b>
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**Self Assessment (80)**

**6.1 Adequate and well equipped laboratories, and technical manpower (40)**

**Self Assessment (40)**

The Department of Electrical and Electronics Engineering owns excellent laboratories which are extensively utilized round the year. These cater to the needs of students, research scholars and faculty members pursuing research in the area of Electrical and Computer Engineering.

The laboratories are well equipped with the current technology, equipment and licensed software packages to enrich the learning experience with the support of Program specific curriculum, which is carefully designed to include the modern technological trends. Each laboratory maintains a stock register detailing the history of the equipment available. Each laboratory operates on a specific schedule which is stated by the corresponding Time Table of the specific semester / branch.

Technical support is provided with the help of laboratory technicians guided by the faculty members. Laboratory technicians provide technical assistance such as trouble shooting of electrical faults and maintenance of equipment. They also help to fabricate and test equipment. They facilitate in smooth conduct of experiments. Based on the need, technical staff extends their support to faculty and students even beyond working hours. The details of technical manpower support of the laboratories are depicted in Table B.6.1a





Table B.6.1a Details of Laboratory

S.No.	Name of the Laboratory	No. of students per setup (Batch Size)	Name of the Important equipment	Weekly utilization status (all the courses for which the lab is utilized)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
1.	Computer Center - XI	4	1. PERSONAL COMPUTERS: 2.93 GHz PROCESSOR, 2GB DDR3 RAM, 320 GB SATAHDD 2. HP LASER PRINTER 3. Mi Power Software	12+4+3	G.C.Joe Punitha	Lab. Instructor	DCSE
2.	Engineering Practices Lab	4	1. Megger 2. Metal Detector Distance measuring Meter	24+2+3	M.Thaiumanavan	Lab. Instructor	DEEE
3.	Electric Circuits Lab	4	1. Digital Storage Oscilloscope (50 MHz) 2. MATLAB 3. Regulated Power Supply Units	8+2+2	M.Kabeer	Lab. Instructor	DECE



4.	Electrical Machines Lab	4	<ol style="list-style-type: none"> <li>1. coupled with DC shunt motor (3.5KVA, 1500RPM, 5HP)</li> <li>2. DC Series generator (2.2KW,220 V,10A,1500 RPM)</li> <li>3. DC shunt generator (2.2KW,220 V,10A,1500 RPM)</li> <li>4. DC Compound generator (2.2KW,220 V,10A,1500 RPM)</li> <li>5. Three Phase Two Speed Pole changing motor (3HP,1440/2880RPM)</li> <li>6. Three Phase Synchronous motor (5HP,1500RPM) EMC make</li> </ol>	16+4+3	V.Marimuthu	Lab. Instructor	DEEE
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5.	Semiconductor Devices and Circuits Lab	4	Digital Storage Oscilloscope (50 MHz)	8+2+2	M.Thaiumanavan	Lab. Instructor	DEEE
6.	Analog and Digital Integrated Circuits Lab	4	1. Digital Storage Oscilloscope (50 MHz) 2. IC Trainer kit Function Generator	8+2+2	M.Thaiumanavan	Lab. Instructor	DEEE
7.	Control and Instrumentation Lab	4	1. AC Position Control 2. DC Position Control 3. Transfer function of AC servo motor 4. Stepper Motor 5. Ward Leonard Speed Control Kit Process Control Simulation 6. Schering bridge 7. Wheatstone Bridge 8. Maxwell's Bridge	8+2+2	V.Marimuthu	Lab. Instructor	DEEE



			<ul style="list-style-type: none"> <li>9. Anderson bridge</li> <li>10. LVDT</li> <li>11. Instrumentation Amplifier</li> <li>12. Pressure Transducer</li> </ul>				
8.	Power Electronics Lab	4	<ul style="list-style-type: none"> <li>1. AC Voltage Controller</li> <li>2. Cyclo-converter</li> <li>3. Single phase PWM inverter</li> <li>4. High frequency DC chopper Single phase half and fully controlled converter</li> </ul>	8+2+2	M.Kabeer	Lab. Instructor	DECE
9.	Microprocessor and Microcontroller Lab	4	<ul style="list-style-type: none"> <li>1. 8085 Microprocessor</li> <li>2. 8051 Microcontroller</li> <li>3. 8051 Microcontroller trainer kit with flash memory</li> </ul>	8+2+2	M.Kabeer	Lab. Instructor	DECE



			4. AT89C51 Microcontro ller 5. Digital Storage Oscilloscope (50 MHz)				
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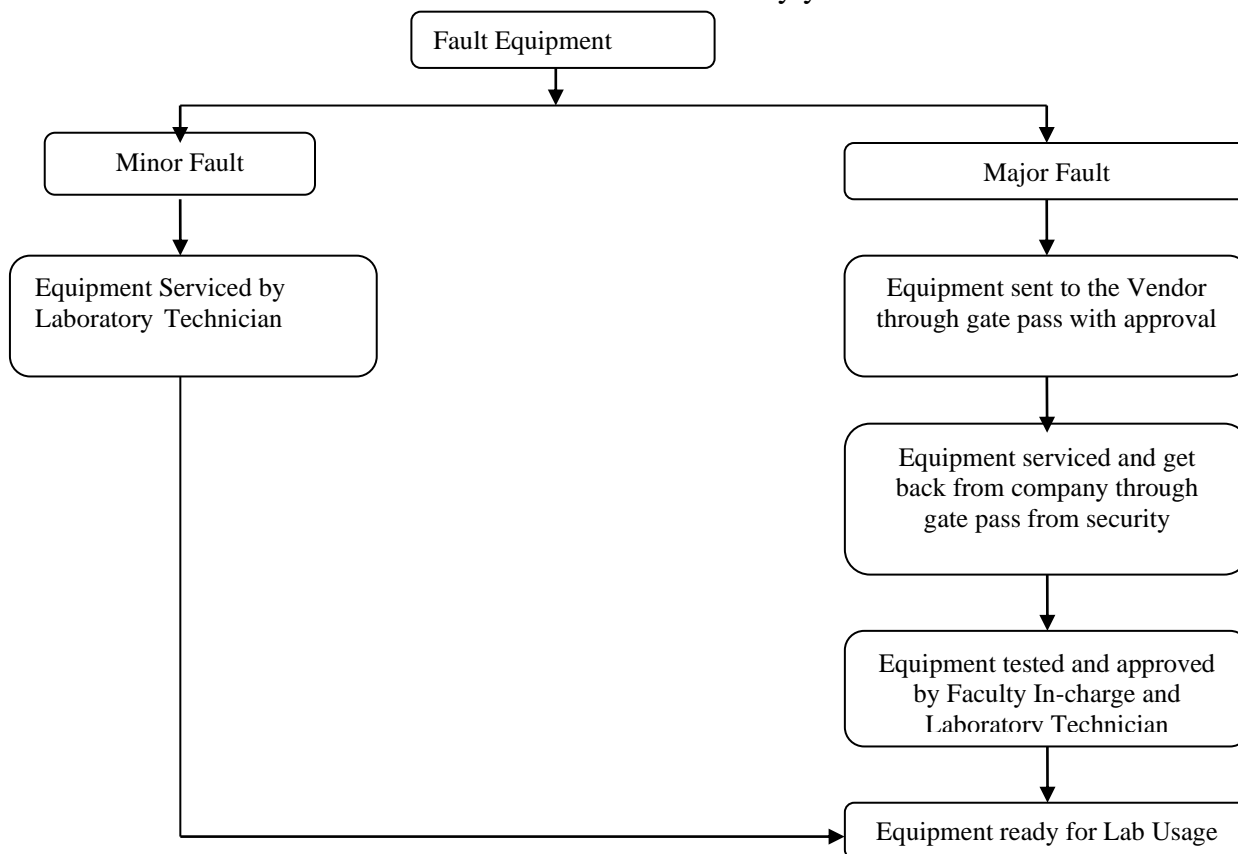
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**6.2 LABORATORIES MAINTENANCE AND OVERALL AMBIANCE (10)****Self Assessment (10)**

The laboratories are maintained regularly by Laboratory Instructor headed by Laboratory In-charge. The maintenance requirement is reported by Laboratory In-charge through reformation website. The Completion of the request is ensured by the respective In-charges. The Following Periodical Maintenance activities are done to keep the laboratory in a good ambient environment.

- Periodic Maintenance of Lab Equipments and working table is cleaned using thinner
- Electrical machines are cleaned by Blower
- Calibration of Meters once in 3 Years
- Equipments accessories replacement will be done when it is condemned
- Cleaning of Laboratory once in two days
- Mopping the floor once in a week
- System table is cleaned using cleaning liquid twice in a semester
- Refilling UPS Battery with distilled water periodically
- Toner is refilled for every 1800 (Average) copies
- Periodic System and AC Maintenance
- Stock verification is done at every year end.



**Figure B.6.2a Process Chart for Equipment Servicing**



Table B. 6.2a Details of Service Provider

Sr. No.	Name of the Laboratory	Name of the Service Provider
1.	Computer Center - XI	M/s. Megatronics, Coimbatore M/s. Vi Microsystems Pvt Ltd., Coimbatore M/s. Gurudev Rewinding Works, Erode
2.	Engineering Practices Lab	
3.	Electric Circuits Lab	
4.	Electrical Machines Lab	
5.	Semiconductor Devices and Circuits Lab	
6.	Analog and Digital Integrated Circuits Lab	
7.	Control and Instrumentation Lab	
8.	Power Electronics Lab	
9.	Microprocessor and Microcontroller Lab	



The screenshot shows a web browser window with the URL [123.255.251.250/Complaints/ntccompleted.php](http://123.255.251.250/Complaints/ntccompleted.php). The page title is 'COMPLETED LIST'. There are two buttons: 'HOME' and 'PENDING ENTRY'. Below the buttons is a search bar and a 'Show 10 entries' dropdown. The main table has the following columns: S.No, Institution, Department, Date, Staff Name, Category, work Nature, Work Status, Facility, Location, Complete Date, Reason, and Status. All 'Work Status' and 'Status' cells contain a green 'Completed' or 'Done' button.

S.No	Institution	Department	Date	Staff Name	Category	work Nature	Work Status	Facility	Location	Complete Date	Reason	Status
274254	NEC	NEC-EEE	2022-06-07	ARUNKUMAR V-8026333032	Complaints	Electrical work	Completed	fan not working-1nos	BLOCK IV-EEE DEPARTMENT-THIRD FLOOR-301	2022-06-22 00:00:00.000		Done
274280	NEC	NEC-EEE	2022-06-15	ARUNKUMAR V-8026333032	Complaints	Civil work	Completed	Water leaking from top floor to third floor	Block IV-EEE DEPARTMENT-top floor water tank			Done
274335	NEC	NEC-EEE	2022-06-22	ARUNKUMAR V-8026333032	Complaints	Electrical work	Completed	fused tubelight has to be replaced-2nos	Block IV-EEE DEPARTMENT-THIRD FLOOR-ROOM NO 301			Done
295299	NEC	NEC-EEE	2022-09-24	JAMUNA P-9750533008	Complaints	Plumbing work	Completed	PROPER WATER FACILITY NEED TO BE PROVIDED	BLOCK IV-EEE DEPARTMENT-THIRD FLOOR-FOURTH FLOOR-RESTROOM-WASHBASIN	2022-10-06 00:00:00.000		Done

The screenshot shows a web browser window with the URL [123.255.251.250/Complaints/ntccompleted.php](http://123.255.251.250/Complaints/ntccompleted.php). The page title is 'COMPLETED LIST'. There are two buttons: 'HOME' and 'PENDING ENTRY'. Below the buttons is a search bar and a 'Show 10 entries' dropdown. The main table has the following columns: S.No, Institution, Department, Date, Staff Name, Category, work Nature, Work Status, Facility, Location, Complete Date, Reason, and Status. All 'Work Status' and 'Status' cells contain a green 'Completed' or 'Done' button.

S.No	Institution	Department	Date	Staff Name	Category	work Nature	Work Status	Facility	Location	Complete Date	Reason	Status
263882	NEC	NEC-EEE	2022-03-19	ARUNKUMAR V-8026333032	Complaints	Electrical work	Completed	FUSED TUBE LIGHT HAS TO BE REPLACED-2NOS	BLOCK IV-EEE DEPARTMENT-THIRD FLOOR-ROOM NO 301	2022-05-12 00:00:00.000		Done
263853	NEC	NEC-EEE	2022-03-19	ARUNKUMAR V-8026333032	Complaints	Electrical work	Completed	FUSED TUBE LIGHT HAS TO BE REPLACED-1 NOS	BLOCK IV-EEE DEPARTMENT-THIRD FLOOR-ROOM NO 306	2022-05-12 00:00:00.000		Done
263984	NEC	NEC-EEE	2022-03-19	ARUNKUMAR V-8026333032	Complaints	Electrical work	Completed	FUSED TUBE LIGHT HAS TO BE REPLACED -1 NOS	BLOCK IV-EEE DEPARTMENT-THIRD FLOOR-ROOM NO 307	2022-05-12 00:00:00.000		Done
263905	NEC	NEC-EEE	2022-03-19	ARUNKUMAR V-8026333032	Complaints	Electrical work	Completed	FAN ROTATING SLOWLY-NEED TO CHANGE THE CAPACITOR	BLOCK IV-EEE DEPARTMENT-FOURTH FLOOR-STAFF ROOM -406A	2022-05-12 00:00:00.000		Done

Figure B. 6.2b Maintenance of complaints in reformation site







**Figure B. 6.2c Servicing UPS Equipment**

### **OVERALL AMBIANCE OF LABORATORY**

- The Department Electrical and Electronics Engineering own Excellent Laboratories which are extensively utilized round the year to meet the curriculum requirements.
- Ergonomic furniture is provided in each laboratory for the students to work comfortably.
- Laboratory notice boards also serve as a mode to disseminate the vision and mission of the department, PEO, PO, and PSO.
- The Weekly scheduled of the sessions handled in each laboratory is displayed for the respective lab for the users to know the free slots.
- First Aid measures are available in all the laboratories.



Table B.6.2b Area of Laboratories

S.No.	Name of the Laboratory	Area in sq. ft
1.	Computer Center - XI	1304.36
2.	Engineering Practices Lab	569.67
3.	Electric Circuits Lab	569.67
4.	Electrical Machines Lab	1713.72
5.	Semiconductor Devices and Circuits Lab	1139.35
6.	Analog and Digital Integrated Circuits Lab	1139.35
7.	Control and Instrumentation Lab	1139.35
8.	Power Electronics Lab	1139.35
9.	Microprocessor and Microcontroller Lab	1139.35
<b>Total Area in sq. ft</b>		<b>9854.17</b>



Table B.6.2c Total Investment in Laboratories

Sr. No.	Name of the Laboratory	Investment INR (Lakhs)
1.	Computer Center - XI	15.11
2.	Engineering Practices Lab	0.39
3.	Electric Circuits Lab	3.87
4.	Electrical Machines Lab	13.07
5.	Semiconductor Devices and Circuits Lab	3.61
6.	Analog and Digital Integrated Circuits Lab	4.64
7.	Control and Instrumentation Lab	6.47
8.	Power Electronics Lab	7.78
9.	Microprocessor and Microcontroller Lab	3.26
<b>Total Investment INR (Lakhs)</b>		<b>58.2</b>



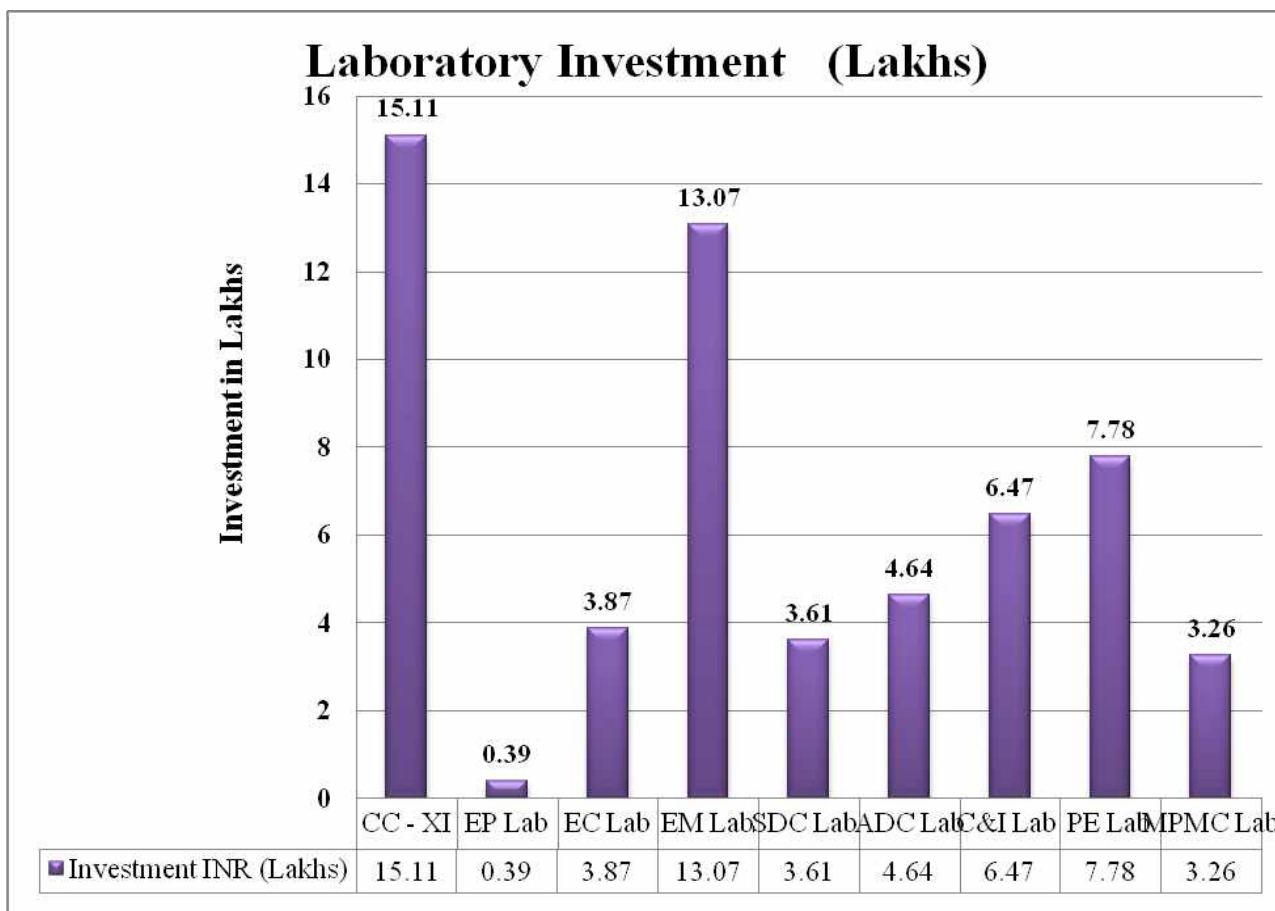


Figure B.6.2d Total Investment in Laboratories





Figure B.6.2.e Electrical Machines-I & II Laboratory



Figure B.6.2.f Power Electronics Laboratory





**Figure B.6.2.g Electron Devices and Circuits Laboratory**



**Figure B.6.2.h Microprocessor and Microcontroller Laboratory**



**Additional Facilities created for Improving the Quality of Learning Experience****Additional Facilities Available****Table B.6.2.d Additional Facilities Available in the Department of EEE**

S. No.	Name of the Facilities	Details
1	Tutorial Class Room	Room is utilized when student group is small. Elective and Analytical courses are handled in this space.
2	Seminar Hall	Utilized for organizing Guest Lectures, Seminars, Conferences, FDPs, Webinars and any other similar events.
3	Department Library	Stacked with Books, Magazines, Journals, Project Reports etc. for the use of department students and faculty members.
4	Computing facility with high speed internet connection of 256 Mbps	It facilitates e-learning, classroom online videos, hands on sessions, quick assessment student group learning through webinar etc.
5	LED Projector	Smart class room to maximize the learning experience.
6	E <sup>2</sup> Lab	It aids the students to know the physical identification of electrical and electronics components.





Figure B.6.2h Department Library





## 6.3 SAFETY MEASURES IN LABORATORIES

(10)

Self Assessment (10)

Table B.6.3a Safety Measures in Laboratories

S.No.	Name of the Facilities	Details
1.	Computer Center - XI	<u>Precautions in Laboratory</u> ✓ Floor mat are provided in each working table of Electrical Machines Laboratory. ✓ A Bucket with Sand. ✓ Do's and Don'ts board is displayed in each laboratory. ✓ Good lightening: The laboratories are well illuminated to provide light to make the room bright for all the activities carried out. ✓ Keeping liquid away from the computer room. ✓ Anti-virus software installed in all the computer system. ✓ Protection from power problems: The surge protectors, the use of UPS to prevent any damage caused by power fluctuations for computers. ✓ First Aid boxes are available in all areas throughout the Department. They are typically located in laboratory areas. ✓ Fire Extinguishers are placed in proper location to steer clear of fire accidents.
2	Engineering Practices Lab	
3	Electric Circuits Lab	
4	Electrical Machines Lab	
5	Semiconductor Devices and Circuits Lab	
6	Analog and Digital Integrated Circuits Lab	
7	Control and Instrumentation Lab	
8	Power Electronics Lab	



9	Microprocessor and Microcontroller Lab	✓ Proper dress code and wearing of leather shoes for students was insisted.
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Figure B.6.3a Fire Extinguisher  
[In front of all the laboratories]

Figure B.6.3b First Aid Box  
[Inside all the laboratories]



Figure B.6.3c Do's and Don'ts

[Inside all the laboratories]



**Figure B.6.3d Tripper**  
[Inside all the laboratories]



**Figure B.6.3e Separate UPS Room**  
[Outside the laboratory]

#### **6.4 PROJECT LABORATORY**

(20)

**Self Assessment (20)**

The project laboratory has a key role in promoting practical and hands on learning throughout the program. It is mainly utilized for the innovative Project and Mini Project Works.



- The laboratory is opened to the students from 9.00 a.m. to 8.00 p.m. If the students are willing to work on their projects, even after the working hours they are allowed to work along with a faculty member / lab technician.
- Every laboratory integrates project making exercise.
- Internet facilities have been provided without limitation.
- Open-source software's are useful for the faculty who are pursuing their research projects and also useful for students in their projects
- Apart from project lab, all the labs in the department are also used for doing projects.
- As an additional outcome of the project laboratory, many projects are also carried out for the institute (I-CLUB).



**Figure B.6.4a Project Laboratory**

### **Industry Supported Laboratory**

KULLOTHUNG AUTOMOTIVE PRIVATE LIMITED, Chennimalai, Erode, represented by Mr. Nehru – Director. It is one of the growing automotive firm providing wide spectrum of services. It gives trainings in automotive sector and testing field on various technologies for college students and working professionals.



## Supplies, Services and Activities

- Imparting Training with reference to Industrial Needs by deputing personnel from KULOTHUNG AUTOMOTIVE SYSTEMS.
- Students can involve in the research activity of KULOTHUNG AUTOMOTIVE SYSTEMS
- Delivery of Special Lectures on Advanced Topics.
- Research and Development works proposed by KULOTHUNG AUTOMOTIVE SYSTEMS without hindering the activities of Nandha Engineering College.
- The students can actively involve in project development of KULOTHUNG AUTOMOTIVE SYSTEMS
- Industrial Visits for the Students and Faculty.
- Imparting specialized skills (Domain knowledge, Projects and Paper presentations) relevant to industries.
- Specialized training for faculty and students through practical aspects and project development.
- Training for a selected number of students per semester on industry based projects.
- Preference to Information Technology standards of Nandha Engineering College for their on-shore and off-shore Human Resource requirements (placement).
- Value Added Industry Institute Interaction based training programmes like Inplant training and summer Internship Programs.





**Figure B.6.4b Kulothung Automotive Systems Laboratory**



**Figure B.6.4c Kulothung Automotive Systems Laboratory**

To meet the current demands of the industries, the department has taken initiatives to establish the following laboratories supported by industries.



**Table B.6.4a Important Equipment in Kulothung Automotive Systems Laboratory**

S. No.	Name of the Equipment
1.	8 bit 8051 RTOS development board
2.	8 bit PIC Microcontroller
3.	TMS320VC5416 DSP Processor
4.	TMS320VC5416 DSP Processor support software tools (VI Debugger VSK-C5416)
5.	Universal VLSI Trainer Kit
6.	SPARTAN Board
7.	CPLD Board
8.	System (CPU)
9.	16 Bit MSP430F1611 Microcontroller with Debugger
10.	16 Bit MSP430F1611 with Support Software Tools (Flash Magic, IAR Embedded Workbench)
11.	ARM7 Development board
12.	Digital Storage oscilloscope
13.	Stepper Motor
14.	ARM11 Development board



15.	Micro Controller Based Speed Control Of Stepper Motor
16.	Condition Monitoring Of 3phase Induction Motor Under Fault Conditions





# CRITERION 7

## CONTINUOUS IMPROVEMENT

Department of Electrical And Electronics Engi



<b>CRITERION 7</b>	<b>Continuous Improvement</b>	<b>75</b>
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Self Assessment (75)

**7.1 Actions taken based on the results of evaluation of each of the COs, POs & PSOs (30)**

Self Assessment (30)

*Identify the areas of weaknesses in the program based on the analysis of evaluation of COs, POs & PSOs attainment levels. Measures identified and implemented to improve POs& PSOs attainment levels for the assessment year including curriculum intervention, pedagogical initiatives, support system improvements, etc.*

Identify the areas of weaknesses in the program based on the analysis of evaluation of COs, POs & PSOs attainment levels. Measures identified and implemented to improve POs& PSOs attainment levels for the assessment year including curriculum intervention, pedagogical initiatives, support system improvements, etc.

Examples of analysis and proposed action **Sample 1**-Course outcomes for a laboratory course did not measure up, for some of the POs like (Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice) are not realized for the given COs.

**Sample 2**-In a course on Programming languages, student performance has been consistently low with respect to some COs. Analysis of answer scripts and discussions with the students revealed that this could be attributed to a weaker course on vector calculus.

Action taken-revision of the course syllabus was carried out (instructor/text book has been changed, when deemed appropriate).

**Sample 3**-In a course that had group projects it was determined that the expectations from this course about PO3 (like: “to meet the specifications with consideration for the public health and safety, and the cultural, societal, and environmental considerations”) were not realized as there were no discussions about these aspects while planning and execution of the project.

Action taken- Projects are selected and evaluations are performed based on the above criteria

*Actions to be written as per table in 3.3.2*

**POs & PSOs Attainment Levels and Actions for improvement – CAY only**



NANDHA

ENGINEERING COLLEGE (Autonomous)

Table B.7.1 POs &amp; PSOs Attainment Levels and Action Taken for Improvement

<b>PO1: Engineering Knowledge:</b> Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.			
POs	Target Level	Attainment Level	Observations
PO1	70 %	73.89%	Target achieved. Various art of learning methods are included to develop the analytical skills for solving complex problems and individual attention was given to every student to solve the complex problems.
Action 1: Students are motivated to enrich their knowledge by attending value added courses such as PCB design, PLC and Industrial Automation.			
Action 2: Analytical subjects were demonstrated to students through video lectures.			
<b>PO2: Problem Analysis:</b> Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.			
POs	Target Level	Attainment Level	Observations
PO2	70 %	70.20%	Target achieved. Analysis of various engineering problems in recent technology can be strengthening to improve students ability.
Action 1: An industrial seminar on the topic “Applied Power Systems & Opportunities in Power sector” was organized on 19.02.2019 to enrich their problem solving ability in technical subjects.			
Action 2: Faculty members are encouraged to take up online courses and faculty development programs for updating in the recent technologies and shall act as mentor to guide the students in knowing the advancements in engineering.			
<b>PO3: Design/ Development of Solutions:</b> Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.			
POs	Target Level	Attainment Level	Observations
PO3	70 %	74.17%	Target achieved. The scope for designing and developing components, and circuits are included in the curriculum.
Action 1: Curriculum is developed for students to do some useful projects through Project Based Learning (PBL).			
Action 2: Final year students engage with design and fabrication projects in their seventh and eighth semesters meeting the design and development of solutions.			



<p>Action 3: Students engage with internships from third year onwards in reputed industries.</p> <p>Action 4: Students take up projects containing design and experimentation processes together to develop themselves in electrical systems design and experimentation.</p>			
<p><b>PO4: 4. Investigate complex problems:</b> Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.</p>			
POs	Target Level	Attainment Level	Observations
PO4	70 %	71.28%	Attainment level is marginal. More concentration needed in the areas like design and analysis, data manipulation
<p>Action 1: Real time projects were given to the students and they are guided by both faculty and Industry/Research personnel. Students were also guided to publish their project work in conferences.</p> <p>Action 2: Students participation in the activities like Smart India Hackathon enhanced the problem solving skills.</p>			
POs	Target Level	Attainment Level	Observations
<p><b>PO5: Modern Tool Usage:</b> Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.</p>			
POs	Target Level	Attainment Level	Observations
PO5	70 %	73.60%	Target achieved. Students are made to be familiar with recent technologies and are exposed to open source tools.
<p>Action 1: Students are made to use open source tools like Edmodo for the submission of assignments and quiz</p> <p>Action 2: One credit courses on usage of recent tools are conducted to make students aware of tools availability.</p> <p>Action 3: Students are involved in organizing and attending workshops and industrial seminars related to modern tooling and their needs in this growing technological world.</p> <p>Action 4: Students have attended a workshop titled” Recent Developments in AUTOCAD Electrical, Block chain &amp; IOT” to enhance their design skills in any electrical network.</p>			
<p><b>PO6: The Engineer and Society:</b> Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.</p>			



POs	Target Level	Attainment Level	Observations
PO6	70 %	70.76%	Target achieved. Students are trained with various soft skills techniques to meet the Industry standard
<p>Action 1: Students' are supported to take up internships in industry to understand the aspects of an engineer's work and its impact in societal, health, safety, legal &amp; cultural issues.</p> <p>Action 2: Club activities, Awareness programs and interactive sessions are arranged for the students to act as a professional engineer considering the societal, health, safety, legal &amp; cultural issues</p>			
<p><b>PO7: Environment and Sustainability:</b> Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.</p>			
POs	Target Level	Attainment Level	Observations
PO7	70%	64.35%	Target not achieved. Awareness on enhancing eco friendly environment is needed.
<p><b>Action 1:</b> Awareness on environment and sustainability can be improved by organising social club activities.</p> <p><b>Action 2:</b> Field visits to several renewable energy plants will be conducted to take up solar thermal energy related projects</p> <p><b>Action 3:</b> Students are engaged in tree planting activities through Tree Plantation Club to understand environmental impacts</p>			
<p><b>PO8: Ethics:</b> Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.</p>			
POs	Target Level	Attainment Level	Observations
PO8	70 %	65.84%	Target not achieved. Courses contributing towards ethical aspects were limited. International and Industry standards for all the problem solutions, product development have to be included in relevant courses.
<p>Action 1: Personal values have been introduced as a non credit course for educating students about professional and ethical responsibilities.</p> <p>Action 2: Ethical practices and moral values in industries will be demonstrated during industrial visits, in-plant trainings and through industrial seminars by industrial experts.</p> <p>Action 3: Students are assigned with responsibilities as Event Coordinators/ Volunteers in organizing programs through Department association/Profession Society to learn the professional and ethical responsibilities.</p>			



Action 4: Students will be motivated to attend programs on ICT Academy organized Youth Leadership Summit to improve the knowledge in professional ethics and standards.

Action 5: Courses like Constitution of India and Essence of Indian tradition will be incorporated in the curriculum as non credit courses helps the students to understand their societal and safety needs during their engineering practices.

**PO9: Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

POs	Target Level	Attainment Level	Observations
PO9	70 %	70.86%	Target achieved. Attainment level is marginal. Group activities among students to build team spirit are lesser.

Action 1: Participation in Co-curricular and Extracurricular activities was promoted to bring out individual skills of each student.

Action 2: Group activities like symposium, intra & inter department meet were organized for effective team building.

Action 3: Opportunities are provided to students to participate in inter and intra sports competitions as individual and as a team.

Action 4: students are separated into batches and made to work as a team for projects during seventh and eighth semesters.

**PO10: Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

POs	Target Level	Attainment Level	Observations
PO10	70 %	76.61 %	Target achieved. Continuous improvement in expressions of thoughts and innovative ideas by the students is encouraged.

Action 1: Program organized in the topic “Effective public speaking” enhanced the student’s spoken skill.

Action 2: Soft skill training programs were provided for the improvement of communication and presentation skills like reading, writing, speaking etc.

Action 3: Students are motivated to enrich their communication skills through various online applications like Duolingo, Hello English, Speaking Practice, Babbel etc



<b>PO11: Project Management and Finance:</b> Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.			
Pos	Target Level	Attainment Level	Observations
PO11	70 %	66.05%	Target not achieved. Students can improve their managerial skills through Project based learning, consultancy and mini projects which contribute fully to the attainment of this PO. Students will be trained to do projects as like how it is performed in companies
<p><b>Action1:</b> Students will be motivated to improve their project management skills by applying projects in funding agencies like TNSCST</p> <p><b>Action 2:</b> Students will be guided to contribute towards Consultancy Project in order to enhance their expertise in project management and financial governance</p> <p>Action 3: Students will be directed to involve in several innovative project ideas and design submissions through CIPD cell.</p>			
<b>PO12: Life-long Learning:</b> Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.			
Pos	Target Level	Attainment Level	Observations
PO12	70 %	70.04%	Target achieved. Attainment level is marginal. It was observed that the learning habit of students and aware of latest technology development should be improved.
<p>Action 1: Open elective courses were conducted to acquire knowledge in multidisciplinary domain and explore carrier path in different domains.</p> <p>Action 2: One credit courses were conducted in the areas through which the students learn recent technologies to become industry ready.</p> <p>Action 3: Selection of elective courses enhanced the knowledge in their area of specialization and inturn it provided a path way to life- long learning.</p> <p>Action 4: Students are motivated to involve in organizing and participation in different technical events as a source of life-long learning.</p> <p>Action 5: Students are counseled to taking up higher education in leading institutions and universities to improve their platform of lifelong learning.</p> <p>Action 6: Newspaper reading is made usual to the students by placing it in a common forum in the department and library</p>			



<b>PSO1:</b> Demonstrate knowledge and competence in the application of basic sciences, mathematics and fundamentals of electrical and electronics systems.			
PSOs	Target Level	Attainment Level	Observations
PSO1	70%	73%	Target achieved. Students are insisted to learn the basics of mathematics, electrical & electronics for their enhancement. They are motivated to do online courses in basics.
Action 1: Bridges courses were conducted to enhance their basic knowledge on mathematical foundations. Action 2: Additional classes were handled beyond the regular class schedule Action 3: Industrial Visits and internships are arranged for students in reputed industries			
<b>PSO2:</b> Ability to explore complex engineering problems			
PSOs	Target Level	Attainment Level	Observations
PSO2	70%	70%	Target achieved. Open electives are introduced to students so that they get the knowledge in various domains.
Action 1: Students can select the electives from other domains. Action 2: Videos and Animations are used as a additional teaching resources for the courses related to control systems and electrical machines. Action 3: Students are encouraged to attend workshops, hands on trainings, seminars related to latest materials for analyzing recent engineering problems Action 4: Students are guided to take up projects related to Embedded systems and IoT based electrical systems.			
<b>PSO3 :</b> Demonstrate the ability to communicate correctly, effectively work in a team and develop good personality.			
PSOs	Target Level	Attainment Level	Observations
PSO3	70%	74%	Target achieved. Communication is a vital management component to any organization.
Action 1: Students are directed to participate in oratorical competition to enhance their communication skills. Action 2: Soft skills – Reading, Listening and Reasoning are added in the curriculum. Action 3: Students are encouraged to use online applications like English speaking Hello English, Duolingo.			
<b>PSO4:</b> Apply appropriate techniques and modern engineering tools in core areas.			





PSOs	Target Level	Attainment Level	Observations
PSO4	70%	67%	Target not achieved. A strong foundation in recent engineering techniques and understanding the tools is a challenging task.
<p><b>Action 1:</b> One credit courses will be planned to conduct on usage of recent tools.</p> <p><b>Action 2:</b> The students will be guided to publish papers in Scopus journals.</p> <p><b>Action 3:</b> Field visits to solar systems inside the institution and other plants outside will be arranged for the students.</p> <p><b>Action 4:</b> Recent tools will be added in the curriculum to develop their ideas in core areas.</p>			

## 7.2 Academic Audit and actions taken thereof during the period of Assessment (15)

Self Assessment (15)

*(Academic Audit system/process and its implementation in relation to Continuous Improvement)*

The Institution has an Internal Quality Assurance Cell (IQAC) to improve the quality of education. IQAC cell includes Principal, six senior administrative officers, nine teachers, management representative, nominees from local society, industry, alumni and final year student, and a co-ordinator. The prime task of the IQAC is to develop a system to improve the overall performance of the institution. It channelizes all efforts and measures of the institution towards promoting its holistic academic excellence. Further, it promotes institutional functioning towards quality enhancement through internalization of quality culture and institutionalization of best practices.

Quality assurance initiatives of the institution are

- Academic Audit
- Department Appraisal

The academic audit is conducted through Academic Audit Committee, to assess the progress of system performances to ensure the quality in education.



The academic audit committee consists of senior faculty members from various programmes. The committee has one faculty member at Professor Level as chief coordinator and two senior faculty members as coordinators with other faculty members as auditors. The process of auditing is presented as a flowchart in Figure B.7.2a.

The frequency of academic auditing is once in a semester. Standard formats are given to departments for preparing course files. Faculty members will prepare course files before the semester starts as per recommendations.

The academic committee performs first level of audit during the starting of semester and verifies the contents of the course file, lesson plan, assignments, extra material lecture notes, etc. The comments of the committee are given as feedback to the faculty member to include the recommended material.

The second level of auditing is performed during the end of semester by the HoDs with senior faculty members of the respective department to ensure the adherence of instructions given by the audit committee through a check list.

Third level of auditing is performed by engaging senior faculty members from leading colleges as external auditors and all academic related process are audited during the end of each semester.

Feedback is communicated to the faculty member for all three levels of audit and action taken on non conformity is ensured by the audit team and reviewed by the Head of the institution. This audit ensures the quality deliverables to the students.

Quality audit like department appraisal is done to ensure various parameters such as Academic results, Placement, research, faculty achievement/contribution, project development. Progress of the department appraisal is monitored through monthly presentation. At the end of the year, an audit committee is formed to audit the department appraisal and departments are honored in the appraisal day.



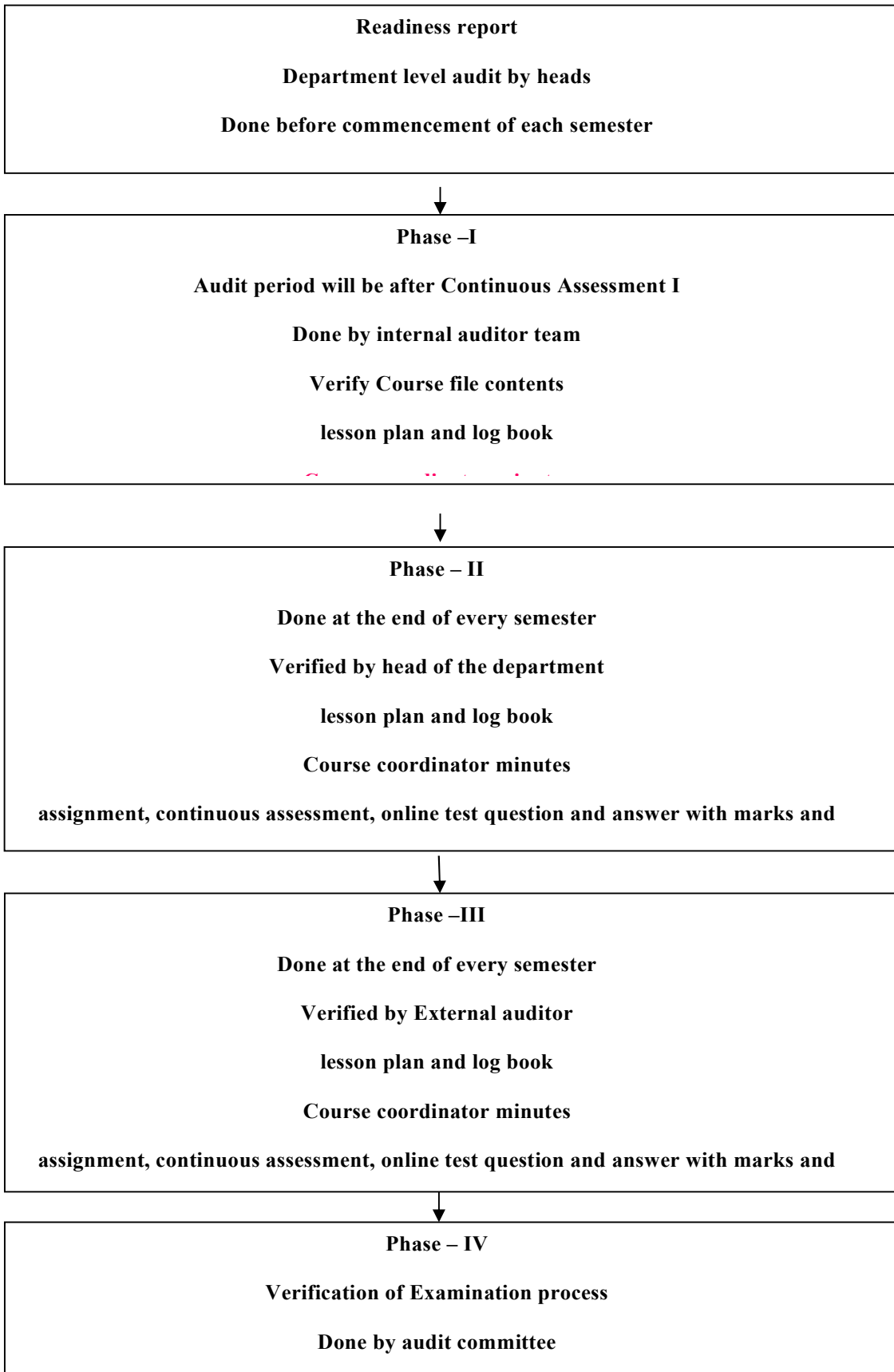


Figure B 7.2aFlow Chart for Academic Audit

ymous)

Standard formats are given to departments for preparing course files. Faculty members will prepare course files before the semester starts as per recommendations mentioned in below table.

S. No.	TABLE OF CONTENTS
1	VISION & MISSION OF THE INSTITUTE AND DEPARTMENT, PEOs, PSOs & POs
2	SYLLABUS
3	MAPPING OF CO & PO AND MAPPING OF CO & PSO
4	ASSESSMENT OF CO
5	ACADEMIC CALENDAR
6	CLASS TIME TABLE
7	STUDENT NAMELIST
8	ZEROth COURSE COORDINATORS MEETING MINUTES
9	LESSON PLAN
10	a) ASSIGNMENT QUESTIONS, KEY AND MARK b) ONLINE TEST / QUIZ KEY & MARK c) CAT QUESTIONS, KEY, MARK AND ATTAINMENT d) COURSE COORDINATORS MEETING MINUTES
11	COURSE END SURVEY AND ANALYSIS
12	CONTINUOUS ASSESSMENT MARKS STATEMENT
13	END SEMESTER QUESTION PAPER
14	END SEMESTER RESULT
15	OVERALL ATTAINMENT
16	ATTAINMENT OF PO
17	ATTAINMENT OF PSO
18	LECTURE NOTES (HAND WRITTEN/PPT/E – CONTENT)
19	LOG BOOK
20	SAMPLE ANSWER BOOKLETS

**Figure B. 7.2b Course File Content**



Readiness Report

Department level audit is done by Heads before commencement of each semester. Lesson Plan, Lecture Notes, application PPT, Question bank, Lab manual, Class room and laboratories are audited and reported.

NANDHA ENGINEERING COLLEGE, ERODE-54  
DEPARTMENT OF EEE  
CHECK LIST-ACADEMIC LABORATORY-ODD SEM 2021-22

II YEAR	Class/ Sem	Place (Block/Floor/ r/No.)	Lab Name	Faculty Name	Lab manual Master Copy	Equipment working condition Status	PPT	Printed record note Book-Soft Copy	Whether all experiments tested by faculty	Experiment and Equipment display in notice board	Faculty Signature with date	HOD Signature	Remarks
							Appli cation						
II YEAR	II-EEE III	Block-IV IV Floor	Electronic Devices and Circuits Lab	Ms. K. Sathyaarree	✓	✓	✓	✓	✓	✓	[Signature]	[Signature]	
			Block-II Ground Floor	Electrical Machines Laboratory	Mrs. S. Elango	✓	✓	✓	✓	✓	✓	[Signature]	[Signature]
III YEAR	III-EEE I	Block-IV IV Floor	Control & Instru- mentation Lab.	Dr. T. Jayakumar Ms. N. Rajaseelvi	✓	✓	✓	✓	✓	✓	[Signature]	[Signature]	
			Block-IV IV Floor	Power Electronics Lab.	Ms. R. Vijayalakshmi Mr. V. Arunkumar	✓	✓	✓	✓	✓	✓	[Signature]	[Signature]
IV YEAR	IV-EEE III	Block-IV IV Floor	Power System Simulation Laboratory	Mr. M. Prabu Mr. P. Krishnasekhar	✓	✓	✓	✓	✓	✓	[Signature]	[Signature]	
			Block-II II Floor	Project work-I	Dr. G. Ramani Dr. P. Jamuna	✓	✓	✓	✓	✓	✓	[Signature]	[Signature]

INCHARGE: [Signature]      HOD/EEE: [Signature]

Figure B 7.2c Screenshot of Check-List Academic Laboratory Report



C R I T E R I O N 7



NANDHA ENGINEERING COLLEGE, ERODE-52  
DEPARTMENT OF EEE  
CHECK LIST-ACADEMIC THEORY-ODD SEM 2021-22

II YEAR	Class/ Sem	Subject Name	Faculty Name	Lesson plan	Lecture notes	PPT		Question bank with answers	Faculty Signature with date	HOD Signature	Remarks
						Notes	Application				
II EEE III		Transformed And Partial Differential Equations	Mr. A. Megala	✓	✓	✓	✓	✓	[Signature]		
		Electronic Devices and Circuits	Ms. K. Sathyaarce	✓	✓	✓	✓	✓	[Signature]		
		Electrical Machines-I	Mr. S. Elango	✓	✓	✓	✓	✓	[Signature]		
		Field Theory	Mr. M. Prabhu	✓	✓	✓	✓	✓	[Signature]		
		Power plant Engineering	Dr. P. Jamuna	✓	✓	✓	✓	✓	[Signature]		
		Data Structures And Algorithms	Ms. N.M. Indumathi	✓	✓	✓	✓	✓	[Signature]		

III YEAR	Class/ Sem	Subject Name	Faculty Name	Lesson plan	Lecture notes	PPT		Question bank with	Faculty Signature with date	HOD Signature	Remarks
						Notes	Application				
III EEE IV		Principles of Management	Dr. G. Arthy Ms. K. Sathyaarce	✓	✓	✓	✓	✓	[Signature]		
		Measurements and Instrumentations	Ms. S. Sasi Kumar Ms. N. Kalai Selvi	✓	✓	✓	✓	✓	[Signature]		
		Control Systems	Mr. V. Ravichandran Ms. M. Manjula	✓	✓	✓	✓	✓	[Signature]		
		Power Electronics	Ms. R. Vijayalakshmi Mr. V. Arunkumar	✓	✓	✓	✓	✓	[Signature]		
		Communication Engg.	Dr. J. Jayakumar Mr. M. Prabhu	✓	✓	✓	✓	✓	[Signature]		
		Database Systems/High Voltage Engineering	Ms. Thangamani S & Mr. Praba karan S	✓	✓	✓	✓	✓	✓	[Signature]	

IV YEAR	Class/ Sem	Subject Name	Faculty Name	Lesson plan	Lecture notes	PPT		Question bank with	Faculty Signature with date	HOD Signature	Remarks
						Notes	Application				
IV EEE VI		Electric Drive and control	Dr. G. Ramani Dr. P. Jamuna	✓	✓	✓	✓	✓	[Signature]		
		Power System Protection and Switchgear	Ms. R. Vijayalakshmi Mr. V. Arunkumar	✓	✓	✓	✓	✓	[Signature]		
		Principles of Embedded Systems	Dr. A. Arathesh Mr. B. Ramraj	✓	✓	✓	✓	✓	[Signature]		
		Power System Operation and control	Ms. B. Ramraj Ms. D. Subalakshmi	✓	✓	✓	✓	✓	[Signature]		
		Flexible AC Transmission Systems	Mr. P. Kishoregandhi	✓	✓	✓	✓	✓	✓	[Signature]	

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Figure B 7.2d Screenshot of Check-List Academic Theory Report




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NANDHA ENGINEERING COLLEGE, ERODE-52  
DEPARTMENT OF EEE  
CHECK LIST-INFRASTRUCTURE CLASS ROOM-ODD SEM 2021-22

S.No	Class/Year	Place (Block//No.)			Black board	Projector	Window Screen	Desk and Bench	Faculty incharge Signature with date	DEAN/HOD Signature	Remarks
		Block	Floor	Room No.							
1	EEE/II	IV	II	302	✓	✓	✓	✓	<i>[Signature]</i> 15/11/21		
2	EEE/III	IV	III	3052 306	✓	✓	✓	✓	<i>[Signature]</i> 15/11/21	<i>[Signature]</i> 15/11/21	
3	EEE/IV	IV	III	3012 307	✓	✓	✓	✓	<i>[Signature]</i> 15/11/21		



INCHARGE



HOD/EEE

Figure B 7.2e Screenshot of Check-List Infrastructure Report



## Academic audit:



**NANDHA ENGINEERING COLLEGE**  
(Autonomous)  
Affiliated to Anna University Chennai + Approved by AICTE+ Accredited by NBA-New Delhi  
Pitchandampalayam (P.O), Vaikkalmedu , Erode-Perundurai Road, ERODE –638 052.  
Phone: 04294-225585, 223711, 223722, 226393, Fax: 04294-224787  
Website : www.nandhaengg.org E.Mail: info@nandhaengg.org

**Dr. N.Rengarajan , B.Sc., B.Tech. M.E., Ph.D**  
PRINCIPAL

NEC/Cir/2019-20/AAC016

Date: 11.02.2020

Time : 09.30 AM

CIRCULAR

Classification	ROUTINE	IMMEDIATE
Academic	Originator : PRINCIPAL	Circulated to : Deans and HODs,

Sub: Academic Audit 2019-2020 (Odd Semester) – Reg.

\*\*\*\*\*

Academic audit of 2019-2020 (Odd Semester) is scheduled on 14.02.2020 & 15.02.2020 for all UG & PG programmes. The assessment period for audit will be CAT-I, CAT-II and CAT-III of all years. The detailed schedule of the audit is listed below.

Date & Time of Audit	Audit Team	Department to be Audited	Venue
<b>14.02.2020</b>  (9.30 am – 12.30 pm), (1.30 pm – 4.30 pm)	<u>External Auditor</u> Dr. S. J. Suji Prasad, Associate Professor, Department of EIE, Kongu Engineering College, Erode.  <u>Internal Auditors</u> 1. Mr. Karthy A. AP/Agri 2. Mrs. Uma P. AP/CSE 3. Mr. Rajasekaran K. AP/Chem 4. Mrs. Thaarani T. G. ASP/ECE 5. Mr. Shrigowtham M.N. AP/IT 6. Mr. Sengottaiyan M. ASP/MECH 7. Mr. Chandramohan V. ASP/MECH 8. Mr. Eswaran S. AP/MECH 9. Mrs. P. Devi AP/Maths (BME)	BME	Block – V (Ground Floor) Civil Lab
		CHEM	
		CIVIL	
		ECE	
		EEE	
		EIE	

**Figure B 7.2f Screenshot of Academic Audit Circular with External and Internal Auditors for Day 1**







**Dr. N.Rengarajan , B.Sc., B.Tech. M.E., Ph.D**  
PRINCIPAL

Date & Time of Audit	Audit Team	Department to be Audited	Venue
15.02.2020 (9.30 am – 12.30 pm), (1.30 pm – 4.30 pm)	<b>External Auditor</b> Dr.T.Rameshkumar, Associate Professor, Mechanical Engg., Bannari Amman Institute of Technology, Sathyamangalam.	AGRI	Block – V (Ground Floor) Civil Lab
	<b>Internal Auditors</b> 1. Dr. Murugesan A. Prof/Chem 2. Mrs. Selvi K. AP/Civil 3. Mrs. Sasirekha S. ASP/CSE 4. Mrs. Amutha R AP/MATHS(Civil/Chem) 5. Mr. Prabhakaran G. AP/ECE 6. Mrs. Vijayalakshmi R. AP/EEE 7. Mr. Arun Kumar V. AP/EEE 8. Mrs. Kavitha S. AP/CSE 9. Dr. Sukumar P. Prof/ECE 10. Mr. Ganesh R.M. AP/EIE 11. Ms.Jayanthi P. AP/CHEM(Civil/CSE/EEE)	CSE	
		IT	
		MECH	
		MBA	
		MCA	
Overall Coordination	Dr. M. Easwaramoorthi, Dean – MECH. Dr. V. Manimegalai, Prof/MBA Ms. N. Zahira Jahan, ASP/MCA		

Hence, all the Heads/Deans of the Departments are requested to inform the faculty members to keep the documents ready for the audit.

*[Signature]*  
11/2/2020

*[Signature]*  
PRINCIPAL

Figure B 7.2g Screenshot of External and Internal Auditors for Day 2





## NANDHA ENGINEERING COLLEGE (Autonomous)

Affiliated to Anna University Chennai + Approved by AICTE+ Accredited by NBA-New Delhi  
Pitchandampalayam (P.O), Vaikkalmedu , Erode-Perundurai Road, ERODE –638 052.  
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Website : [www.nandhaengg.org](http://www.nandhaengg.org)

E.Mail: [info@nandhaengg.org](mailto:info@nandhaengg.org)

**Dr. N.Rengarajan , B.Sc., B.Tech. M.E., Ph.D**  
**PRINCIPAL**

**NEC/Cir/2019-20/AAC017**

Date: 10.03.2020

Time : 03.00 PM

### CIRCULAR

Classification	ROUTINE	√ IMMEDIATE
Academic	Originator : PRINCIPAL	Circulated to : Deans and HODs

**Sub: 2019-2020 Academic Audit (Odd Semester) Report – Reg.**

\*\*\*\*\*

With reference to the circular NEC/Cir/2019-20/AAC016, a team of faculty members with external members conducted auditing on 14.02.2020 & 15.02.2020 for the academic year 2019-2020 (Odd Semester). The discrepancies observed during the audit are list below and the observations of external members are enclosed herewith.

S. No.	Documents Audited	Details of Courses Audited	Nature of Discrepancy
1	Course Coordinator Meeting Minutes	IV Mech - Project Phase – I Faculty: Mr. M. A. Omprakas Mr. M. Mohammed Ajmal Mr. B. Velliyangiri	Only Course Coordinator Meetings Circular available. Minutes of meeting not available.
2	Log Book	III Agri – Irrigation and Drainage Engineering Faculty: Mr. R. Jeya Prakash	Time Table miss match. Attendance entry for long absent is not mentioned.
3	Course File	II Chem – Chemical Analysis Lab Faculty: Mr. S. Pandiarajan  III ECE – Database Systems Concepts Faculty: Ms. Dhivya	Course File not submitted
4	Course File (Course End Survey)	II Civil – Fourier Series and Partial Differential Equations Faculty: Mrs. J. Amutha Praba	No Course End Survey
5	Course File (Document incomplete)	I ECE – Python Programming Faculty: Mr. Yuvaraj	Document such as log book, lesson plan, name list, continuous assessment mark statement and attainment are not filed in course file for ECE-A.
6	Course File (Lecture Notes/PPT)	III Mech – Micro Electro Mechanical Systems Faculty: Mr. A. Karthy Mr. K.K. Elango	Lecture Notes and PPT are not filed
7	Question Paper and Key	II BME – Engineering Mechanics for Bio-Medical Engineers Faculty: Mr. M. Sampath Kumar  III Agri – Irrigation and Drainage Engineering Faculty: Mr. R. Jeya Prakash	Not Mentioned in the question HoT type or not  RECAT answer key not filed.



8	Adherence to Bloom's Taxonomy	<p>III Chemical – Chemical Reaction Engineering Faculty: Dr. A. Murugesan</p> <p>III Chemical – Chemical Equipment Design-I Faculty: Ms. T. Poornima</p> <p>III Chemical – Chemical Process Industries Faculty: Mr. K. Rajasekaran</p>	Not in Adherence to Bloom's Taxonomy
9	Booklet	<p>II ME(ST) – Design of Substructures Faculty: Mrs. S. Tharanya</p>	Name of faculty and signature are not written on answer booklets.
10	Review of Answer Scripts	<p>III Civil – Railways, Airports, Harbour Engineering Faculty: Mr. K. L. Ravisankar</p> <p>III Civil – Housing, Planning and Management Faculty: Mr. T. Vinothkumar</p> <p>IV EEE – PLC and Automation Faculty: Mr. T. Jaya Kumar</p> <p>IV EEE – Electric Drives and Control Faculty: Dr. G. Ramani</p> <p>IV EEE – Renewable Energy Technology Faculty: Mrs. C. Pratheeba</p> <p>I Chemical – Problem Solving and Python Programming Faculty: Mr. V. Manimaran</p> <p>III Chemical – Petroleum Refining Engineering Faculty: Mr. Sakthisaravanan</p> <p>III Chemical – Chemical Process Industries Faculty: Mr. K. Rajasekaran</p>	Comments not written in answer booklet.
11	Attainment	<p>II Civil – Fourier Series and Partial Differential Equations Faculty: Mrs. J. Amutha Praba</p>	End Semester Attainment not found
12	PO, PSO, CO	<p>IV EEE – PLC and Automation Faculty: Mr. T. Jaya Kumar</p> <p>IV EEE – Electric Drives and Control Faculty: Dr. G. Ramani</p>	Attainment of PO, PSO not found. Mapping of CO, PO and PSO – Average Values are incorrect
		<p>IV EEE – Renewable Energy Technology Faculty: Mrs. C. Pratheeba</p>	Mapping of CO, PO and PSO – Average Values are incorrect

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13	Statement of Continuous Assessment (CA) marks	II Civil – Fourier Series and Partial Differential Equations Faculty: Mrs. J. Amutha Praba	Mark statement not found.
14	CAT Mark Statement	IV Civil – Municipal Solid Waste Management Faculty: Mr. M. Yeswanth	Booklet is available for the student 16CEL03, but in CAT-3 mark statement it is specified as Absent.
15	Feedback	IV EEE – PLC and Automation Faculty: Mr. T. Jaya Kumar  IV EEE – Electric Drives and Control Faculty: Dr. G. Ramani	Individual feedback form not filed.
16	Experiment Mark Split up statement	III IT – Computer Graphics and Multimedia Lab Faculty: Ms. P. Dhivya Ms. G. Suganya  III IT – Internet & Web Programming Lab Faculty: M. N. Shrigowtham  II Chemical – Fluid Mechanics Lab Faculty: Mr. K. Rajasekaran	Experiment-wise Split up marks not filed.
17	Lesson Plan / Cycle of Experiment	I Chemical – Problem Solving and Python Programming Faculty: Mr. V. Manimaran  II Chemical – Fluid Mechanics Lab Faculty: Mr. K. Rajasekaran	Cycle of Experiments not filed.
18	One Credit Course	IV Mech – Geometric Dimensioning & Tolerancy Faculty: Mr. Chandramohan V.  III Mech – Statistical Process Control Faculty: Mr. Chandramohan V.	File has not maintained properly. Contents are not arranged properly.
		II Civil – Preparation of Building Plan Faculty: R. Pradheepa  III Civil – Elevation Rendering and Walk through using Architectural Software Faculty: R. Pradheepa	Attendance and Name list are not enclosed.
19	Repeat/Redo	IV Mech – Subtractive Manufacturing Processes Laboratory Faculty: K. Ganesan	File not shown

Hence, Heads of the departments are requested to correct the discrepancies and submit the action taken report on or before 16.03.2020.



PRINCIPAL

  
16/03/2020

Figure B 7.2h Summary of Academic Audit Report



## NANDHA ENGINEERING COLLEGE, (Autonomous)

ERODE-638 052

Academic Audit Report 2019-2020 (Odd Semester) (14.02.2020)

**Observations:**

1. Audit conducted for BME, Chemical, Civil, ECE, EEE and EIE.
2. Sample Course files of each year (I, II, III, IV) for all the programmes selected for auditing.
3. Course files are well prepared and maintained as per the course index format.
4. Lesson Plan and question papers are well prepared.
5. Document retrieval is good.
6. Sample Lab course files are also verified.
7. Lesson Plan may have common format and it may have pre-approval from HoD.
8. Action taken report for slow learners may be added in the course index format and maintained.
9. Better understanding of Blooms levels for question paper is required (AICTE Examination Reforms may be referred).
10. Time Table may have common format (Some time table appear without college logo, etc.,)
11. For assessment of laboratory courses Rubrics may be followed (AICTE Examination Reforms may be referred).
12. Batch split-up for cyclic experiments and course coordinator meeting minutes may be included in lab course file.
13. More concentration is required on CO and PO mapping.
14. Minimal errors in CO, PO and PSO attainment to be corrected.
15. In course file, repeated data may be consolidated into single document and paper usage may be minimized.

  
4/12/2020  
Dr. S. J. Suji Prasad

Associate Professor-EIE

Kongu Engineering College, Erode

**Figure B 7.2i Observations by External Academic Auditor 1 for Day 1**

## OBSERVATIONS DURING EXTERNAL AUDIT ON 15.02.2020

Name of the Auditor: Dr T Ramesh Kumar, ASP/MECH, BIT

1. Common subjects like English, physics, project work should have same POs & COs mapping (if the course content is same)
2. The following are observed in question papers:
  - a. Use of Bloom's Taxonomy (BT) level need to be improved
  - b. BT Level percentage is need to incorporated
  - c. Either or question should have same BT level
3. The following are observed in project:
  - a. Project assessment need to split into two categories namely Group (like project report, project work plan, methodology etc.,) and individual (Presentation, role clarity and viva) assessments.
  - b. PSOs and COs mapping should be specific to each project
  - c. Rubrics to be prepared
4. POs indicated as a to I need to be changed as 1-12 as per revised NBA format. PSOs can also be included in the same table.
5. In all laboratory courses rubrics need to be prepared and the mark should be allotted as per rubrics only
6. Identified slow learners / weak students should be trained in the respective COs
7. Feedback of course end survey need to addressed in future

  
Dr T Ramesh Kumar

Figure B 7.2j Observations by External Academic Auditor 2 for Day 2



**Department Monthly presentation:**

A presentation is conducted once in every month with principal and all the department heads. Each department head presents their department's activities in the monthly presentation in front of principal and all other department heads. The progress of every department is discussed in this presentation.



# Nandha Engineering Coll (Autonomous)

## MONTHLY REVIEW

### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

#### STUDENTS PERFORMANCE

Success rate without backlogs in any semester/year


Batch	Students Strength	Number of students who have graduated <b>without backlog</b> semester/year of study		
		I Year	II Year	III Year
2021-25	50			
2020-24	47	45		
2019-23	98	49	65	
2018-22	84	41	52	51
2017-21	100	44	48	46
2016-20	61	23	26	24

Figure B.7.2k Sample monthly department presentation



**Department Appraisal-Presentation to the management:**

A meeting with department heads, the principal, and management is held once a year to discuss the progress of the departments. The principal will report to management on the progress of all departments. The sample annual presentation is shown below.

 **NANDHA ENGINEERING COLLEGE (Autonomous), ERODE - 638 051**  
**DEPARTMENT APPRAISAL - ANNUAL PRESENTATION - June 2018 to May 2019**

S.No.	Item	Target	Target/ Faculty	ECE	CSI	EEE	EIE	IT	CIVIL	MECE	AGRI	CHEMICA
			141	78	19	14	6	14	13	28	3	3
	<b>No. of Students in each Department</b>		1630	405	491	163	71	197	360	156	105	81
1.	<b>Current semester results (OOD &amp; Even) (No. of Students Pass / No. of Students Appeared)</b>	I year (I Sem)	59%	83/81=78%	89/118=77%	42/55=76%	-	42/50=84%	14/20=70%	47/67=70%	33/43=77%	11/29=65%
		I year (II Sem)	55%	57/80=71%	85/113=75%	49/55=89%	-	41/50=82%	9/17=53%	40/67=60%	33/43=77%	11/28=68%
		II yr (III sem)	59%	74/107=69%	62/119=57%	74/92=80%	20/23=87%	32/54=59%	16/52=31%	11/9/14=66%	43/60=72%	31/58=64%
		II yr (II sem)	65%	79/104=76%	73/117=62%	68/89=76%	17/23=74%	43/54=80%	32/52=61%	11/4/14=62%	45/60=75%	41/53=77%
		III yr (V sem)	89%	70/83=84%	10/00=18%	50/60=83%	15/20=75%	37/45=82%	14/56=25%	13/6/17=76%	-	-
		III yr (VI sem)	82%	76/94=81%	69/85=81%	41/53=77%	17/20=85%	44/45=98%	18/52=35%	13/6/18=76%	-	-
		IV yr (VII sem)	89%	111/123=90%	16/9=18%	100/114=88%	26/31=84%	38/47=81%	10/6/14=84%	18/19=84%	-	-
		Passed out (VII sem)	95%	111/123=90%	34/34=100%	111/114=97%	36/31=97%	45/47=96%	130/114=97%	100/100=100%	-	-
2.	<b>% of All clear students (No. of Student All clear / No. of Students Appeared)</b>	I yr (I to I sem)	-	83/81=78%	89/118=77%	42/55=76%	-	42/50=84%	14/20=70%	47/67=70%	33/43=77%	11/29=65%
		I yr (I to II sem)	59%	57/80=71%	84/113=74%	45/55=82%	-	41/50=82%	9/17=53%	38/67=57%	33/43=77%	11/28=64%
		II yr (I to III sem)	-	67/107=63%	65/119=54%	66/92=72%	13/23=56%	25/54=46%	12/52=23%	10/11/4=51%	49/60=82%	31/58=53%
		II yr (I to IV sem)	69%	70/104=67%	67/117=57%	61/80=76%	15/23=65%	33/54=61%	11/52=21%	06/11/4=51%	43/60=72%	31/58=63%
		III yr (I to V sem)	-	73/91=80%	55/90=61%	46/60=77%	13/20=65%	34/45=76%	16/52=31%	10/4/17=59%	-	-
		III yr (I to VI sem)	89%	74/94=79%	61/89=68%	38/53=72%	15/20=75%	41/45=91%	13/52=25%	11/8/18=61%	-	-
		IV yr (I to VII sem)	85%	102/123=83%	17/9=19%	93/114=82%	23/31=74%	38/47=81%	10/6/14=84%	13/19=68%	-	-
		Passed out (I to VII sem)	95%	107/123=87%	34/34=100%	93/114=82%	27/31=87%	41/47=87%	106/114=93%	136/136=100%	-	-
3.	<b>Placement by Departments</b>	<b>Absent 25% of the total candidates should be placed by department faculty (Min salary should be Rs.10000)</b>	12/6	16/24	1/1	7/11	4/7	2/5	51/25	102/81	NA	NA
4.	<b>% of Placement</b>	<b>Student placed by P&amp;T</b>	-	51/95	10/40	33/44	5/6	14/18	-	17/23	NA	NA
5.	<b>No. of students clearing competitive exams (GATE, INPSC &amp; Bank)</b>	<b>3/intake/year/department (Applied) (241-18)</b>	26	4	1	3	1	-	1	1	NA	NA
		<b>1/intake/year/department (Cleared)</b>	13	4 2-THRC Group IV 1-Civil Services Exam (Indian Railway) 1-IAARDCO	1 TNPSC Group IV	3 2-TANGEDCO 1-Postales	-	-	1 (TNPSC, Group IV)	-	NA	NA





S.No.	Item	Target	Target/ Faculty	ECE	CSE	EEE	EIE	IT	CIVIL	MECH	AGRI	CHEMICAL	MCA	MBA	Consolidated
			141	25	28	14	6	14	13	28	3	3	7	9	141
No. of Students in each Department			249	407	423	263	74	297	260	656	106	88	83	73	2629
8.	Consultancy	Rs.1,00,000 per year	Rs.7.9 Lakhs	Rs. 1,44,737	Rs.73,500	-	-	-	Rs. 2,23,000	Rs. 20,000	-	-	Rs.15,000	Rs.28,000	5.05 / 7.0 L
9.	Faculty trained by Industry	1/ intake/ year (Min 3 days)	13	6	6	2	4	5	2	8	-	1	-	-	34/13
10.	Skill up-gradation (Outside Nandha) (Workshops/Seminars/ FDP in IIT/ NIT/ Leading Colleges)	2 intake	26	2 - CIT 2 - AICTE (FDP) 4 - IITM	2 - CIT 1 - IITM	1 - NIT 2 - NIT 1 - Meqco 2 - IIT	1 - FDP (AU) 1 - Manipal	1 - CIT 1 - IIT	1 - PSG Tech 3 - NUCMAR 1 - CIT 2 - FDP (AU) 1 - IISC	1 - NIT	1 - IITB	1 - AU	-	1 - IITM 1 - PSG Tech 1 - CIT	35/26
11.	Award (Dept & Faculty + Student)	Award should be applied in 4 different categories	Dept (9)	-	-	-	-	-	1 - ICT (Out standing Student dayar award)	-	-	-	-	-	1/9
			Faculty (13)	9 1 - Dr. S. Kavita 6 - (J.C.V.P.G.P.M.S.S.V.S & K.S) 1 - PP	1 - ICT 1 - IETE	2 - BFA 1 - YFA	-	-	1 - Dr EEM	10	-	-	4	-	20/13
			Student (26)	14 ICT Innovator - 3 IIT-1 IICDC-3	3 - ICT 1 - ISTE 1 - CSI	4 - ICT	-	-	1 - AICTE - ISTE	4	-	-	2	-	30/26
Award Received	1 /Intake	13	8 1 - Dr. S. K. 6 - Nos 1 - PP	1 - IETE	1 - Krishna Gandhi (YFA)	-	-	3 1 - Dr.EEM (Best Faculty Award) 1 - ICT (Outstanding Student Chapter Award) 1 - ISTE (Best Student Award)	1 - ISTE	-	-	2	-	16/13	
12.	Project to Product conversion	No. of products	10	2	-	2	1	1	3	1	-	-	-	-	10/10
13.	Publication by faculty	2 / intake (Paper can be published in Journal or Conference conducted outside Nandha)	26	13	5	2	-	2	6	-	-	-	-	1	28/26
	Paper Presented in IIT/NIT/Abroad/ Leading Colleges	1 / Intake	10	1 - IITM	-	-	-	-	-	1 - IITM	-	-	2	-	4/10
14.	Journal Publication	Announce as per Anna University, Chennai	-	2	2	-	-	-	1	-	-	-	-	-	5
15.	Funding proposals Applied (Workshop/Seminar)	1 / faculty / year	141	44	3	19	3	6	6	10	3	3	4	8	109/141
16.	Funding Proposals Applied (Research Projects)	1/Intake	10	3	-	2	-	-	-	1	-	1	-	-	7/10
17.	Funding Proposals Acceptance	Fund received from funding agencies	50 Lakhs	5 Rs.7,50,000 (PMKVY) Rs.93,500 (PMKVY) Rs.1,85,000 (AICTE-STTP) Rs.40,000 (ISRO)	Rs.5,00,000 (AICTE-Conference)	Rs.20,000 (CSIR) Rs. 30,000 (CSIR)	-	Rs.2,21,000 (AICTE-STTP)	4 Rs.7,95,000 (PMKVY) Rs.15,000 (CSIR) Rs.1,80,000 (AICTE-STTP)	2 Rs.7,50,000 (PMKVY)	-	-	-	Rs.482,000 (AICTE - FDP) Rs.31,000 (DST) Rs.59,000 (NHRC)	44.0 / 50.0 L (Total) (Less: Bank of India Allowance)



S.No.	Item	Target	Target/ Faculty	ECE	CSE	EEE	EIE	IT	CIVIL	MECH	AGRI	CHEMICAL	MCA	MBA	Consolidated
			141	15	18	14	6	14	13	18	3	3	7	9	141
	No. of Students in each Department		2629	497	423	263	54	197	260	656	105	88	83	73	2629
18	MoU (Preferably in CII Member Company)	Signed in the current academic year 1 / Dept / Year & 5 / across MoU	11	2	1	2	1 in progress	1	1 in progress	1 in progress	-	3	-	-	13/11
	Activities	2/Year	22	3	1	2	1	1	2	1	-	2	-	-	13/12
20	Student Projects (TNSCT & Others)	1/3 of Faculty Strength	47	16 (Rs.7,500)	8	4	9	4	22	18 (Rs.7,500)	-	-	10	NA	91/47
21	Patents / product / Copyright by Student (1/ dept/ year)	Applied	-	-	-	-	-	-	-	-	-	-	-	-	-
		Receipt	-	-	-	-	-	-	-	-	-	-	-	-	-
22	Completion of Online Certification Course @ IIT/NPTEL/SWAYAM (Faculty & Student)	1 / Faculty / Year	-	35 Nos - Completed	6 Nos - Completed	8 Nos - Completed	2 Nos - Completed	4 Nos - Completed	12 Nos - Registered	2 Nos - Completed	-	-	-	2 Nos - Completed	49+5 (English) 27 NPTEL 27 IITB
		Students	-	2 Nos - Completed	2 Nos - Completed	-	-	-	13 Completed	3 Nos - Completed	-	-	-	1 Nos - Completed	21
23	Waiving of students in Premier Institutions like NITs, IITs, PSG, VIT, Anna University, etc		25	9	-	-	-	-	1	5	-	-	-	-	15/25
24	Alumni Visit	Min. 10 interaction / year (minimum Alumni meet / year 10% of the Alumni in each dept should come for the meet)	90	16	11	8	7	5	10	5	-	5	9	10	81/90
25	Association Activity	Intra Departmental Meet	1	1	1	1	-	1	1	-	-	1	-	1	11/8
		Inter Departmental Meet	-	-	1	1	-	1	-	-	-	-	-	-	1
		Academic Seminar - 02	16	2	1	1	1	1	1	1	-	-	1	-	7
		Industrial Seminar - 02	16	2	1	2	1	1	1	4	2	-	2	-	2
		Workshop - 01	8	1	2	-	-	1	1	5	6	-	-	-	4
Symposium - 01	8	1	1	1	1	1	1	1	-	-	-	1	-		
26	Industrial Project (Students should stay in the industry for min 15 days and do the project)	5 / intake / year	13 x 5 65	2 Batch (08 Students)	4 Students	8 Batch (21 Students)	8 Batch (22 Students)	-	19 Batch (72 Students)	-	-	-	35	44	215/65
27	Club Professional society - 1 Social club - 1 Dept. specific club - 1	1 Activity / Year / Club	24	3	4	2	1	2	4	2	-	1	-	3	11/24
28	Staff Development Programme / Workshop / Seminar	Outstate participants should also be present (1/ year / dept)	10	1	2	2	-	1 AICTE Sponsored	2 CSIA & AICTE Sponsored	-	-	-	-	-	9/10
29	Book Publication	-	5	2 (Reviewed)	1 (Reviewed)	2 (Reviewed)	-	-	-	-	-	-	-	1	6/5
30	Newsletter	1/year	10	1	1	1	-	1	1	-	-	-	1	-	6/10
31	News in Professional Magazines / News Paper	-	15	3	1	1	-	3	10	-	-	-	-	2	15/25
32	Parents Visit	1/year	-	I-75 II-47 III-51	I-87 II-54 III-62	I-87 II-34 III-33	II-7 III-19	I-43 II-20 III-27	I-11 II-40 III-24	I-38 II-69 III-58	I-32 II-30	I-16 II-22	3	24	-

Figure B.7.2l Sample department appraisal-annual presentation



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### 7.3 Improvement in Placement, Higher Studies and Entrepreneurship (10)

Assessment is based on improvement in:

Self-Assessment(10)

*Placement: number, quality placement, core industry, pay packages etc.*

*Higher studies: admissions in premier institutions*

*Entrepreneurs*

Students placement ratio, placement details, number of companies visited, type of company visited and salary package are described in the below listed tables and figures

**Table B. 7.3.a Placement Ratio**

Year	Number of students appeared in final examinations	Number of students graduated out of students appeared in final examination	Number of students placed	Placement Ratio
CAY 2021-2022	77	77	66	85
CAY m1 2020-2021	87	87	72	83
CAY m2 2019-2020	58	58	47	81
CAY m3 2018-2019	114	114	89	78



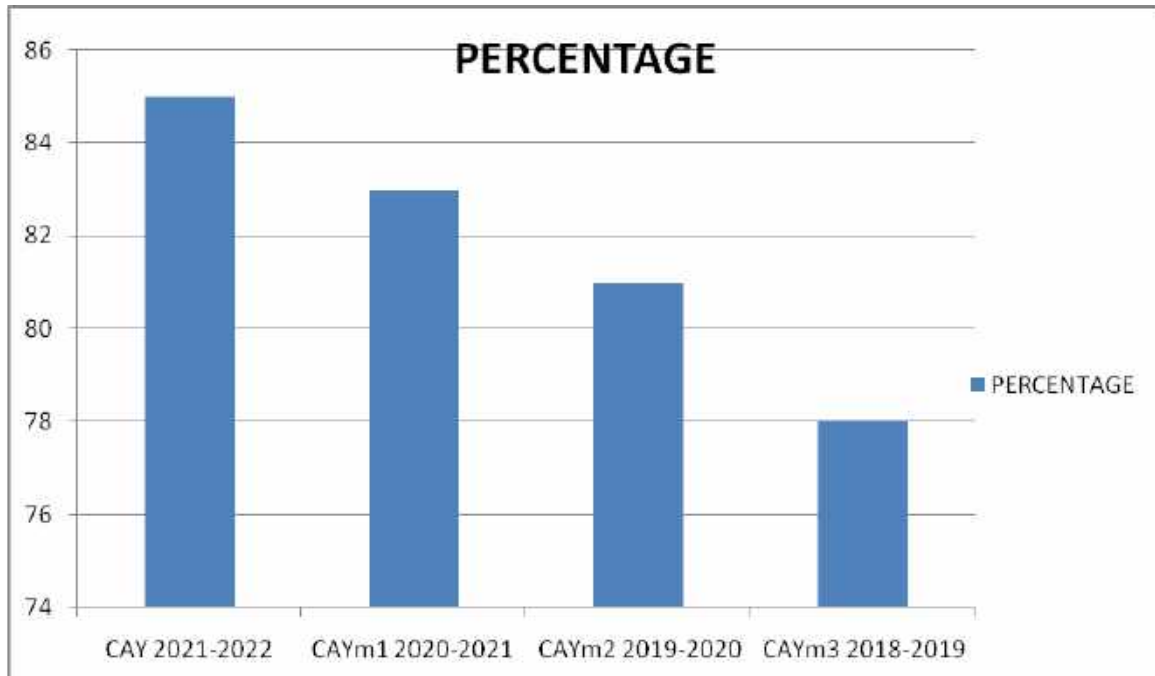


Figure B.7.3.a Placement Ratio

Table B. 7.3.b Number and Type of Companies visited

Year	Total Number of Company Visited	No. of IT Companies	No. of Core Companies
CAY 2021-2022	30	25	5
CAY m1 2020-2021	23	13	10
CAY m2 2019-2020	18	10	8
CAY m3 2018-2019	15	8	7

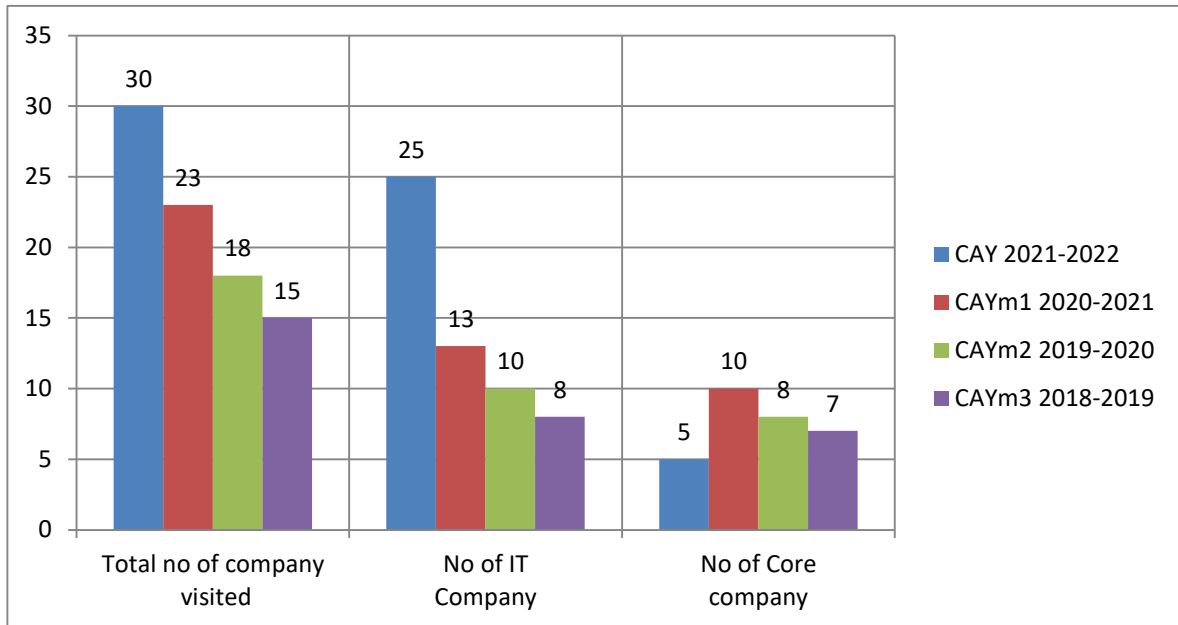


Figure B.7.3.b Number and Type of Companies visited

Table B. 7.3.c Placement Details

Year	Total Strength	No. of Students Appeared for Final Examinations	No. of Students Placed	No. of Students Placed in IT Based Companies	No. of Students Placed in Core Companies
CAY 2021-2022	77	77	66	50	16
CAY m1 2020-2021	87	87	72	46	26
CAY m2 2019-2020	58	58	47	27	20
CAY m3 2018-2019	114	114	89	40	49



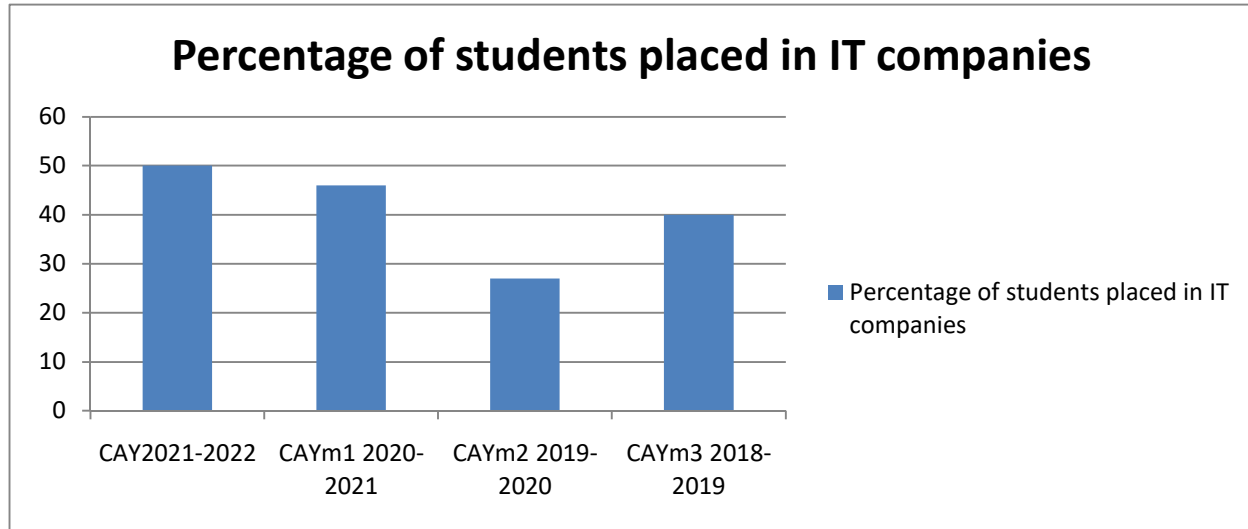
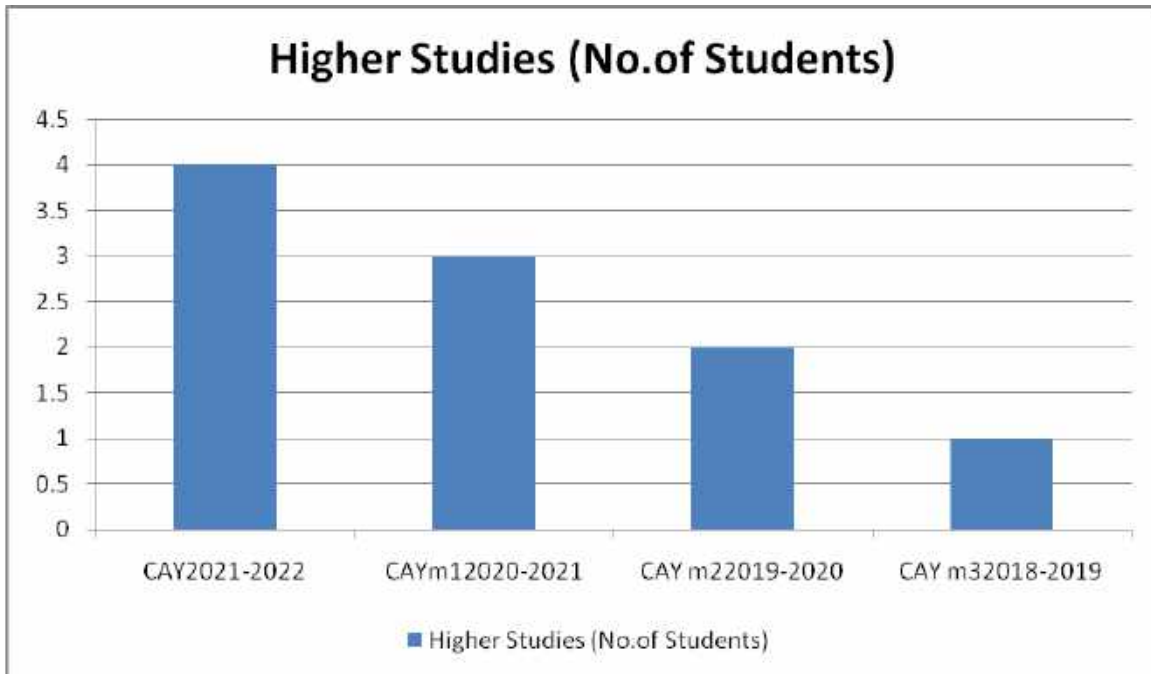


Figure B. 7.3.c Percentage of Students Placed in It Based Companies

Table B.7.3.d Performance in Competitive Examinations and Higher Study Details

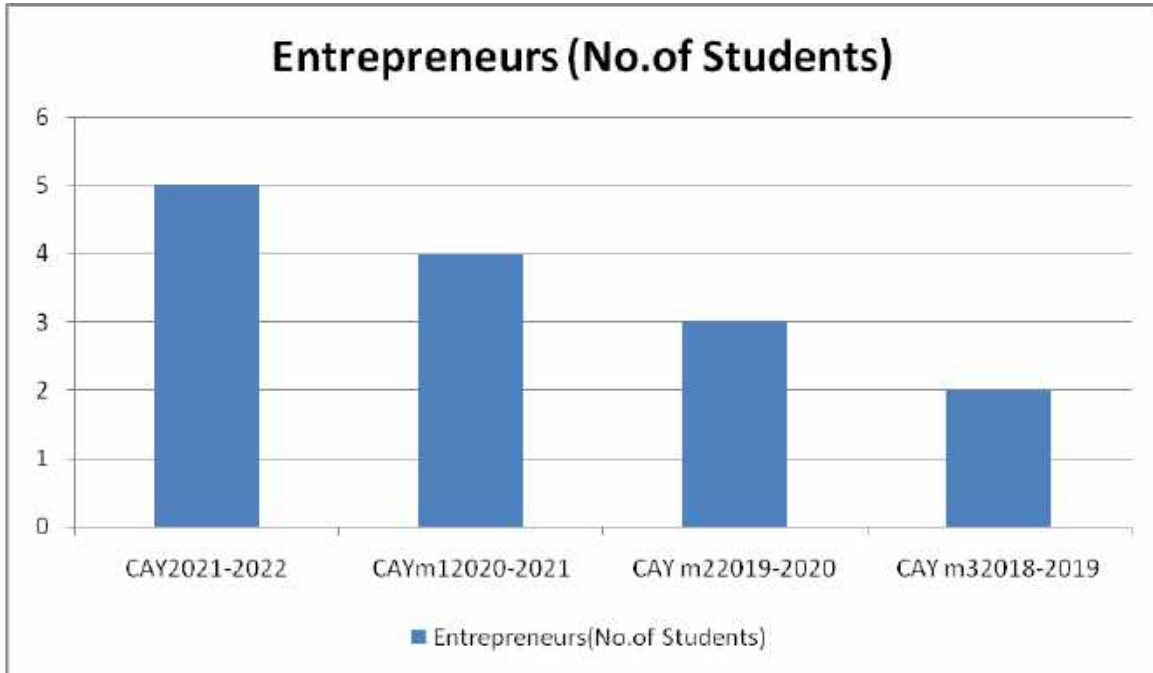
Competitive Examinations	No. of Students Pursuing Higher Studies	GATE		IELTS/ TOEFL		GRE		TANCET		TNPSC		No. of students admitted in Premier Institutions (MS, MBA, M.E, M.Tech)
		Appeared	Cleared	Appeared	Cleared	Appeared	Cleared	Appeared	Cleared	Appeared	Cleared	
CAY 2021-2022	04	-	-	-	-	-	-	-	-	-	-	04
CAY m1 2020-2021	03	-	-	-	-	-	-	-	-	-	-	03
CAY m2 2019-2020	02	-	-	-	-	-	-	-	-	-	-	02
CAY m3 2018-2019	01	-	-	-	-	-	-	-	-	1	-	01



**Figure B. 7.3.d. Higher Studies Details**

Year	Entrepreneurs (No. of Students)
CAY (2021 -22)	05
CAY m1(2020 -21)	04
CAY m2 (2019 -20)	03
CAY m3 (2018 -19)	02

**Table B.7.3.e Entrepreneur Details**



**Figure B.7.3.e Entrepreneur Details**

**7.4 Improvement in the quality of students admitted to the program (20)**

**Self Assessment (20)**

*Assessment is based on improvement in terms of ranks/score in qualifying state level/national level entrances tests, percentage marks in Physics, Chemistry and Mathematics in 12th Standard and percentage marks of the lateral entry students.*

**Table B.7.4a Improvement in the quality of students admitted to the program**

Item		CAY (2021- 2022)	CAYm1 (2020- 2021)	CAYm2 (2019- 2020)	CAYm3 (2018- 2019)
National Level Entrance Examination	Score	Not Applicable	Not Applicable	Not Applicable	Not Applicable



State/ Institute / Level Entrance Examination /Others (TNEA-Tamil Nadu Engineering Admissions)	OpeningScore /Rank	96	80.50	91.33	96.33
	Closing score/ Rank	62.33	43.5	41.67	40.33
Name of the Entrance Examination for Lateral Entry or lateral entrydetails (DOTE: Directorate of TechnicalEducation)	Opening Score /Rank	95.57	92.30	96.67	89.86
	Closing score/ Rank	73.89	68	63.77	62.69
Average CBSE/ Any other Board Result of Admitted Students (Physics, Chemistry & Mathematics)		78.81	56.00	59.03	65.08

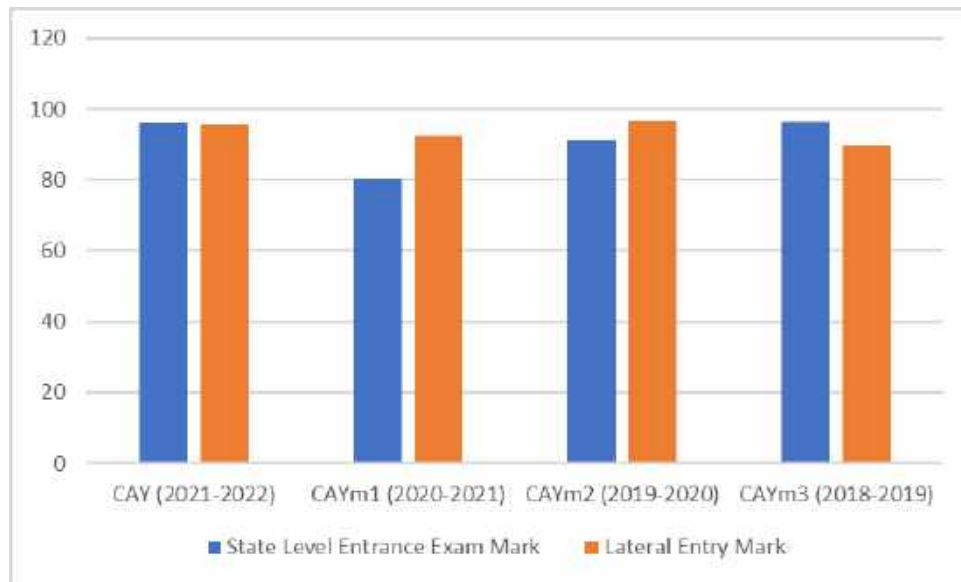
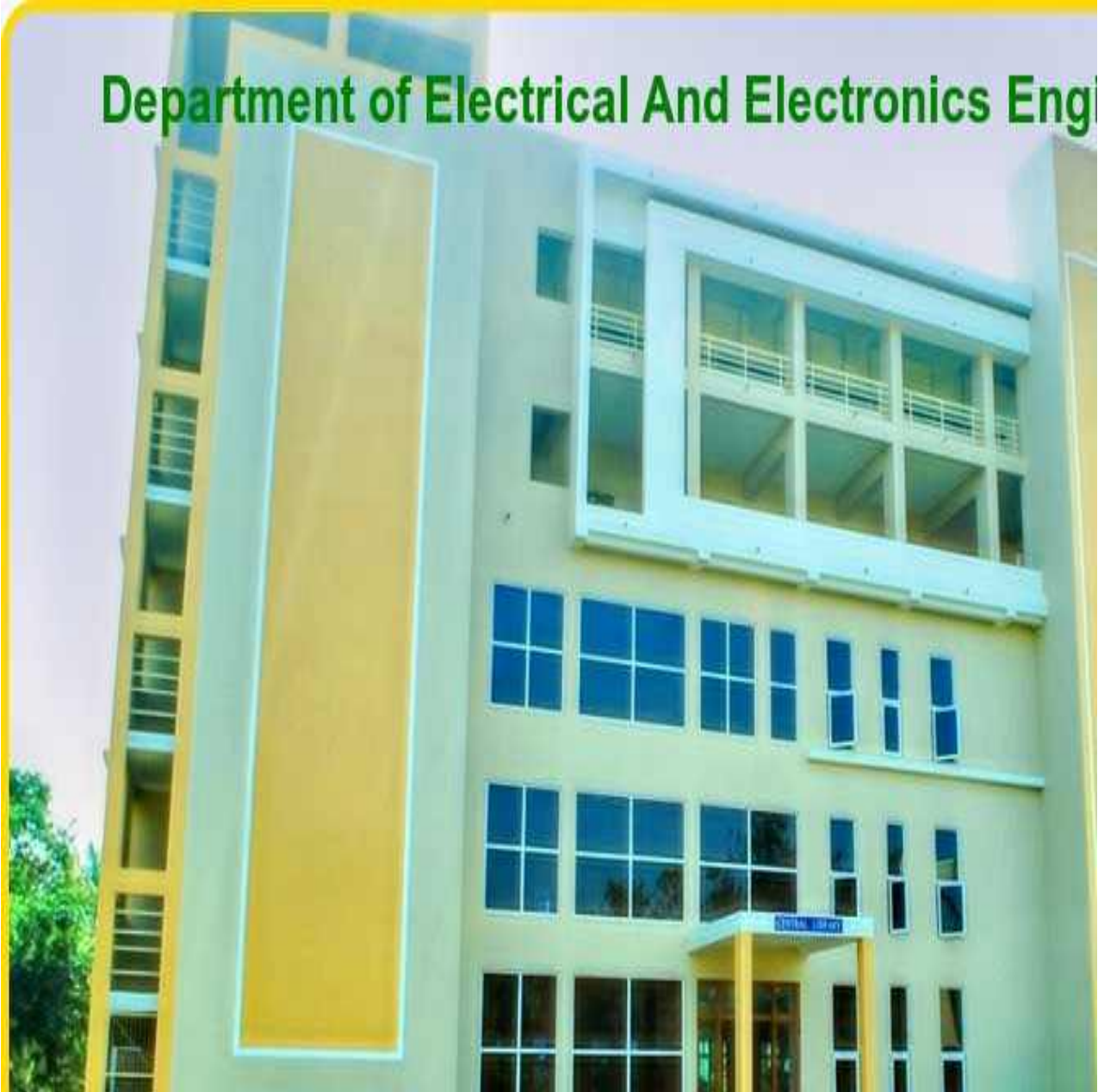


Figure B.7.4.a Continuous Improvement in the Admission



## CRITERION 8

Department of Electrical And Electronics Engi



<b>CRITERION 8</b>	<b>First Year Academics</b>	<b>50</b>
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### 8.1 First Year Student-Faculty Ratio (FYSFR) (5)

Data for first year courses to calculate the FYSFR:

**Table B.8.1. First Year Student-Faculty Ratio**

Year	Number of students (approved intake strength)	Number of faculty members (considering fractional load)	FYSFR	*Assessment = (5 × 20) / FYSFR (Limited to Max. 5)
<b>CAY (2021-2022)</b>	780	44.5	17.52	5.70
<b>CAYm1 (2020-2021)</b>	720	48	15	6.6
<b>CAYm2 (2019-2020)</b>	780	43	18	5.56
<b>CAYm3 (2018-2019)</b>	840	50	16	6.25
<b>Average</b>	<b>780</b>	<b>46.3</b>	<b>16.63</b>	<b>6.02</b>

\*Note: If FYSFR is greater than 25, then assessment equal to zero.

### 8.2 Qualification of Faculty Teaching First Year Common Courses (5)

Assessment of qualification =  $(5x + 3y)/RF$ ,  $x$  = Number of Regular Faculty with Ph.D.,  $y$  = Number of Regular Faculty with Post-graduate qualification  $RF$  = Number of faculty members required as per SFR of 20:1, Faculty definition as defined in 5.1

**Table B.8.2 Qualification of Faculty Teaching First Year**

Year	x	Y	RF	Assessment of faculty qualification $(5x + 3y)/RF$
<b>CAY (2021-2022)</b>	9	50	39	5.0
<b>CAYm1 (2020-2021)</b>	7	41	36	4.38
<b>CAYm2 (2019-2020)</b>	7	39	39	3.89
<b>CAYm3 (2018-2019)</b>	7	38	42	3.54
<b>Average Assessment</b>				<b>4.20</b>

### 8.3 First Year Academic Performance (10)

*Academic Performance = ((Mean of 1<sup>st</sup> Year Grade Point Average of all successful Students on a 10-point scale) or (Mean of the percentage of marks in First Year of all successful students/10)) x (number of successful students/number of students appeared in the examination) Successful students are those who are permitted to proceed to the second year.*

#### **Program: Electrical and Electronics Engineering**

**Table B.8.3a First Year Academic Performance**

<b>Academic Performance</b>	<b>CAY 2021-2022</b>	<b>CAYm1 2020-2021</b>	<b>CAYm2 2019-2020</b>	<b>CAYm3 2017-2018</b>
Mean of the grade point of marks of all successful students	7.20	8.49	7.37	8.01
Total Number of successful students	47	47	64	55
Total Number of students appeared in the examinations	47	47	64	55
<b>API [ X*(Y/Z) ]</b>	7.20	8.49	7.37	8.01
<b>Average API</b>	<b>7.68</b>			

**Table B.8.3b Grade point average for the Academic Year 2021-2022**

<b>S.No</b>	<b>Department</b>	<b>No of students appeared in exams</b>	<b>Number of Successful students</b>	<b>Total grade point average of all successful students</b>
1	Agricultural Engineering	44	44	7.51
2	Biomedical Engineering	33	33	7.48
3	Computer Science and Engineering	119	119	7.78
4	Chemical Engineering	30	30	6.98
5	Civil Engineering	16	16	7.25
6	Electronics and Communication Engineering	99	99	7.75
7	<b>Electrical and Electronics Engineering</b>	<b>47</b>	<b>47</b>	<b>7.20</b>
8	Information Technology	57	57	7.73
9	Mechanical Engineering	55	55	7.36
Total		500	500	78.04
<b>Mean of the grade point of marks of all successful students</b>				<b>7.44</b>
<b>Academic Performance CAY</b>				<b>7.44</b>

## Academic Year 2021-2022

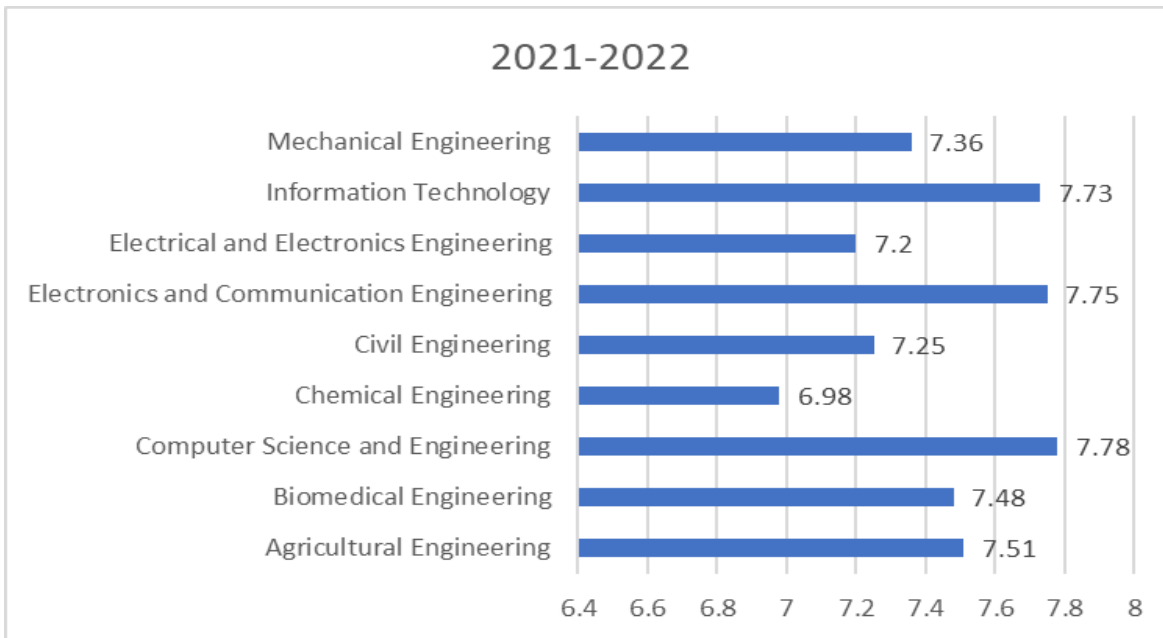
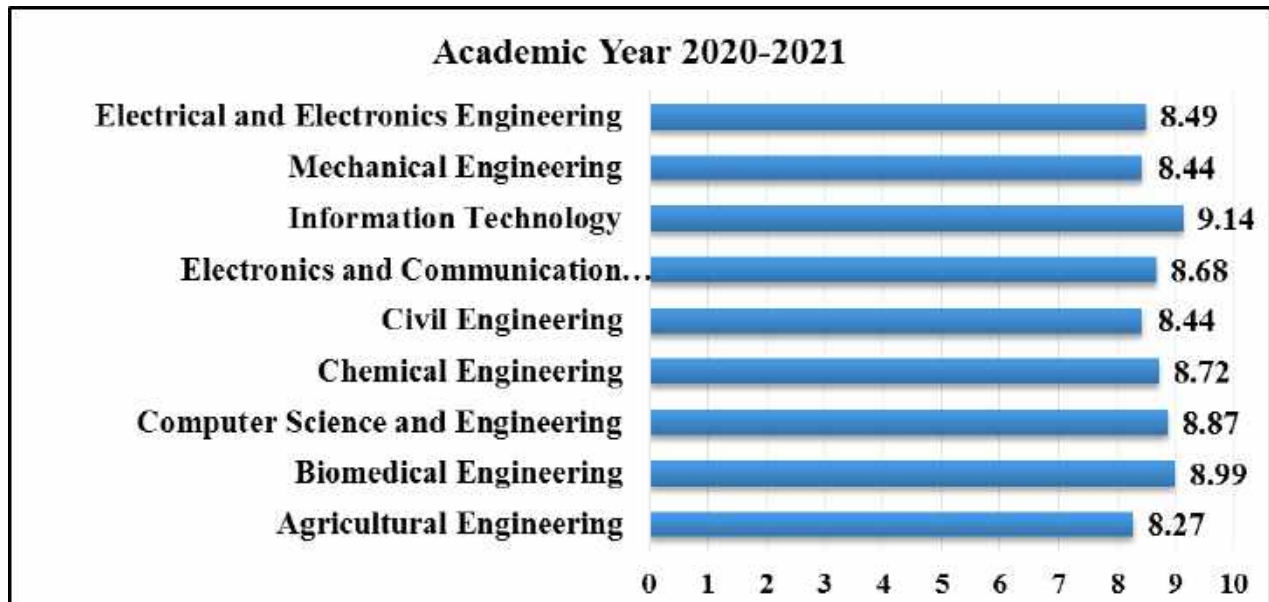


Table B.8.3b Grade point average for the Academic Year 2021-2022

S.No	Department	No of students appeared in exams	Number of Successful students	Total grade point average of all successful students
1	Agricultural Engineering	55	55	8.27
2	Biomedical Engineering	52	52	8.99
3	Computer Science and Engineering	120	120	8.87
4	Chemical Engineering	29	29	8.72
5	Civil Engineering	19	19	8.44
6	Electronics and Communication Engineering	95	95	8.68
7	<b>Electrical and Electronics Engineering</b>	<b>47</b>	<b>47</b>	<b>8.49</b>
8	Information Technology	54	54	9.14
9	Mechanical Engineering	46	46	8.44
Total		517	517	78.04
<b>Mean of the grade point of marks of all successful students</b>				<b>8.671</b>
<b>Academic Performance CAY</b>				<b>8.671</b>



**Table B.8.3b Grade point average for the Academic Year 2019-2020**

S.No.	Department	No. of students appeared in exams	Number of Successful students	Total grade point average of all successful students
1	Agricultural Engineering	49	49	8.22
2	Biomedical Engineering	40	40	7.89
3	Computer Science and Engineering	114	114	8.75
4	Chemical Engineering	36	36	7.66
5	Civil Engineering	30	30	7.06
6	Electronics and Communication Engineering	100	100	8.36
7	<b>Electrical and Electronics Engineering</b>	<b>64</b>	<b>64</b>	<b>7.37</b>
8	Information Technology	58	58	8.29
9	Mechanical Engineering	87	87	7.61
Total		578	578	71.21
<b>Mean of the grade point of marks of all successful students</b>				<b>7.91</b>
<b>Academic Performance CAYm1</b>				<b>7.91</b>

## Academic Year 2019-2020

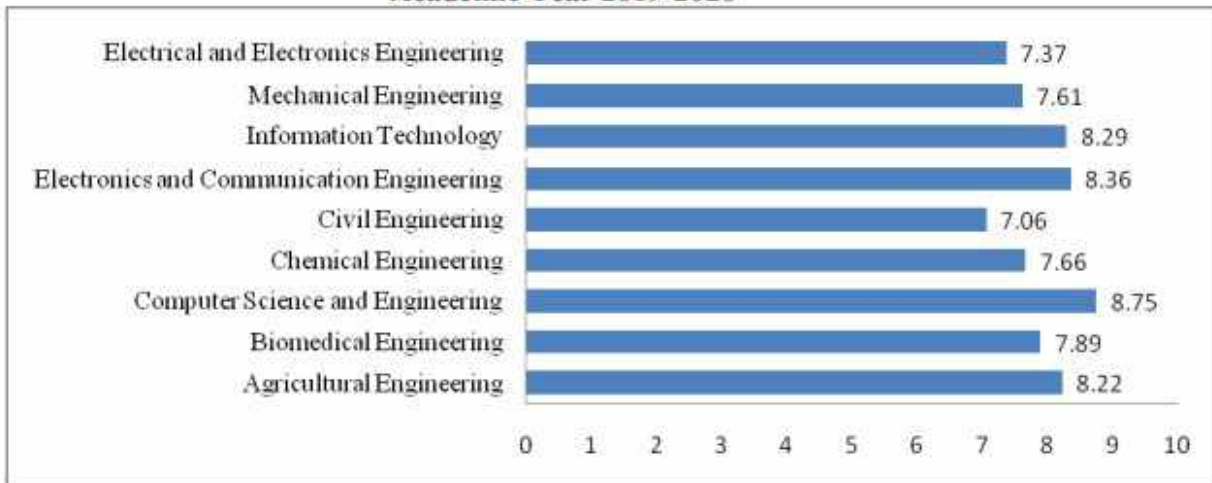


Table B.8.3c Grade point average for the Academic Year 2018-2019

S.No.	Department	No. of students appeared in exams	Number of Successful students	Total grade point average of all successful students
1	Agricultural Engineering	44	44	8.30
2	Biomedical Engineering	41	41	8.49
3	Computer Science and Engineering	117	117	8.40
4	Chemical Engineering	29	29	8.03
5	Civil Engineering	18	18	8.10
6	Electronics and Communication Engineering	80	80	8.43
7	<b>Electrical and Electronics Engineering</b>	<b>55</b>	<b>55</b>	<b>8.01</b>
8	Information Technology	50	50	7.62
9	Mechanical Engineering	71	71	7.72
Total		505	505	73.10
<b>Mean of the grade point of marks of all successful students</b>				<b>8.12</b>
<b>Academic Performance CA Ym2</b>				<b>8.12</b>

## Academic Year 2018-2019

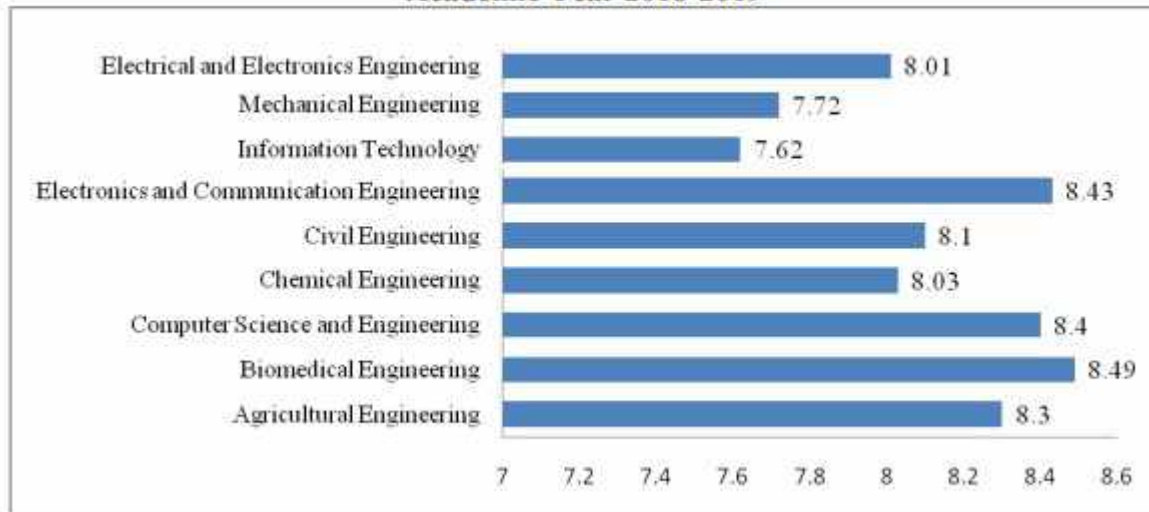
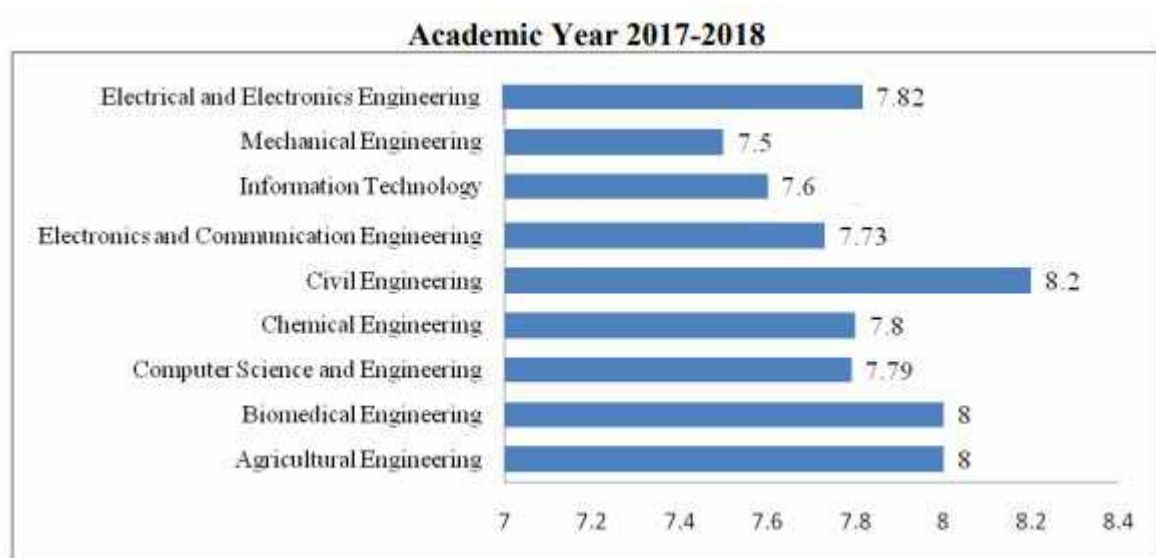


Table B.8.3d Grade point average for the Academic Year 2017-2018

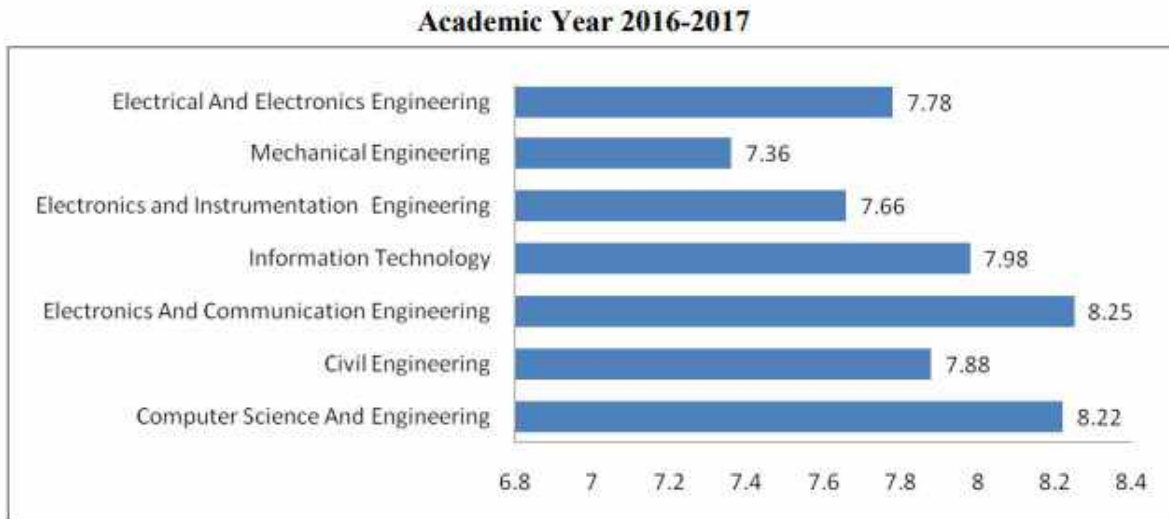
S.No.	Department	No. of students appeared in exams	Number of Successful students	Total grade point average of all successful students
1	Agricultural Engineering	60	60	8.00
2	Computer Science And Engineering	104	104	8.00
3	Chemical Engineering	57	57	7.79
4	Civil Engineering	51	51	7.80
5	Electronics And Communication Engineering	100	100	8.20
6	<b>Electrical And Electronics Engineering</b>	<b>78</b>	<b>78</b>	<b>7.82</b>
7	Electronics and Instrumentation Engineering	22	22	7.73
8	Information Technology	52	52	7.60
9	Mechanical Engineering	151	151	7.50
Total		676	676	70.4
<b>Mean of the grade point of marks of all successful students</b>				<b>7.82</b>
<b>Academic Performance CAYm3</b>				<b>7.82</b>





**Table B.8.3e Grade point average for the Academic Year 2016-2017**

S.No.	Department	No of students appeared in exams	Number of Successful students	Total grade point average of all successful students
1	Computer Science And Engineering	91	46	8.22
2	Civil Engineering	35	19	7.88
3	Electronics And Communication Engineering	82	64	8.25
4	<b>Electrical And Electronics Engineering</b>	<b>45</b>	<b>25</b>	<b>7.78</b>
5	Information Technology	41	30	7.98
6	Mechanical Engineering	151	95	7.36
7	Electronics and Instrumentation Engineering	19	14	7.66
Total		464	293	55.13
<b>Mean of the grade point of marks of all successful students</b>				<b>7.87</b>
<b>Academic Performance CAYm4</b>				<b>7.87</b>



#### 8.4 Attainment of Course Outcomes of first year courses (10)

##### 8.4.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is done (5)

*(Examples of data collection processes may include, but are not limited to, specific exam questions, laboratory tests, internally developed assessment exams, oral exams assignments, presentations, tutorial sheets etc.)*

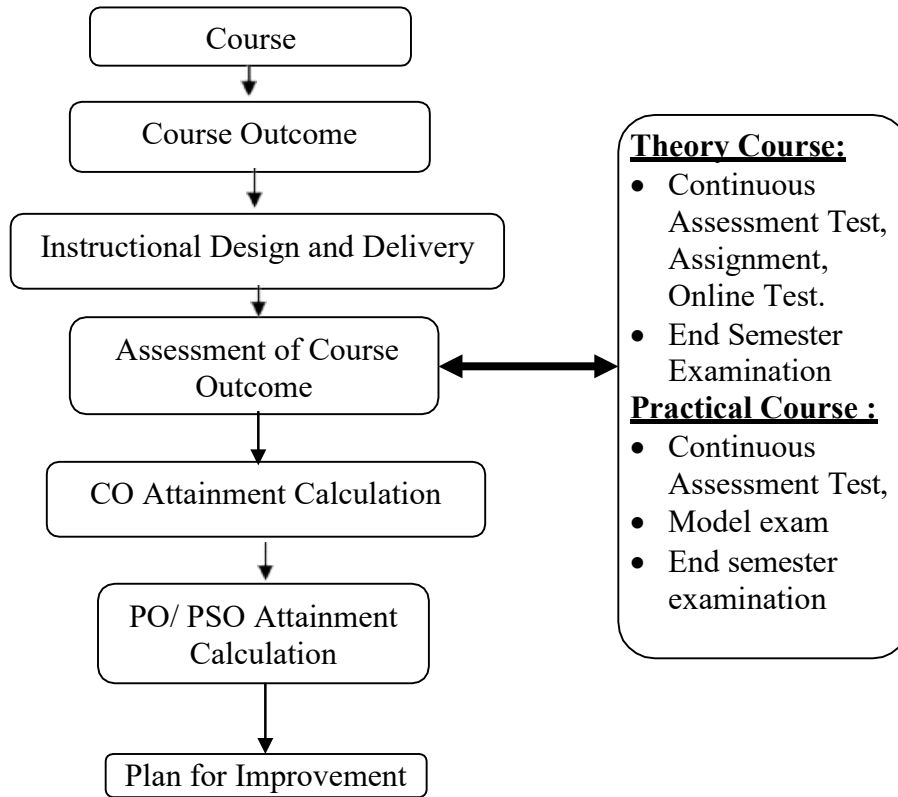
The assessment process used to gather data and evaluate the course outcomes are given below.

##### **Theory course:**

- Continuous Assessment Tests (CA test)
- Assignments
- Online Tests
- End Semester Examinations

##### **Laboratory course:**

- Continuous Assessment Tests (CA test)
- Model exam
- End semester examination.



**Table B 8.4.1a Procedure for Assessment of Courses**

S.No.	Category of Course	CA Marks	End Semester Exam (ES) Marks	Total Marks
1.	Theory course	40	60	100
2.	Embedded course	40	60	100
3.	Laboratory courses / Project work	50	50	100

The following table B.8.4.1b shows the Continuous Assessment and End semester assessment processes for Theory courses and Practical courses in R17.

**Table B 8.4.1b Continuous Assessment Process for Theory Courses in R17**

S. No	Components for CA Marks	Syllabus Coverage for the test	Duration of the test in Hrs.	Marks (max.)
1.	Continuous Assessment I	2.5 units	1.30	30
2.	Continuous Assessment II / Project Based Learning	2.5 units	1.30	

3.	Assignment/tutorials/quiz – 2 nos.	2.5 units each	-	5
4.	Online Test – 2 nos.	2.5 units each	-	5
				40

**Table B 8.4.1c Continuous Assessment for Embedded Courses in R17**

S.No.	Components for CAM	Syllabus Coverage for the test	Duration of the test in Hrs.	Marks (max.)
1	Continuous Assessment I	1.5 units	1.30	15 (Best 2)
2	Continuous Assessment II / Project Based Learning	1.5 – 3 units	1.30	
3	Continuous Assessment III	4-5 units	1.30	
4	Average of all Experiment	-	-	5
5	End Semester Exam for Lab			20
<b>TOTAL</b>				40

**Table B 8.4.1d Continuous Assessment Process for Laboratory Courses in R17**

S. No.	Components for Internal Mark	Marks (max.)
1	Record Mark(Average out of 100)	((Record Mark + Model Mark (I + II)) / 6
2	Model Exam I (Out of 50)	
3	Model Exam II (Out of 50)	
<b>TOTAL</b>		50

**8.4.2 Record the attainment of Course Outcomes of all first year courses (5)**  
**Self-Assessment (5)**

*Program shall have set attainment levels for all first year courses.*

*(The attainment levels shall be set considering average performance levels in the institution level examination or any higher value set as target for the assessment years.*

*Attainment level is to be measured in terms of student performance in internal assessments with respect the COs of a subject plus the performance in the institution level examination)*

SEMESTER I						
COURSE	End Sem Attainment	CAT Attainment	Assignment Attainment	Online Attainment	Overall Attainment	Remarks
C101 [PE-I]	3	1	—	—	2.2	Moderate
C102 [CSG]	2	2	3	2	2.05	Moderate
C103 [PE]	3	3	3	2	2.95	Substantial
C104 [AEC]	3	2	3	2	2.8	Substantial
C105 [EG]	3	2	3	2	2.8	Substantial
C106 [PP]	3	2	3	2	2.8	Substantial
C107 [ PP- LAB ]	3	3	—	—	3	Substantial
C108 [ EP - LAB]	3	3	—	—	3	Substantial
C111 [PE II]	3	1	—	—	2.2	Moderate
C112 [CALP]	1	2	3	2	1.3	Low
C113 [PS]	3	2.83	3	2.5	2.95	Substantial
C114 [EVS]	3	3	3	2	2.95	Substantial
C115[BCM]	3	2	3	2	2.8	Substantial
C116 [ECT]	3	2	3	2	2.8	Substantial
C117 [P/C- LAB ]	3	3	—	—	3	Substantial
C118 [ECT -LAB]	3	3	—	—	3	Substantial

## 8.5 Attainment of Program Outcomes from first year courses (20)

### 8.5.1 Indicate results of evaluation of each relevant PO and/or PSO if applicable (10)

#### Self-Assessment (10)

*The relevant program outcomes that are to be addressed at first year need to be identified by the institution*

*Program Outcome attainment levels shall be set for all relevant POs and/or PSOs through first year courses.*

*(Describe the assessment processes that demonstrate the degree to which the Program Outcomes and Program Specific Outcomes are attained through first year courses and document the attainment levels. Also include information on assessment processes used to gather the data upon which the evaluation of each Program Outcome is based indicating the frequency with which these processes are carried out)*

**PO/PSO Attainment: Mention first year courses****Table B.8.5.1**

SEMESTER I																
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
C101 [PE-I]	0	0	0	0	2	0	0	2	2	2	0	2	0	0	2	0
C102 [CSG]	2	2	2	2	2	2	2	0	2	0	2	0	2	2	2	2
C103 [PE]	3	3	3	3	3	3	0	2	0	0	0	3	2	2	3	2
C104 [AEC]	3	0	3	0	0	3	2	3	3	0	3	3	2	2	3	2
C105 [EG]	3	3	3	3	3	3	3	0	0	0	3	3	3	3	3	3
C106 [PP]	3	3	3	0	0	0	0	0	3	3	3	0	3	0	3	2
C107 [ PP- LAB ]	2	3	2	0	3	0	0	0	3	3	3	0	3	3	3	2
C108 [ EP - LAB ]	3	3	3	2	3	3	3	3	3	3	1	3	3	2	0	3
SEMESTER II																
C111 [PE II]	0	0	0	0	2	0	0	2	2	2	0	2	0	0	2	0
C112 [CALP]	1	1	1	1	1	1	1	0	1	0	1	0	1	1	0	1
C113 [PS]	3	2	2	3	0	0	0	3	0	0	0	3	2	1	0	2
C114 [EVS]	2	2	2	0	0	3	3	3	3	3	0	0	2	1	2	1
C115 [BCM]	2	2	3	2	2	3	2	3	3	2	3	3	0	3	0	3
C116 [ECT]	3	3	3	3	3	3	2	3	0	0	1	2	3	3	3	3
C117 [P/C- LAB ]	2	2	0	3	0	3	2	2	0	0	3	3	2	2	2	2
C118 [ECT -LAB]	3	3	3	3	3	2	3	3	3	3	1	3	3	3	3	3
Attainment out of 3	2.1	1.9	1.9	1.5	1.6	1.7	1.3	1.8	1.7	1.3	1.4	1.8	1.8	1.6	1.9	1.8
% of Attainment	69	63	64	49	54	57	45	60	56	44	46	62	61	55	64	61

**8.5.2 Actions taken based on the results of evaluation of relevant POs and PSOs (10)****Self-Assessment (10)**

(The attainment levels by direct (student performance) are to be presented through Program level Course-PO matrix as indicated)

The department takes continuous efforts towards academic excellence of students through the attainment of POs and PSOs. It challenges itself to reach new heights in all aspects related to teaching and learning.

The following table shows the details of actions taken for improving the attainment of POs and PSOs

PO	Target level	Attainment level	Observations
<b>PO1: Engineering Knowledge:</b> An ability to apply knowledge in Mathematical Problem solving, general engineering and Electrical Sciences.			
<b>PO1:</b>	60%	69%	Target Level Achieved
<b>Action taken</b>			
1 Students were motivated to visit industry to enhance their engineering knowledge. 2.Workshops were conducted with experts from Industry. 3.Students were encouraged to take up mini projects			
<b>PO2: Problem Analysis:</b> Knowledge in contemporary issues and ability to analyze a problem, identify and define the computing requirements appropriate to its solution.			
<b>PO2:</b>	60%	63%	Target Level Achieved
<b>Action taken</b>			
1. Students were asked to undergo in-plant training and internship to gain knowledge on engineering problems, and to understand and analyse the industrial activities. 2. Additional coaching classes were conducted beyond the regular planned classes 3. In addition to that tutorial hours were handled by faculty members.			
<b>PO3: Design/ Development of Solutions:</b> An ability to design system components or process to satisfy the needs of the society within realistic constrains such as economic, social, political, ethical, health, safety and manufacturing .			
<b>PO3:</b>	60%	64%	Target Level Achieved
<b>Action taken</b>			
1. Students were guided during industrial or field visit to study the real-world problems and were encouraged to give presentation about their ideas to solve them. 2.Students were encouraged to participate in National service activities and social clubs activities 3.Awareness Programs were conducted			
<b>PO4: Investigation of Complex Problems:</b> An Ability to produce cost effective, quality and maintainable software products and solutions meeting the global standards.			
<b>PO4:</b>	60%	49%	Target Level not Achieved
<b>Action taken</b>			
1. Assignments or case studies to understand the complex problems were given. 2. Students were encouraged to take up mini projects 3. Real time projects were given to the students and they were guided by both faculty and Industry/Research			

personnels.			
<b>PO5: Modern Tool Usage:</b> An ability to apply techniques, skills and modern engineering tools required for IT applications.			
<b>PO5:</b>	60%	54 %	Target Level Not Achieved
<b>Action Taken</b>			
1.Workshops were organized to give exposure on modern engineering tools.			
2.Students were motivated to participate in seminars.			
3.Students were asked to participate in technical contests like software developing etc..			
<b>PO6: The Engineer and Society:</b> An ability to inculcate, the soft skills and an ability to perform in multidisciplinary areas.			
<b>PO6 :</b>	60%	57 %	Target Level Not Achieved
<b>Action taken</b>			
1.Students were involved in club activities such as NSS, YRC, Fine arts, Road safety, Sports, Tree Plantation and Trekking clubs.			
2.Blood donation camps were organized to create awareness on health.			
<b>PO7:Environment and Sustainability:</b> An Ability to design and develop hardware and software in emerging technology environments with required domain knowledge.			
<b>PO7 :</b>	60%	45 %	Target Level Not Achieved
<b>Action taken</b>			
1.Students were asked to study the environment and submit assignments based on environment and sustainability.			
2. Local visits were arranged for visiting industry to develop innovative ideas in sustainable development.			
3. Awareness on environment and sustainability were created through social club activities.			
<b>PO8: Ethics:</b> An ability to apply professional and ethical principles with responsibility.			
<b>PO8 :</b>	60%	60 %	Target Level Achieved
<b>Action taken</b>			
1. Course on personal values were offered to inculcate the ethical practices.			
2. Assignments were given on, topics related to the ethics of the concern subject.			
3.Students were encouraged to do NPTEL courses			
<b>PO9: Individual and Team Work:</b> An ability to function in multidisciplinary teams exhibiting innate abilities towards team building.			



<b>PO 9 :</b>	60%	56 %	Target Level Not Achieved
<b>Action taken</b> 1.Project work was assigned to the students by forming groups. 2.Participation in cocurricular and extracurricular activities was promoted to bring out individual skills of each student. 3.Students were encouraged to participate in seminars to improve their presentation skills and communication skills.			
<b>PO10: Communication:</b> An ability to communicate effectively.			
<b>PO 10 :</b>	60%	44%	Target Level Not Achieved
<b>Action taken</b> 1. Students were encouraged to participate in the Seminars and technical events organized by other institutions. 2.Soft skill training programs were provided for the improvement of communication skills and presentation skills like reading, writing, speaking etc.			
<b>PO11:Project Management and Finance:</b> An ability to apply, design and implement application oriented projects.			
<b>PO 11 :</b>	60%	46 %	Target Level Not Achieved
<b>Action taken</b> 1. Students were encouraged to handle financial management part during various events organized through association or clubs or college level function activities. 2. Students were encouraged to create innovative projects 3. Team Building activities were conducted to build leadership activities.			
<b>PO12: Life-long Learning:</b> An ability to engage in independent and lifelong learning in the broadest context of technological change.			
<b>PO 12 :</b>	60%	62%	Target Level Achieved
<b>Action taken</b> 1.A separate cell named as Higher Education Cell organize events to make the students know about the importance of pursuing higher education and prepare for various competitive exams. 2.Professional skills were inculcated among the students through workshops and seminars. 3.Through Entrepreneurship Development Cell awareness were created.			
<b>PSO</b>	<b>Target level</b>	<b>Attainment level</b>	<b>Observations</b>
PSO 1: Ability to apply the acquired knowledge of basic skills, principles of computing, mathematical foundations, algorithmic principles, modeling and design of computer- based systems in solving			

engineering Problems.			
<b>PSO1:</b>	60%	61 %	Target Level Achieved
<b>Action Taken</b>			
1.Bridge courses were conducted to enhance the basic knowledge on mathematical foundations.			
2.Students were encouraged to visit industries.			
3 Students were encouraged to do advanced level online courses.			
PSO 2: Ability to understand and analyze the interdisciplinary problems for developing innovative sustained solutions with environmental concerns.			
<b>PSO2:</b>	60%	55 %	Target Level Not Achieved
<b>Action Taken</b>			
1.Students were guided to take up projects related to embedded systems and IoT based electrical systems.			
2. Students were asked to submit assignments based on mathematical models, and algorithms.			
PSO 3:Ability to update knowledge continuously in the tools like Rational Rose, Argo UML, WinRunner, Dreamweaver and technologies like Security, Computing, Cryptography to meet the industry requirements.			
<b>PSO3:</b>	60%	64%	Target Level Achieved
<b>Action Taken</b>			
1.One credit courses were introduced to make both the ends meet			
2. Field visits to solar systems outside the institutions and other plants outside will be arranged for the students.			
PSO 4: Ability to manage effectively as part of a team with professional behavior and ethics.			
<b>PSO4</b>	60%	61%	Target Level Achieved
<b>Action Taken</b>			
1.Students were directed to participate in team building activities to enhance their communication skills.			
2.Seminars were organized on programming languages.			

## CRITERION 9

### STUDENT SUPPORT SYSTEMS



<b>CRITERION 9</b>	<b>STUDENT SUPPORT SYSTEMS</b>	<b>50</b>
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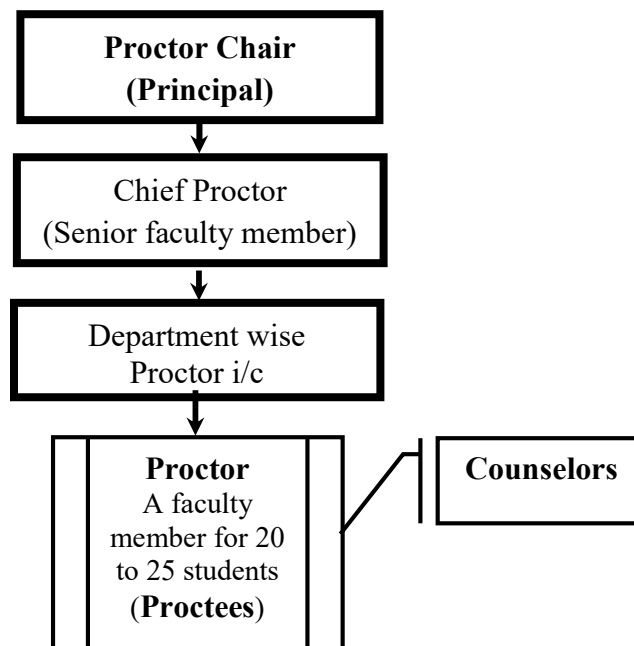
### 9.1. Mentoring system to help at individual levels

(5)

#### Self-Assessment (5)

*Type of mentoring: Professional guidance / career advancement / course work specific / laboratory specific / all-round development*  
*Number of faculty mentors: Number of students per mentor: Frequency of meeting: (The institution may report the details of the mentoring system that has been developed for the students for various purposes and also state the efficacy of such system here)*

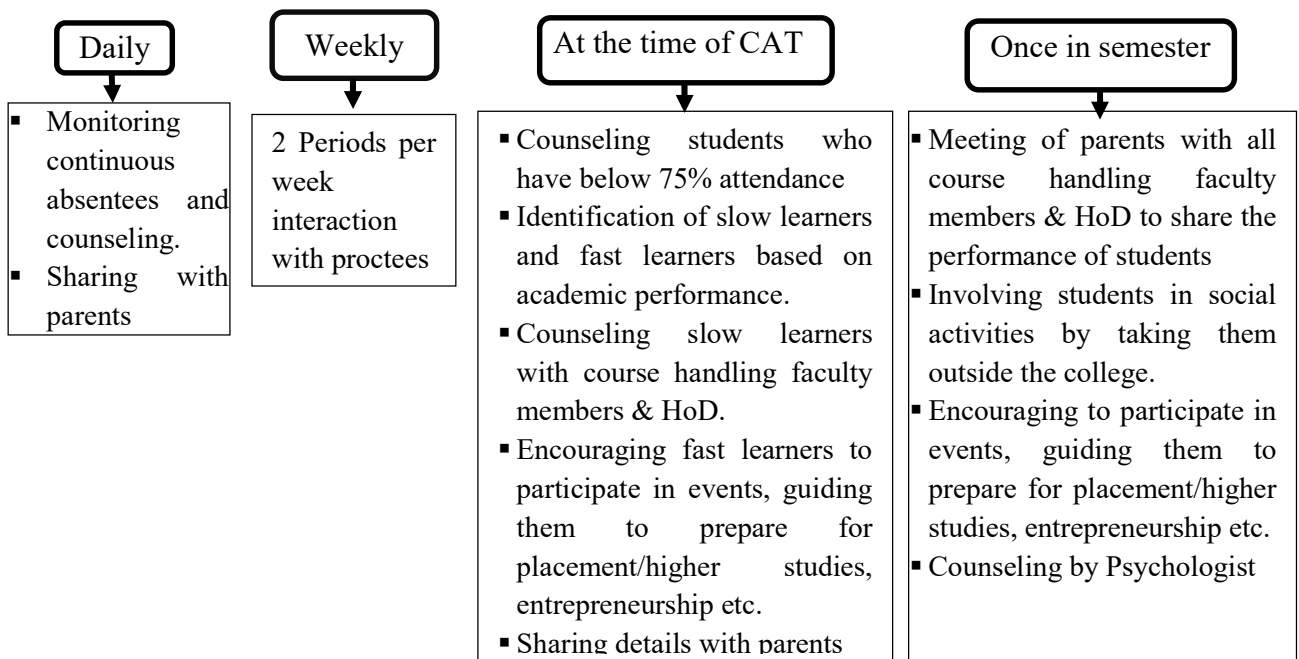
- The Institution has a separate system for mentoring students in the name of Proctoring Scheme. It has two components namely Proctor and Proctee. Proctor refers to faculty member (mentor) who takes the responsibility of mentoring the students. Proctee refers to student (mentee). A proctor is allotted to every set of 20-25 students and he acts like an on-campus parent/mentor. Students of all departments are brought under this system from first year onwards. The structure of the proctoring scheme is presented below.



**FIGURE B 9.1a Structure of Proctoring Scheme**

- Proctor is responsible for counseling/mentoring the respective group of students. The proctor provides guidance on professional development, career advancement, co-curricular and extra-curricular activities, and also keeps follow up on academics.
- A monitoring register (student's record) is used to enter the activities of Proctees (students) and monitor their progress. The academic progress and all their activities of Proctees are closely monitored and entered in the register.
- The student can easily approach the proctor in case of any academic/non-academic help. Any discrepancies such as disciplinary issues, health issues, sense of insecurity, lack of attendance etc are discussed and counseled with care.
- Proctees need to meet their proctor at least once before every continuous assessment and two periods per weeks allotted in the timetable for proctoring.
- Proctors submit the minutes of the meeting to the proctor office which consists of Principal and a senior faculty member as Chief Proctor. The Chief proctor is assigned to monitor the overall functioning of the Proctoring scheme.
- 'Best Proctor Award' is given to the proctors every year in the annual day celebrations as a token of appreciation.
- A team of counselors are also available at institution level to counsel the students. Yoga practices also provided to the students.

### Proctoring process



**Proctoring continues till he/she completes the degree**



FIGURE B 9.1.b Flowchart of Proctoring process

TABLE B9.1a Proctor (Mentor) Details

Academic year	Number of Proctors (Faculty members)	Number of students per mentor	Frequency of meeting
2020-21	172	20 -25	2 times (during CAT-1 &2 period)
2019 -20	157	20 -25	
2018-19	159	20 -25	
2017-18	162	20 -25	

### Type of Mentoring: All-round Development

The all-round development student mentoring system focuses on the following four areas:

- Academic progress
- Co-curricular progress
- Extra-curricular progress
- Career settlement

#### i. Academic progress:

- All students are mentored by the respective Proctors as described in Fig. 9.1b above. This enables the Proctors to monitor the progress of each student.
- During this regular Proctoring, the students are mentored based on their performance and categorised into fast and slow learners. Students who have scored good marks with high CGPA are considered as fast learners. The following provisions are given in the curriculum for the fast learners.
  - ✓ Add-On Course
  - ✓ Credit for Online/ NPTEL courses
  - ✓ Credit for Internship
  - ✓ Credit for One credit courses

Further, students are mentored to participate in State and National level events. Fast learners are advised to help the slow learners whenever possible, which enables peer learning among the students.

- Students with arrears are considered as slow learners. The Students are engaged in the following activities.



- ✓ Extra practice Classes
  - ✓ Video presentation and animations
  - ✓ Extra Assignments
- College Toppers are awarded with ranks based on the academic performance.
  - Best Outgoing Student Award is also presented to motivate the students.

**Efficacy:**

Through this effective mentoring system

- The performance of the students in the continuous assessment tests has improved and the students who perform better are motivated to do well in the upcoming tests.
- Slow learners have also shown improvement in their test performance because of peer learning. They are motivated to perform better in the ensuing tests.
- Slow learners who attend coaching classes perform better in internal tests and have shown great improvement.

**ii. Co-curricular progress:**

- Students' participation in co-curricular activities is periodically monitored.
- Suitable events are identified by the proctors and intimated to the students.
- Students are motivated to participate in multiple activities to enhance their technical and life skills.
- Students are encouraged to do inter-departmental activities.
- Students are involved in various professional society activities, various state and national level symposiums, seminars, conferences & competitions, training programmes, workshops etc.

**Efficacy**

- Students have actively participated in several co-curricular events inside and outside the college, and have also won prizes. .
- Students have improved their technical and life skills
- Many inter-departmental activities, professional society activities, symposiums, conferences & competitions, training programmes, workshops have made to acquire knowledge.



### iii. Extra-curricular progress

- Students are encourage to participate in various extra-curricular activities like sports, NSS, YRC, photography, social activities and other clubs under personality and character development.
- Participation in extra-curricular activities moulds their character and personality. Students emerge physically and mentally strong. Such participations increase the confidence of the students too.

#### Efficacy

- Students have participated in various zonal, district, state and national level events and have also won prizes.
- Students are involved in several social service activities.
- Students have involved in many village welfare activities, cleanliness drives, health & hygiene programmes in and around Perundurai.
- Multiple Tree plantation programmes have been conducted by Tree planning and NSS clubs.
- Students have exhibited their skills in photography, acting, elocution, aptitude etc. in several in-house & external events and have also won prizes.

### iv. Career Settlement

Mentoring through the Career Guidance Cell, Higher Education Cell and Entrepreneurship Development Cell guide the students to achieve their career aim by following the practices like:

- ✓ Training programs are organized for Competitive exams, GATE, GMAT, GRE, etc.,
- ✓ Foreign and additional languages courses are offered as open elective with placement perspective.
- ✓ Entrepreneurial skill development programme are organized through Entrepreneur Development Cell (EDC)
- ✓ One credit courses / Placement training programmes / Skill development programmes are organized
- ✓ Students are involved in Business English Certificate Programme





**Efficacy**

- Students have cleared GATE Exam.
- Several Students are undergoing competitive exam preparation after graduation.
- Several students have taken Business English Certificate Exam.
- Students have started their own ventures and start-ups

**Efficacy of the Mentoring System**

The prevailing mentoring system helps us in the following ways:

- Enhances the teaching-learning process making it more student-centric
- Provides impartial advice and encouragement to students
- Assists in problem solving and improves self-confidence of students
- Provides individual and personal care to the students
- Improves students' performance in internal assessment test and end semester exam
- Reduces the risk of failures and drop-outs and improves academic performance.
- Promotes improvement in attendance percentage of students
- Motivates students to participate in various co-curricular and extracurricular activities
- Promotes decision making abilities that support students' goals, abilities and aspirations and helps students to take better control of their career
- Develops a supportive relationship between students and staff
- Creates a positive work environment
- Facilitates information gathering and dissemination
- Promotes effective utilization of college infrastructure and resources.
- Facilitates better placement.



### 9.1.2 Glimpse of Proctoring Scheme




**FIGURE B 9.1.2a Proctor & Proctee group**

#### **Proctor Booklet:**

A record book named as Proctor booklet is used to record all the activities of students including counseling besides student's basic information, student's progression in curricular, co-curricular, extra-curricular, placement status and conduct information. This record is maintained by the proctors and it makes the monitoring process effective. The sample proctor booklet is enclosed below.





**NANDHA ENGINEERING COLLEGE**  
(Autonomous)  
(Approved by AICTE, Accredited By NBA & NAAC  
& Affiliated to Anna University, Chennai)  
ERODE - 638 052.



**STUDENT RECORD**  
B.E. / B-Tech. Programme

Batch : 2018 to 2022

Name	:	R. Divyayani
Roll No.	:	18EE015
Register No.	:	18EE015
Programme	:	BE
Branch & Section	:	EEE

**FIGURE B.9.1.2b Proctor Booklet/ Student Record**



**STUDENT PARTICULARS**  
(Print out when are all not applicable)

Name	R. Divyashree	Blood Group	A, B+
D.O.B. & Age	26-11-2000/17	Religion	Hindu
Gender	Male / Female	Community & Caste	OC/BC/MB/SC/ST
Mother Tongue	Tamil	E-mail ID	rajkavitha26-11-2000@gmail.com
Nationality	Indian	Mode of Admission	Countdown / Management / others
Identification Marks	<input type="checkbox"/> 01 <input type="checkbox"/> 02		

Parents / Guardian's Name with Address: M. Rajkumar  
210, Karungal Palayam,  
Cauvery road,  
Erode - 632002

Phone / Mobile No: 9848976916 / 7534929829

Hobbies / Daydream: Day at the lake

If Hostel Room No.:

I - Yr	II - Yr	III - Yr	IV - Yr
--------	---------	----------	---------

ii) Overseas - Mode of Conveyance: \_\_\_\_\_ Bus Route No: 39

Academic Details:

Exam Passed	Name & Address of the Institution (Board)	Max. Marks	Marks Secured	% of Marks	Year of Passing
SBLC	Karungal Palayam, Palayam, Cauvery road, Erode	600	498	83%	2016 - 2016
HBC (Academic Vividhan)	Karungal Palayam, Palayam, Cauvery road, Erode	1000	1116	111.6%	2017 - 2018
Diploma					
Other Degree					

Admission Cut off mark: 121 / 25 / Out of 250

Other Achievements (if any): \_\_\_\_\_

Any other Details: \_\_\_\_\_

FIGURE B.9.1.2c Proctor Booklet/ Student Record



	
Phone No. : <u>9848976916 / 7534929829</u>	Phone No. : <u>9802451920</u>
Name : <u>M. Rajkumar</u>	Name : <u>R. Kavitha Rani</u>
Occupation : <u>Govt</u>	Occupation : <u>House wife</u>
Signature : <u>M. Rajkumar</u>	Signature : <u>R. Kavitha Rani</u>
Photography of Guardian	
Phone No.	
Name	
Occupation	
Signature	
Permanent Address	Communication Address
<u>210, Karungal Palayam,</u> <u>Cauvery road,</u> <u>Erode - 632002</u>	<u>210, Karungal Palayam,</u> <u>Cauvery road,</u> <u>Erode - 632002</u>
E-Mail (Parent/Guardian)	<u>rajkumarmj023000@gmail.com</u>
Other Details (if any)	

FIGURE B.9.1.2d Proctor Booklet/ Student record-family information



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**CONTINUOUS ASSESSMENT TEST (CAT)**

Year / Semester: 7/2sem Register No: 18EE015

Sl. No.	Course Code	Course Name	Name(s) of the faculty handling the course / Dept	Marks Obtained Out of <u>50</u>			
				1	2	3	4
				Dt:	Dt:	Dt:	Dt:
1	17EVA01	Professional English-I	N.T. Thirya	38	35	41	
2	17MYB01	Calculus and Solid Geometry	P. Jayaraman	46	47	38	
3	17PXB01	Physics for Engineering	N. Prabhu	50	50	39	
4	17CYB01	Applied Electrochemistry	P. Jayanthi	42	44	44	
5	17MECO1	Engineering Graphics	V.V. Loganathan	50	45	46	
6	17CSO1	python programming lab	S. Sathesh Kumar	46	43	45	
7	17CSPO1	python programming lab	S. Karthik, V. Sankaranarayanan				
8	17CYP02	Engineering practice laboratory	G. Kamani, Priya				
9			S. Legendhnan,				
10			E.K. Arul Karthik				
% of Attendance				100%	100%	98%	

Remarks (if any):

Student's Signature:

Name & Signature with Date	Proctor	HOD / Dean	Parent / Guardian

FIGURE B.9.1.2e Proctor Booklet/ Student record of Continuous assessment test

**END SEMESTER EXAM MARKS**

Year / Semester: I / II Month & Year of Exam: \_\_\_\_\_ Register No: 18EE015

Sl. No.	Course Code	Course Name	Name(s) of the faculty handling the course / Dept	Internal Marks Out of	Grade / Appearance				Month & Year of Passing
					I	II	III	IV	
1	17EVA01	Professional English - II	Mr. N.T. Thirya		A				May 2019
2	17MYB02	Complex Analysis & Laplace Transform	Mrs. A. Megala		AT				May 2019
3	17PXB03	Physics of Solids	Mr. Dr. V. Prabhu		AT				May 2019
4	17CYB03	Environmental Science	Mr. P. Jayanthi		AT				May 2019
5	17EECO2	Electric Circuit Theory	Mr. Dr. A. Sathesh		AT				May 2019
6	17CYP01	Basis of Inf and Mids	Mrs. S. Tharanga, Mr. Dr. Karthik		O				May 2019
7	17EEPO1	Electric Circuit Lab	K.V. Loganathan		O				May 2019
8	17CYP01	Physics Chemistry Lab	P. Jayanthi		O				May 2019
9									
10									
11									

Attendance: 98% GPA / Percentage of Marks: 9.02 CGPA / Cumulative Percentage: 9.032

Remarks if any:

Student's Signature:

Name & Signature with Date	Proctor	HOD / Dean	Parent / Guardian

FIGURE B.9.1.2f Proctor Booklet/ Student record of End Semester Mark statement



## CO-CURRICULAR ACTIVITIES

## A. Paper Presentation, Project Presentation, Quiz, etc....

Sl. No.	Year / Sem	Date(s) of the Event	Title of the paper presented / Seminar / Other Event Participated	Name and Address of the Organising Institute	Award / Prize won
1	I/I	01.11.18	Essay Writing	Indian Bank	I
2	I/II	28.2.19	Poster Presentation	NANDHA ENGINEERING	STU
3	I/II	28.2.19	Project Presentation	NANDHA ENGINEERING	I
4	I/II	8.1.19	Project Presentation	CONSTITUTION 2019	Participate
5	I/II	10.3.19	Quiz	PBGT COLLEGE OF TECH	Participate
6	I/II	20.8.19	Paper Presentation	SSM College	Participate
7	II/I	20.3.20	Project Presentation	Mahendra	II
8	II/I	22.2.20	Paper Presentation	Dr. NITP Institute of Technology	Participate
9	II/II	20.3.20	Paper Presentation	Mahendra	Participate
10	II/I	22.2.20	Circuit D-Backing	Dr. NITP Cg of Tech	II
11	II/II	2020	Project Presentation	2020 Hackathon	Top 100 place
12	II/II	10/9/20	Project Presentation	Kongu Engineering	Participate
13	II/II	10/8/20	Paper Presentation	Kongu Engineering	Participate
14	III/I	08/5/20	Poster Presentation	KPR college	Participate
15	III/I	10/5/20	Abstract In Electron	Sri Krishna Cg of Eng	Participate
16	III/II	24/5/20	Chem Quiz	K.S.R. College of Eng	Participate
17	III/II	08/6/20	Webinar	Google	Participate
18	III/II	24/7/21	Meme - it - up	ATHARVA COLLEGE	Participate
19	III/II	29/7/21	Renaisance	ATHARVA Cg of Institute	Participate
20	III/II	26/3/21	Sci-fi	Anna University	I
21	III/II	10/4/21	civil Quiz	PBGT COLLEGE OF INSTITUTE	Participate
22	III/II	10/4/21	NETHUNT	PBGT COLLEGE OF INSTITUTE	Participate
23	III/II	11/4/21	Garment from food	PBGT COLLEGE OF INSTITUTE	Participate
24	III/II	9/4/21	Blue Eye Technology	Ainchiathan Cg of Eng	II
25					

FIGURE B.9.1.2g Proctor Booklet/ Student record of co-curricular activities



NANDHA

ENGINEERING COLLEGE (Autonomous)

B. Industrial Visits :

Sl. No.	Year / Sem	Date(s) of the Visit	Name and Address of the Industry Visited	Remarks

C. In - Plant Training :

Sl. No.	Year / Sem	Training Date(s) From.....To.....	Name and Address of the Organization	No. of Days	Remarks
1.	I / II	24/6/19 to 28/6/19	lock bind Technology, Coimbatore.	5	Good.

D. Mini Projects / Exhibition Models

Sl. No.	Year / Sem	Date(s) of the Event	Event Participated	Organizing Institute Name and Address	Award / Prize won
1.	December 2020 III / I	December to Feb 2020 to 2021	Indian level top 100 place. (Project presentation)	2020 HACKTHON	100 <sup>th</sup> Place.

E. C- VAC / One Credit Courses

Sl. No.	Year / Sem	Date(s) of the Course	Course Name	Remarks

FIGURE B.9.1.2h Proctor Booklet/ Student record of co-curricular activities

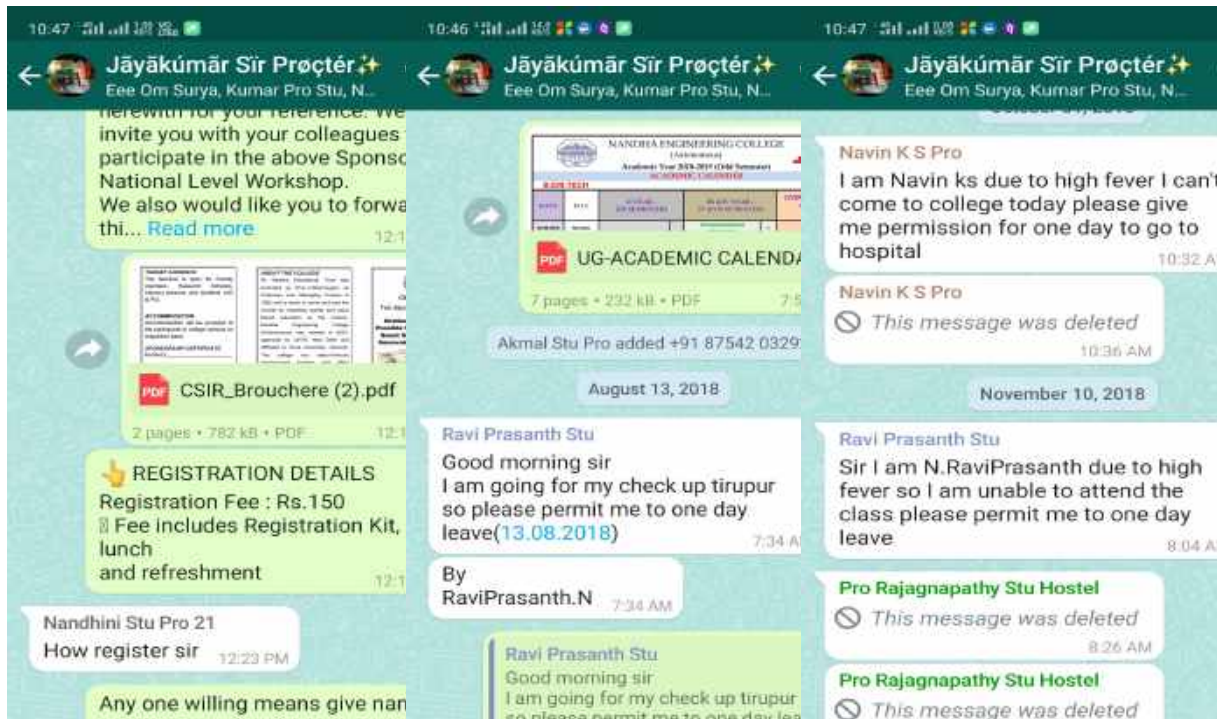


**STUDENTS COUNSELING DETAILS**

Date	Year / Sem	Reason for Counseling & Nature of Complaint	Names & Designation of the Counselor	Faculty Name & Signature			Remarks
				Proctor	HOD	Parent / Guardian	
12/10/17	I / I	Parents Meeting	A. Megala Assistant	A. Megala	A. Megala	M. Dhanasekaran	-
25/4/18	I / II	Parents meeting	A. Megala	A. Megala	A. Megala	M. Dhanasekaran	-
5/9/18	II / III	Parents meeting	A. Megala	A. Megala	A. Megala	M. Dhanasekaran	-
22/9/19	III / IV	Parents Meeting	A. Megala	A. Megala	A. Megala	M. Dhanasekaran	-
11/1/20	IV / V	Parents Meeting	A. Megala	A. Megala	A. Megala	M. Dhanasekaran	-

**FIGURE B.9.1.2i Proctor Booklet/ Student record of counseling details**

**Proctor-Proctee communication:**



**FIGURE B 9.1j Proctor – Proctees on WhatsApp group**



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**Students (Proctees) in Social Activities:**

As part of mentoring, Proctors motivates Proctees to involve in the social activities. A glimpse of activities organized are listed below.

Cleaning programme at Government Hospital, Komarapalayam, Date: 08.12.2017. In this program the students were cleaned the Campus of the Hospital and planted the trees in the hospital. The students have demonstrated the importance of cleaning and tree plantation to the patients and visitors of the Hospital. Medical Officer of the Hospital has motivated and appreciated the student volunteers. A group of proctors have guided the students to conduct this program. 65 students (Proctees) and 4 faculty members were participated in this cleaning and awareness programme.



**FIGURE B.9.1.2k Cleaning, Tree plantation work and Certificate issue by Govt. Hospital**

Students are involved in cleaning programme at Kullampalayam near Perundurai on 07.03.2020. During this program the students has cleaned the village Panchayat office and nearby areas of the village. The students have insisted the peoples of the village to keep the place near to home as clean. Proctors have guided the students. The importance of cleaning also explained to the people of the village. The public peoples were appreciated the student volunteers for their involvement in cleaning.



**FIGURE B.9.1.2|Village Cleaning Work**

**9.2 Feedback on analysis and reward/corrective measures taken, if any: (10)**

**Self-Assessment (10)**

*Feedback collected for all courses: YES/No; specify the feedback collection process; average percentage of students who participate; specify the feedback analysis process; indices used for measuring quality of teaching and learning and summary of the index values for all courses/teachers; number of corrective actions taken.*

**9.2.1 Feedback collected for all courses:**

**YES**

**9.2.2 Specify the feedback collection process;**

The feedback collection process consists of following components

- 1) Course End Survey feedback about academics
- 2) Students' feedback on Faculty
- 3) End Semester Question Paper feedback
- 4) Stakeholders Feedback

**(1) Course End Survey:**

Course End Survey is collected from every student at the end of the semester for all the courses. The survey is based on the parameters related to the course rated on a four scale basis. The consolidated index value is used in the calculation of indirect attainment for that particular course. The impact of the index value is reflected in overall attainment of the



course. If the attainment is not substantial, the following corrective actions are taken to improve the attainment.

- Revision of Syllabus
- Workshops
- Seminars/online courses
- Guest Lectures.

A sample course end survey is presented below.

**NANDHA ENGINEERING COLLEGE, ERODE – 52 (AUTONOMOUS)**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**COURSE END SURVEY**

**NAME OF THE STUDENT:** \_\_\_\_\_ **REGISTER No.:** \_\_\_\_\_

**SUBJECT CODE / NAME :** 17EEEC11 / MEASUREMENTS AND INSTRUMENTATION

**CLASS /SEM :** B.E (EEE)/5

**NAME OF THE FACULTY HANDLED :** Dr.G.RAMANI & C.PRATHEEBA

1. Annotate your observations regarding instruments

Excellent  Good  Satisfactory  Needs improvement

2. Rate your capability to explain the working of instruments

Excellent  Good  Satisfactory  Needs improvement

3. Rate the capability of classifying the types of measuring instruments

Excellent  Good  Satisfactory  Needs improvement

4. Assess the knowledge gained on bridges

Excellent  Good  Satisfactory  Needs improvement

5. The instructor's use of teaching methodology( PPT, lecture slides) is effective and appropriate

Excellent  Good  Satisfactory  Needs improvement

6. The evaluation method used in this course is fair and appropriate

Excellent  Good  Satisfactory  Needs improvement

7. Assignments given helped to gain knowledge in this subject

Excellent  Good  Satisfactory  Needs improvement

8. Rate the level of course content taught to attain the course outcome(CO)

Excellent  Good  Satisfactory  Needs improvement

9. Suggestion to improve the course content – If any

\_\_\_\_\_

10. Changes to be made in the mode of delivery

\_\_\_\_\_

FIGURE B.9.2.2a Course End Survey Questionnaire





**NANDHA ENGINEERING COLLEGE, ERODE - 52**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**ANALYSIS OF COURSE END SURVEY**  
**2019-2020 -III EEE/ V SEMESTER**  
**17EEEC11-MEASUREMENTS & INSTRUMENTATION**  
**FACULTY NAME: Dr.G.RAMANI & Ms.C.PRATHEEBA**

S.No	Description	Excellent	Good	Satisfactory	Needs Improvement	% of attainment	Attainment Level
1	Annotate your observations regarding instrumentss						
2	Rate your capability to explain the working of instruments						
3	Rate the capability of classifying the types of measuring instruments						
4	Assess the knowledge gained on bridges						
5	The instructor's use of teaching methodology( PPT, lecture slides) is effective and appriate						
6	The evaluation method used in this course is fair and appropriate						
7	Assignments given helped to gain knowledge in this subject						
8	Rate the level of course content taught to attain the course outcome(CO)						
9	Suggestion to improve the course content – if any						
10	Changes to be made in the mode of delivery						

$$\% \text{ OF ATTAINMENT} = \frac{\text{EXCELLENT} \times 4 + \text{GOOD} \times 3 + \text{SATISFATOR} \times 2 + \text{NEEDIMPROVEMET} \times 1}{(\text{TOTAL NO. OF STUDENT} \times 4) \times 100}$$

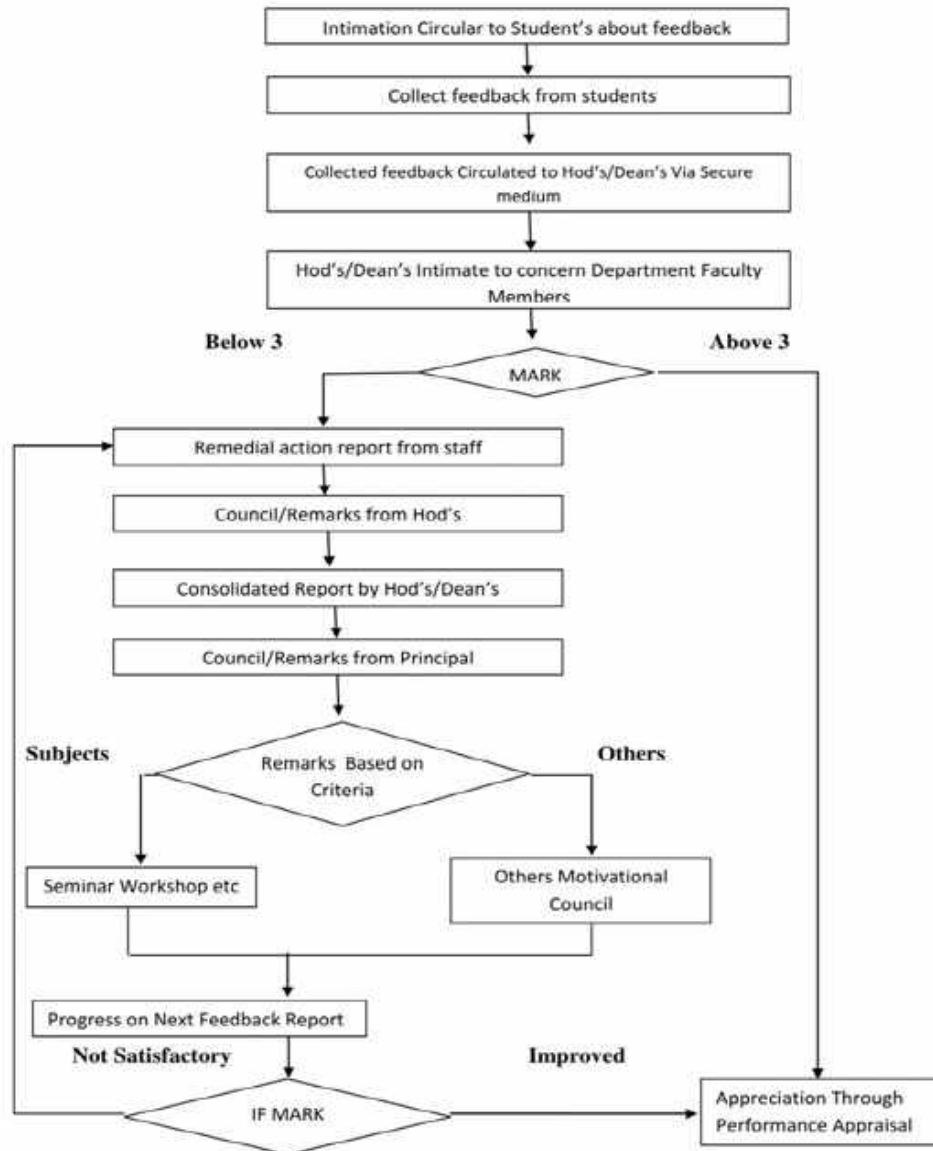
$$\text{ATTAINMENT LEVEL} = \text{ROUND} \left( \frac{\% \text{ OF ATTAINMENT} \times 3}{100} \right)$$

**FIGURE B.9.2.2.b Analysis of Course End Survey**



## (2) Students' feedback on Faculty

The feedback on course handling faculty is collected from every student at the mid of the semester on different parameters as shown in the figure below. The threshold value is fixed as 6 on 10-point scale and the faculty members scoring a total of less than 6 are counseled by the Head of the department and Principal. This helps the faculty to identify the areas of improvement in their teaching pedagogy.



FIGUREB.9.2.2cFlowchart – Mid Semester feedback process



## NANDHA ENGINEERING COLLEGE (Autonomous)

Affiliated to Anna University Chennai + Approved by AICTE + Accredited by NBA-New Delhi  
Pitchchandampalayam, (P.O), Valkkalmedu, Erode - Perundurai Road, Erode - 638 052  
Phone : 04294-225585, 223711, 223722, 226393 Mobile : 73737 23722 Fax : 04294 - 224787

Website : [www.nandhaengg.org](http://www.nandhaengg.org)

E.mail : [info@nandhaengg.org](mailto:info@nandhaengg.org)

**Dr.N.Rengarajan, B.Sc., B.Tech. M.E., Ph.D**  
**PRINCIPAL**

Date: 09-12-2021

Time: 11.00 AM

### CIRCULAR

CLASSIFICATION	ROUTINE	IMMEDIATE
Academic	Originator : PRINCIPAL	CIRCULATED TO : Deans and HODs

All the students studying UG (B.E/B.Tech & PG (MBA, MCA) need to provide their feedback on courses taught to them during the current semester (2021-2022 Odd Semester).

All the students are required to register their feedbacks through following link <https://bit.ly/3eQ0vtq> on 14.12.2021 as per the mentioned time slot.

Year	Department	Slot
I	All Departments (UG&PG)	10.00 - 10.30 AM
II	All Departments (UG&PG)	11.00-11.30 AM
III	All Departments (UG&PG)	2.00-2.30 PM
IV	All Departments (UG)	3.00-3.30 PM

#### Points to be followed:

- Students have to REGISTER with any one id randomly assigned for your student.
- LOGIN by using that same id. If your student is trying an id but that was already used by someone else means it will not accept, at that time ask them to try a different number within that range assigned for your student.
- Select the EDIT OPTION (symbol) and then choose Theory or Practical.
- Now choose the option for all the questions and repeat for all the courses and save.

22  
**PRINCIPAL**  
Nandha Engineering College  
(Autonomous)  
Erode - 638 052.

**FIGURE B.9.2.2d Feedback Circular**



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ENGINEERING COLLEGE (Autonomous)

Department	Faculty Name	Course Name	Total	No. of Students Submitted Feedback	Average %	Score in 5 Scale
EEE	Dr.A.Satheesh Mr.B.Ramraj	Principles of Embedded Systems	2,033.00	49	41.49	4.15
EEE	Dr.G.Arthy Mr.K.Sathiyasree	Principles of Management	814.00	20	40.70	4.07
EEE	Dr.G.Ramani Dr.P.Jamuna	Electric Drives and Control	2,126.00	50	42.52	4.25
EEE	Dr.G.Ramani & Dr.P.Jamuna	Project Work I	2,197.00	50	43.94	4.39
EEE	Dr.M.MYTHILI	SOFT SKILLS- READING AND WRITING	968.00	39	34.57	3.46
EEE	Dr.P.JAMUNA	POWER PLANT ENGINEERING	1,031.00	27	38.19	3.82
EEE	Dr.T.Jayakumar Ms.N.Kalasekvi	Control and Instrumentation Laboratory	809.00	18	44.94	4.49
EEE	Mr. S.Prabhakaran	High Voltage Engineering	573.00	13	44.08	4.41
EEE	Ms. S.Sasikumar Ms.N.Kalasekvi	Measurements and Instrumentation	205.00	18	39.17	3.92
EEE	Mr.B.Ramraj Mr. S.Sasikumar	Essence of Indian traditional knowledge	782.00	19	41.16	4.12
EEE	Mr.B.Ramraj Ms.D.Subalakshmi	Power System Operation and Control	1,767.00	42	42.55	4.25
EEE	Mr.D.Velrinyagiri	Value Engineering	1,094.00	27	40.52	4.05
EEE	Mr.M.C.Jawahar	Waste Water Treatment	1,276.00	30	42.53	4.25
EEE	Mr.M.PRABU	FIELD THEORY	957.00	27	35.44	3.54
EEE	Mr.M.Prabu Dr.T.Jayakumar	Communication Engineering	796.00	20	39.80	3.98
EEE	Mr.M.Prabu R Mr.R.Krishnagandhi	Power System Simulation Laboratory	2,011.00	48	41.90	4.19
EEE	Mr.M.Yeewanthi	Building Services	1,159.00	28	41.39	4.14
EEE	Mr.N.Manikanda Prabhu	Consumer Electronics	906.00	24	37.75	3.78
EEE	Mr.R.Krishnagandhi	Flexible AC Transmission Systems	1,776.00	42	42.29	4.23
EEE	Mr.S.ELANGO	ELECTRICAL MACHINES-I	1,095.00	39	37.76	3.78
EEE	Mr.S.ELANGO	ELECTRICAL MACHINES-I LABORATORY	993.00	27	38.78	3.88
EEE	Mr.V.Arun Kumar Ms.R.Vijayalakshmi	Power Electronics	763.00	19	40.16	4.02
EEE	Mr.V.Arun Kumar Ms.R.Vijayalakshmi	Power Electronics Laboratory	888.00	20	44.40	4.44
EEE	Mr.V.Arun Kumar Ms.R.Vijayalakshmi	Power System Protection and Switch Gear	1,796.00	42	42.75	4.28
EEE	Mr.V.Ravichandran	Special Electrical Machines (Add on)	724.00	18	45.25	4.53
EEE	Ms. S.Thangamani	Database Systems Concepts	677.00	16	42.31	4.23
EEE	Ms.A.MEGALA	TRANSFORMS AND PARTIAL DIFFERENTIAL EQUATIONS	1,111.00	30	37.03	3.70
EEE	Ms.K.SATHYASREE	ELECTRONIC DEVICES AND CIRCUITS	975.00	27	35.11	3.51
EEE	Ms.K.SATHYASREE	ELECTRONIC DEVICES AND CIRCUITS LABORATORY	1,011.00	27	37.44	3.74
EEE	Ms.M.Manjula Mr.V.Ravichandran	Control Systems	813.00	19	42.79	4.28
EEE	Ms.N.M.INDUMATHI	DATA STRUCTURES AND ALGORITHMS	1,126.00	27	41.70	4.17

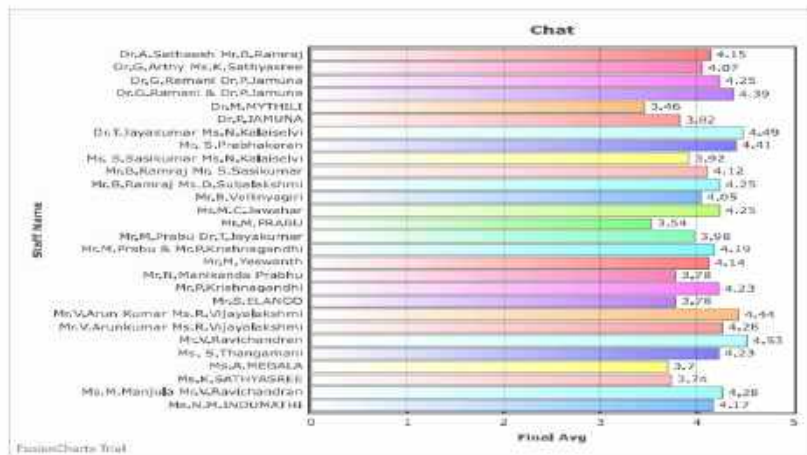


FIGURE B.9.2.2e Measuring various parameters of Teaching and Learning Process



**Action taken on Feedback process**

95% of students have given their feedback. In this feedback the faculty who are below 3.5 marks out of 5 are advised to meet the principal with their HoD for counseling. The performance of the above faculty members is monitored continuously.

NANDHA ENGINEERING, ERODE – 638 052  
(Autonomous)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**DEPARTMENT CIRCULAR**

DATE : 29.12.2021

CLASSIFICATION	ROUTINE	IMMEDIATE
ORIGINATOR : H.O.D		CIRCULATED TO : ALL FACULTY MEMBERS (EEE)

**Sub.: Faculty's Evaluation Based on Students Feedback – Reg.**

Faculty's Evaluation Based on Student's Feedback 2021-2022, ODD SEMESTER (I/II/III/IV Yr). The strength and weaknesses of teaching skills of each faculty were identified from the marks obtained under each feedback parameter. Faculties are requested to have a look at their feedback forms and percentage without fail. If the feedback aggregate total point is **less than 3.5**, then the **faculty should Counselled and insists to attend FDP/Workshop/Seminar/course** related to high impact teaching skills.

*W.R.*  
29/12/21  
HOD - EEE

(Dr.G.Ramani)

**FIGURE B.9.2.2f Action Taken Circular**



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**NANDHA ENGINEERING COLLEGE, (Autonomous) ERODE-638 052.**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**FACULTY COUNSELING FORM**

Faculty Name: Dr. M. Mythili Date: 29/12/21  
 Faculty Designation: AP/ English Time: 3.15 PM  
 Subject Code & Name: 17EEED02 - Soft Skills - Reading and Writing Year / Sem: II / III  
 Reason for Counseling: Student feedback score 3.46 out of 5 scale

COURSE CONTENT	Tick Mark
The faculty covers the entire syllabus	✓
The faculty discusses topics in detail	✓
The faculty possesses the knowledge of the subject taught	✓
The faculty communicates clearly	✓
The faculty inspires me by his/her knowledge in the subject	✓
The faculty providing course materials and other technical details	✓
TEACHING LEARNING PROCESS	
The faculty is punctual to the class	✓
The faculty engages the class for the full duration and completes the course in time	✓
The faculty comes fully prepared for the class	✓
The faculty provides guidance counseling in academic and non-academic matters in/outside the class	✓

**Description of Counseling:** (Please describe in a few sentences)

Faculty had insisted to concentrate more on Real time Problems and tutorials.

**COUNSELING ACTION TAKEN:** (Please Tick given below)

Verbal Warning:  Written Warning:

**ACTION TO BE TAKEN:** (What changes will faculty make to correct their inappropriate work behavior?)

Course Related Seminars, workshops, NPTEL Course, FDP may be attended by faculty members to learn new Innovative Teaching Method.

**FACULTY COMMENTS:**

I agree with the action taken for the above Suggestion(s):   
 I disagree with the action taken for the above Suggestion(s):

*Counseling is intended to be a constructive process to assist you to identify, discuss and remedy aspects of your teaching performance or conduct that need improvement. As noted above, these aspects have been discussed with you and require your immediate attention. This form does not constitute discipline and will not be placed in your personnel. ie. Failure to correct your performance may lead to further administrative action.*

  
 Faculty Signature / Date

  
 HoD Signature / Date

FIGURE B.9.2.2g Faculty Counseling Form



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**(3) End Semester Question Paper feedback**


Feedback on end semester question paper is collected from the students to know syllabus coverage, discrepancies and complexity of question paper. A sample feedback form is given below.

**NANDHA ENGINEERING COLLEGE****(Autonomous)****ERODE -52****Office of the Controller of Examinations****End Semester Question Paper and Expected Result Analysis Report**

<b>Staff Name and Dept</b> : Mr.T.JAYAKUMAR / EEE		
<b>Class / Semester</b> : II-EEE / IV		
<b>Subject name</b> : FUNDAMENTALS OF FIBER OPTICS AND LASER INSTRUMENTATION		
<b>Subject code</b> : 17EEX01		
<b>Question Paper Code</b> : 1742014		
<b>Date of Examination</b> : 30.06.2021		
<b>No of Students appeared</b> : 29		<b>Expected pass percentage</b> : <u>100 %</u>
<b>No of Students Expected to Pass</b> : 29		
<b>No of Students Expected to Fail</b> : NIL		
1	Nature of questions	Below Average(Easy) Average(Moderate) High(Difficult)
		Theoretical /Analysis
2	If the question paper covers all 5 units	Yes/No
3	Are all units given proper weightage of marks	Yes/No
4	Name the question numbers which are given in internal assessment exams	A1,A2,A3,A4,A5,A6,A7,A10, B1,B2, B3, B5, B7, B10 C1, C2, C3,C5, C6, C7, C8
5	Name the question numbers which are given in previous University question papers and end semester examinations question papers	A1,A2,A3,A4,A5,A6,A7,A10, B1,B2, B3, B5, B7, B10 C1, C2, C3,C5, C6, C7, C8
6	Name the question numbers which are out of syllabus	NIL

**NANDHA****ENGINEERING COLLEGE (Autonomous)**

7	Name the question numbers which are covered in recommended text books	ALL QUESTIONS
8	Name the question numbers which are not covered in recommended text books	NIL
9	Is modification required	Yes/No
10	Report from students(Randomly selected) Name	<u>Comments</u>
	1. Dharanya K	Easy
	2. Haran S	Moderate
	3. Mohanapriya T	Easy
	4. Srima R	Easy
	5. Vijay S	Moderate

  
Staff Name with Signature

  
HOD/Dean

  
Principal

**JAYAKUMAR T (AsP/EEE)**

**Note :**

1. This report has to be submitted on the day of the examination.
2. The Faculty can collect the Question Paper after the conclusion the examinations from COE.
3. The detailed Answer Key is to prepared (in A4 sheet typed preferably) for valuation and the faculty for the preparing answer key has to be decided by Dean / HOD.
4. Rs. 500/- will be paid as remunerations for preparing the Answer Key.
5. The date for submission of Answer Key: 3 days after the exam of the subject.

**FIGURE B 9.2.2h Question Paper feedback form**




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#### 4) Stakeholders Feedback :

Structured feedback for design and review of syllabus is received from students, Teachers, Employers, Alumni.

KredoVoiceOut - The Ultimate Feedbacks And Accreditation Management System

Kredo Voice Out  NANDHA ENGINEERING COLLEGE

STUDENT FEEDBACK 20-21

Name\*

Degree: \*

Program: \*

STUDENT FEEDBACK 20-21

1	The curriculum and syllabus are well organized and easy to follow	<input type="radio"/> Excellent	<input type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
2	Is the entire syllabus covered by the faculty?	<input type="radio"/> Excellent	<input type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
3	Laboratory exercise improve my ability to understand concepts and helps to relate and apply theory to practice	<input type="radio"/> Excellent	<input type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
4	The depth of the syllabus is proportional to course outcomes	<input type="radio"/> Excellent	<input type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
5	The correct credit were allocated to the course depending on the difficulty of the course	<input type="radio"/> Excellent	<input type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
6	The Syllabus provide the necessary skill set required by the industry	<input type="radio"/> Excellent	<input type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
7	The books prescribed as reference material are relevant, updated and appropriate	<input type="radio"/> Excellent	<input type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
8	The elective offered are pertinent to the specification streams and to technology advancements.	<input type="radio"/> Excellent	<input type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
9	Is the Syllabus career oriented?	<input type="radio"/> Excellent	<input type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
10	Is the Pre-requisite course appropriate?	<input type="radio"/> Excellent	<input type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor

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**FIGURE B 9.2.2i Student Feedback Form**



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3/1/22, 9:16 AM KredoVoiceOut - The Ultimate Feedbacks And Accreditation Management System

Kredo Voice Out  **NANDHA ENGINEERING COLLEGE**

**CIVIL FACULTY FEEDBACK 20-21**

Name \*

Degree: \*

Program: \*

**CIVIL FACULTY FEEDBACK 20-21**

1	Curriculum and Syllabus on par with recent trends	<input type="radio"/> Excellent	<input type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
2	Elucidation of Course Outcomes	<input type="radio"/> Excellent	<input type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
3	Adequacy of Academic tasks in the course plan	<input type="radio"/> Excellent	<input type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
4	Syllabus in accordance with Competitive Examinations	<input type="radio"/> Excellent	<input type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
5	Importance and Relevance of the course to Industry and Societal needs	<input type="radio"/> Excellent	<input type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
6	Accessibility of Relevant Reading Materials and E -sources in the library	<input type="radio"/> Excellent	<input type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
7	Course equilibrium between theory and application	<input type="radio"/> Excellent	<input type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
8	Privilege to propose, modify, suggest and incorporate new topics in the syllabus through proper forum	<input type="radio"/> Excellent	<input type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
9	Flexibility in adopting new techniques / tools/ strategies in teaching	<input type="radio"/> Excellent	<input type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
10	Scope provided for Research activities.	<input type="radio"/> Excellent	<input type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor


Any Other Comments:

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FIGURE B 9.2.2j Faculty Feedback Form



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Kredo Voice Out


EMPLOYER FEEDBACK 20-21

Name \*

Degree: \*

Program: \*

EMPLOYER FEEDBACK 20-21

1	Satisfaction with the caliber of the graduates	<input type="radio"/> Excellent <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
2	Satisfaction that graduates are learning the right skills/courses relevant to your organization's requirements	<input type="radio"/> Excellent <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
3	Satisfaction with the speed at which course content is being adapted to meet the changing industrial needs	<input type="radio"/> Excellent <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
4	Institutional Reputation	<input type="radio"/> Excellent <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
5	Relevant subject or Discipline Knowledge	<input type="radio"/> Excellent <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
6	Quality of Employability Skills and Attributes of our graduates	<input type="radio"/> Excellent <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
7	The Institution produces high quality graduates	<input type="radio"/> Excellent <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
8	Successful past experience of recruiting from this institution	<input type="radio"/> Excellent <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
9	Organization and institution collaborate on joint research projects	<input type="radio"/> Excellent <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
10	Ability to apply professional and / or technical knowledge in the workplace	<input type="radio"/> Excellent <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor


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**FIGURE B 9.2.2k Employer Feedback Form**



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ALUMNI FEEDBACK 20-21

Name \*

Degree: \*

Program: \*

ALUMNI FEEDBACK 20-21

1. Academic Initiatives taken by the college to improve technical or Industry required knowledge is sufficient.  Excellent  Good  Fair  Poor
2. Co-curricular initiatives taken by the college to improve the students technical / professional Skills.  Excellent  Good  Fair  Poor
3. Whether the Choice Based Credit System was in tune with the existing or emerging trends of the industry?  Excellent  Good  Fair  Poor
4. Whether the Programme offered to you was suitably demanding the industrial needs?  Excellent  Good  Fair  Poor
5. Was the Syllabus prescribed for the programme are well organized and structured?  Excellent  Good  Fair  Poor
6. Content of the courses (subjects) offered under my programme was up to date and relevant.  Excellent  Good  Fair  Poor
7. Project Work / Internships offered under my programme was challenging & constructive.  Excellent  Good  Fair  Poor
8. Open Elective courses offered were diverse and resourceful.  Excellent  Good  Fair  Poor
9. Overall learning environment offered in the campus.  Excellent  Good  Fair  Poor

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FIGURE B 9.2.21 Alumni Feedback Form



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**9.3 Feedback on Facilities****(5)****Self-Assessment (5)***Feedback collection, analysis and corrective action*

Feedbacks on the following facilities are collected

- Academics
- Library
- Canteen
- Technical - Computer
- Transport
- Cash Counter
- Office
- Reception
- New Requirements
- Mess
- Carpenter and Electrical Works
- Maintenance work
- Plumbing works
- Security
- Hostel

Based on the feedback collection process, corrective actions are taken.





**Class Committee meeting:**

1.1 Every class shall have a class committee consisting of teachers of the class concerned, student representatives and a chairperson who is not teaching the class. It is like “Quality Circle” with the overall goal of improving the teaching-learning process.

1.2 The chairperson of the class committee invites Faculty advisor(s) and the student representatives to the meeting.

1.3 Principal may participate in any class committee of the institution.

1.4 The chairperson prepares the minutes of every meeting, submit the same to Principal within two days of the meeting and arrange to circulate it among the students and teachers concerned. If there are some points in the minutes requiring action by the Management, the same shall be brought to the notice of the Management by the Head of the Institution.

Average percentage of students who participate:

- For class committee Process, five students from each branch will be instructed to attend the class committee meeting.
- The students selection of each branch will be based on the following criteria;
  - a. A day’s scholar availing college bus (Boy and Girl)
  - b. A hosteller
  - c. A lateral entry
  - d. An Academic Topper
  - e. Slow learners

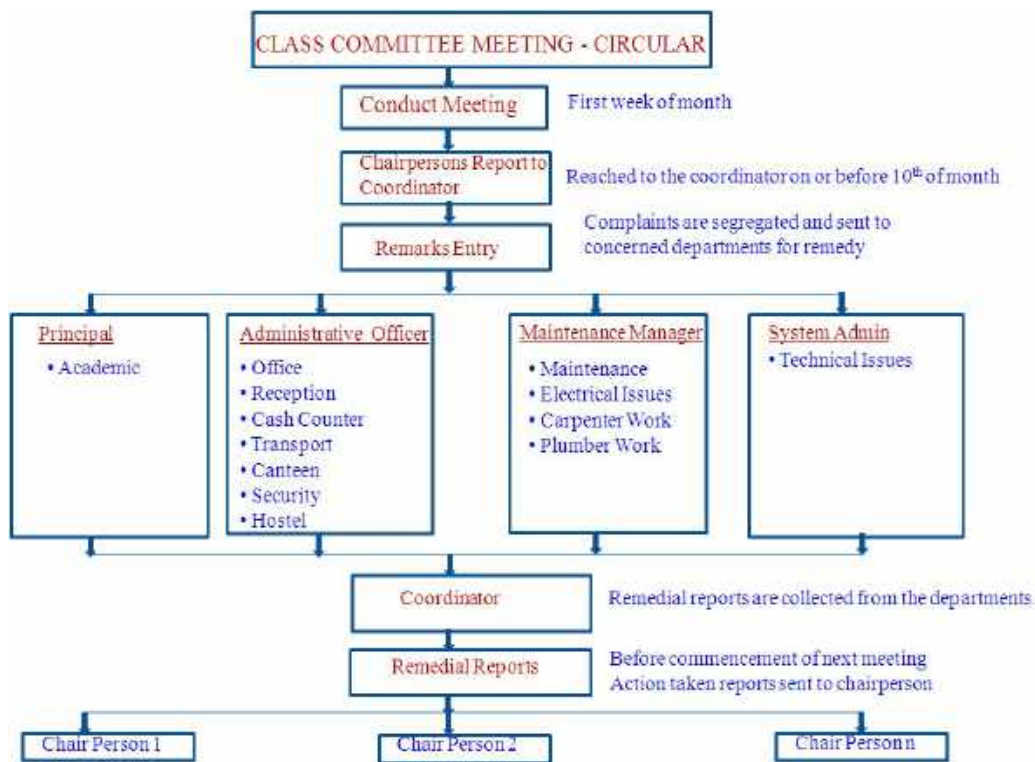


FIGURE B 9.3a Flowchart – Class committee meeting

Table below describes the template of Academic and General Issue

**TABLE B 9.3a Template of Academic and General Issue**

**TABLE 9.3b Minutes of Class Committee meeting on academics and general issues**

**NANDHA ENGINEERING COLLEGE, ERODE - 52  
CCM COMPLAINT REPORT - DEC 2021**

SNo	Date	Dept	Facility	Location	Staff Name	Work Status	class	No of Similar Response
263080	10/12/2021	NEC-AGRI	sports events circulars need to be circulated to students in proper time	FIRST YEAR AGRI STUDENTS	Agricultural Engineering - 7373556600	Not Completed	I_ II_ III_ IV_ AGRI	20
263083	10/12/2021	NEC-AGRI	Need coat for field work.	II ND YEAR AGRI STUDENTS	Agricultural Engineering - 7373556600	Not Completed	I_ II_ III_ IV_ AGRI	20
263084	10/12/2021	NEC-AGRI	Practice for VART/APPS conducted on Saturdays is needed	II ND YEAR AGRI STUDENTS	Agricultural Engineering - 7373556600	Not Completed	I_ II_ III_ IV_ AGRI	20
263085	10/12/2021	NEC-AGRI	Placement classes from senior are conducted earlier. This can be included in Saturdays.	II ND YEAR AGRI STUDENTS	Agricultural Engineering - 7373556600	Not Completed	I_ II_ III_ IV_ AGRI	20
263086	10/12/2021	NEC-AGRI	17AGC12 Mr. Mukilan 5 Units Completed. As per academic schedule classes going smoothly. Problematic portions in online classes are handled faster.	III YEAR AGRI STUDENTS	Agricultural Engineering - 7373556600	Not Completed	I_ II_ III_ IV_ AGRI	20
263087	10/12/2021	NEC-AGRI	17AGC14 Mr. K. Jaya Prakash 5 Units Completed. As per academic schedule classes going smoothly. Problematic portions in online classes are handled faster.	III YEAR AGRI STUDENTS	Agricultural Engineering - 7373556600	Not Completed	I_ II_ III_ IV_ AGRI	20



263047	09/12/2021	NEC-AIDS	17MYB01-Ms.R.Amutha :Portion coverage is too fast. Students are requested to teach in a slow manner with detail explanation	FIRST YEAR AI_DS	VANATHI D-7373740011	Not Completed	I_AIDS	49
263049	09/12/2021	NEC-AIDS	PROCTOR HOUR-Since now, proctor hour is not conducted as per the academic schedule	FIRST YEAR AI_DS	VANATHI D-7373740011	Not Completed	I_AIDS	49
263051	09/12/2021	NEC-AIDS	Buddy/Alumi Hour-Not yet started	FIRST YEAR AI_DS	VANITHA P-9488066933	Not Completed	I_AIDS	49
263052	09/12/2021	NEC-AIDS	Google classroom is not yet created for individual subjects.All the subject materials are shared through official Whatsapp group it is very difficult to follow the same	FIRST YEAR AI_DS	VANATHI D-7373740011	Not Completed	I_AIDS	49
263054	09/12/2021	NEC-AIDS	Projector is not working properly. Faculty members are using chalk & board to deliver the lecture.	FIRST YEAR AI_DS	VANATHI D-7373740011	Not Completed	I_AIDS	49
263055	09/12/2021	NEC-AIDS	For Clear visibility in the black board. Students requested additional fluorescent lamp near to the black board	FIRST YEAR AI_DS	VANATHI D-7373740011	Not Completed	I_AIDS	49
263056	09/12/2021	NEC-AIDS	Insects problem is severe in the floor as well as in classroom	FIRST YEAR AI_DS	VANATHI D-7373740011	Not Completed	I_AIDS	49
263058	09/12/2021	NEC-AIDS	Students requested all provisions in drinking water system with basic needs in their respective floor	FIRST YEAR AI_DS	VANATHI D-7373740011	Not Completed	I_AIDS	49
262931	09/12/2021	NEC-BME	In second year BME- NO faculty members in ANATOMY subject	Block 3 II YR BME	VIJAYALAKSHMI R-	Not Completed	I_ II_ III_ IV BME	54
262937	09/12/2021	NEC-BME	Artificial organs, subject- Still no allocations of faculty	IV YEAR BME	VIJAYALAKSHMI R-	Not Completed	I_ II_ III_ IV BME	10

TABLE B 9.3c Members details of Class Committee meeting for academics and general issues

Staff Members:				Student Members:	
Sl.No.	Subject	Staff Name	Sign	Name	Sign
1	Quantity Surveying and Estimation	Mr.S.K.Gowtham		B.KIRUTHIKA NANDHIA	
2	Prefabricated Structures	Mr.S.Gnanavenkatesh		T.BASKAR	
3	Transport Planning and Management	Mr.A.Abdul Hameed		R.Julija Elavarasi	
4	Industrial Wastes treatment and Disposal	Mr.G.Amrithgadeshwaran		V.Karthikeyan	
5	Municipal Solid Waste Management	Mr.M.Yeshwanth		S. ASWINI	
6	Construction Management	Mr.K.L.Ravhanar			
7	Total Quality Management	Ms.S.Tharanya			
8	Waste management (OE)	Mr.R.Padeeps Mr.G.Amrithgadeshwaran			
11	Design Project	Mr.A.Abdul Hameed Mr.G.Amrithgadeshwaran Ms.K.Selvi			
12	Quantity Surveying and Estimation Lab	Mr.P.Shankar Mr.S.K.Gowtham			

Chairperson Name	Designation/ Dept.
K.S.SATHYA	AP/CSE

TABLE B 9.3d Feedback and action taken report for Library issues

NANDHA



ENGINEERING COLLEGE (Autonomous)

SNo	Date	campus	Institution	Department	Facility	Location	Category	Staff Name	work nature	Work Status
240118	24/01/2020	Tech	NEC	NEC-AGRI	Design Data books are not available in library (III Year).	Library	CCM	SADAGOBAN K-9994427585	Library	Completed
240162	27/01/2020	Tech	NEC	NEC-MBA	Some subject books are not available	MAIN LIBRARY	CCM	DEVARAJ.N-6380452045	Library	Completed
240152	27/01/2020	Tech	NEC	NEC-MBA	Need library hour 1 per week	Library	CCM	DEVARAJ.N-6380452045	Library	Completed
251460	30/01/2021	Tech	NEC	NEC-EEE	Students need to take books from main library. Since only final year students are allowed to take books now.	III EEE Class (Main Library)	CCM	SATHEESH A-9750722999	Library	Completed
262470	20/10/2021	Tech	NEC	NEC-MCA	Library- Students need to take books from department library	MCA III YEAR	CCM	SADAGOBAN K-9994427585	Library	Completed
262464	20/10/2021	Tech	NEC	NEC-MCA	Library- Students need to take books from department library	block 3 II MCA class	CCM	Vellinginraj - 9965361666	Library	Completed
262479	21/10/2021	Tech	NEC	NEC-CVL	Requisition from students to access library books from the main library	library	CCM	SADAGOBAN K-9994427585	Library	Completed
274056	28/04/2022	Tech	NEC	NEC-AGRI	The students requested for department library. The studentS requested more copies of books for crop production in library	I-AGRI	CCM	Dhana Nivetha - 9095845257	Library	Completed

TABLE B 9.3e Feedback and action taken report for canteen issues

SNo	Date	campus	Institution	Department	Facility	Location	Category	Staff Name	work nature	Work Status
240249	24/02/2020	Tech	NEC	NEC-MECH	Price increased, need to reduce	Canteen	CCM	MURTHIMK-	Canteen	Completed
240258	24/02/2020	Tech	NEC	NEC-MECH	Price increased for food items	Canteen	CCM	MURTHIMK-	Canteen	Completed
240265	24/02/2020	Tech	NEC	NEC-MECH	Price increased for food items	Canteen	CCM	MURTHIMK-	Canteen	Completed
240276	24/02/2020	Tech	NEC	NEC-MECH	Price increased for food items	Canteen	CCM	MURTHIMK-	Canteen	Completed
240286	24/02/2020	Tech	NEC	NEC-MECH	canteen 10.40 to 10.55 over rush	Canteen	CCM	MURTHIMK-	Canteen	Completed
240738	25/02/2020	Tech	NEC	NEC-EEE	Canteen item rate increased but quantity decreased.	DANTEEN	CCM	SATHEESH A-9750722999	Canteen	Completed
240771	24/02/2020	Tech	NEC	NEC-EEE	In canteen snacks and beverage rates to be reduced	EEE-I	CCM	SATHEESH A-9750722999	Canteen	Completed
240777	24/02/2020	Tech	NEC	NEC-EEE	In canteen snacks and beverage rates to be reduced. Not yet received action taken from Teri	CCM DANTEEN	CCM	SATHEESH A-9750722999	Canteen	Completed
240778	24/02/2020	Tech	NEC	NEC-EEE	In canteen snacks and beverage rates to be reduced. Not yet received action taken from Teri	CCM DANTEEN	CCM	SATHEESH A-9750722999	Canteen	Completed
282906	9/12/2021	Tech	NEC	NEC-MCA	Students felt that service is delayed in canteen. They need separate cash counter for boys and girls.	DANTEEN	CCM	AKVELUSAMY - 9942993055	Canteen	Completed
282961	9/12/2021	Tech	NEC	NEC-ECE	FOOD, SNACKS AVAILABILITY IS LOW	DANTEEN	CCM	AKVELUSAMY - 9942993055	Canteen	Completed

TABLE B 9.3f Feedback and action taken report for technical - computer issues



SNo	Date	campus	Institution	Department	Facility	Location	Category	Staff Name	Work nature	Work Status
251348	9/2/2021	Tech	NEC	NEC-ECE	TWO SYSTEMS	PCB DESIGN LAB BLOCK 2 FIRST FLOOR	New Requirements	SRINIVASAN K.	Technical-Computer	Completed
251465	30/09/2021	Tech	NEC	NEC-EEE	Projector is not working. Need to fix a Projector in ceiling stand	IV EEE Class (B IV - 306)	DDM	SATHEESH A-970722989	Technical-Computer	Completed
251622	8/9/2021	Tech	NEC	NEC-IT		BLOCK - II - I Floor - 213 (IT Lab)	Complaints	GIRIPRASATH K-984019951	Technical-Computer	Completed
251720	16/09/2021	Tech	NEC	NEC-MBA	projector not working	Block 5 MBA LAB	Complaints	NATHYAK-997685964	Technical-Computer	Completed
251721	16/09/2021	Tech	NEC	NEC-MBA	system not working	BLOCK 5 MBA LAB	Complaints	NATHYAK-997685964	Technical-Computer	Completed
252105	24/09/2021	Tech	NEC	NEC-CHEMICAL	Installation of WIFI Device in first floor corridor. Installation of internet (LAN) connection (1 No) in all laboratories.	Block 9 (all floor)	Complaints	Dr Subramanian 9789780867	Technical-Computer	Completed
262177	29/09/2021	Tech	NEC	NEC-EEE	LAN port problem in Faculty system	BLOCK 4 EEE FIRST FLOOR CC/II ROOM NO 103	Complaints	RAMRAJ-9790480888	Technical-Computer	Completed
262243	30/09/2021	Tech	NEC	NEC-EEE	PROJECTOR ROLLER PROBLEM. I Class rooms not cleaned. recurrently. 2. Block -3 3rd 304 Projector screen not available.	BLOCK 4 EEE DEPARTMENT- SECOND FLOOR-ROOM NO 032	Complaints	ARUNJAMAR V-9520333032	Technical-Computer	Completed
262431	20/10/2021	Tech	NEC	NEC-CSE	Projector screen not available. Block -3 3rd 304 Projector screen not available.	II rd. Year CSE CLASSROOM-Block 3 3rd 304 (BY II YEAR CSE)	DDM	GUJASEKAR-994272900	Technical-Computer	Completed
262480	20/10/2021	Tech	NEC	NEC-CSE	Need Wifi Connectivity with enough bandwidth to attend placement classes smoothly.	FINAL YEAR CSE STUDENTS	DDM	GUJASEKAR-994272900	Technical-Computer	Completed
263076	20/11/2021	Tech	NEC	NEC-CSE						
263451	11/12/2021	Tech	NEC	NEC-IT	Projector screen is to fix	Block 3 Second Floor IT Lab	Complaints	SMAC-975016801113694380895	Technical-Computer	Completed

TABLE B 9.3g Feedback and action taken report for Transport issues

SNo	Date	campus	Institution	Department	Facility	Location	Category	Staff Name	Work nature	Work Status
251467	09/10/2021	Tech	NEC	NEC-EEE	Students coming from long distance roads buses from their place of departure. Since only few buses are running now.	IV EEE Class (Transport)	DDM	SATHEESH A-970722989	Transport	Completed
262425	20/10/2021	Tech	NEC	NEC-BME	Students come in college by college bus in only one day. But names are coming in last booking list. Dis No. 10. Full rush, no seats available to sit and students are standing in queue due to rush.	Block 1 IUB	DDM	A K YELUSAMY - 9942889335	Transport	Completed
262476	28/10/2021	Tech	NEC	NEC-CHEM		TRANSPORT	DDM	A K YELUSAMY - 9942889335	Transport	Completed
262807	5/12/2021	Tech	NEC	NEC-MCA	Students said that standing in morning and evening while travelling more rush in bus no 82.	EPODCE BUS transport office	DDM	SARAVANAN N-9970455664	Transport	Completed
262920	5/12/2021	Tech	NEC	NEC-ECE			DDM	SARAVANAN N-9970455664	Transport	Completed
262921	3/12/2021	Tech	NEC	NEC-ECE	BUS FEES TOO HIGH AND NEED BUS TO AVOID MORE RUSH	TRANSPORT	DDM	A K YELUSAMY - 9942889335	Transport	Completed
262939	5/12/2021	Tech	NEC	NEC-BME	DURING RAINY SEASON, THE ROOF LEAKAGE	TRANSPORT	DDM	A K YELUSAMY - 9942889335	Transport	Completed
262954	3/12/2021	Tech	NEC	NEC-MEDSI	Bus No. 21, 97, 50 & 54 9th seat comfort and rain water is coming inside.	TRANSPORT	DDM	SARAVANAN N-9970455664	Transport	Completed
263119	5/12/2021	Tech	NEC	NEC-EEE	1. More numbers of students occupied in Bus No. 38, 83, 78, 81, 54, 22 & 2. Bus Roof is not proper in all bus. 3. Rush driving in bus no. 63 & 4. Facilities are occupying seats in bus number 54, 35.	transport	DDM	A K YELUSAMY - 9942889335	Transport	Completed
263122	3/12/2021	Tech	NEC	NEC-EEE	1. Bus Facility need to be extended for bus no 83 to Transport zone. 2. No Lock facility in the ladies rest room in EEE block. 3. Power Switch problem in Block 4, 306. 4. Hostel Room need to be properly cleaned. 5. Food not Proper. Drinking water facility not available. 6. Ward Facilities and related need to be processed for not occupied days.	transport, institute, hostel	DDM	A K YELUSAMY - 9942889335	Transport	Completed
263134	10/12/2021	Tech	NEC	NEC-IT	Bus No. 20 9th Bus water leakage. No bus facility for the plus. Clean smooth (with bus route).	Transport	DDM	A K YELUSAMY - 9942889335	Transport	Completed

TABLE B 9.3h Feedback and action taken report for cash counter issues



SNo	Date	campus	Institution	Department	Faculty	Location	Category	Staff Name	work nature	Work Status
24007	24/01/2020	Tech	NEC	NEC-MECH	Floor Response	Cash Counter	CCM	MURTHIM K-	Cash Counter	Completed
24026	23/09/2020	Tech	NEC	NEC-CHEM	Floor response from each counter Additional (un informed) fees collection	Cash counter	CCM	Chemical Engineering 994298882	Cash Counter	Completed
24034	23/01/2020	Tech	NEC	NEC-CHEM	STUDENTS NEED FEES RECEIPT	AO Office	CCM	Chemical Engineering 994298882	Cash Counter	Completed
25160	19/02/2021	Tech	NEC	NEC-MBA		I Year MBA (Office)	CCM	AK VELUSAMY - 9942989355	Cash Counter	Completed
<p>1.Cash counter timing can be extended for departments. 2. Need of fees receipt printed format. 3.Fees paid list shall be updated before circulation. 4. Scholarship reduced fees list shall be circulated. 5. Tuition fees payable can be extended. 6. Need of separate timing for students to meet AO.</p>										
25170	29/01/2021	Tech	NEC	NEC-MECH	Need receipt for fee	II Mech Class (Cash Counter, Office)	CCM	AK VELUSAMY - 9942989355	Cash Counter	Completed
25180	10/02/2021	Tech	NEC	NEC-AGRI	Need receipt for fee	II Agri Class	CCM	AK VELUSAMY - 9942989355	Cash Counter	Completed
25176	10/02/2021	Tech	NEC	NEC-EEE	Having difficulty in paying placement fees due to the pandemic situation	III EEE Class	CCM	AK VELUSAMY - 9942989355	Cash Counter	Not Possible
25173	19/02/2021	Tech	NEC	NEC-MBA	STUDENTS NEED FEES RECEIPT	II MBA	CCM	AK VELUSAMY - 9942989355	Cash Counter	Completed
25218	20/01/2021	Tech	NEC	NEC-BME	Students request to minimize the exam fees fine amount	Block 1102	CCM	AK VELUSAMY - 9942989355	Cash Counter	Completed
<p>In the office each section there is not proper response while paying fees they are not giving the proper response to the students they are roaming the students to pay the fee. Hot water not provided in the hostel.</p>										
25220	9/02/2021	Tech	NEC	NEC-EEE	Hot water not provided in the hostel	Cash counter & Hostel	CCM	AK VELUSAMY - 9942989355	Cash Counter	Completed

TABLE B 9.3i Feedback and action taken report for office issues

SNo	Date	campus	Institution	Department	Faculty	Location	Category	Staff Name	work nature	Work Status
240160	27/01/2020	Tech	NEC	NEC-MBA	Need fees receipt for tuition fees	Fees AO Office	CCM	DEVARAJ N-6260952045	Office-work	Completed
240208	23/01/2020	Tech	NEC	NEC-EEE	Scholarship is received partially	II-EEE	CCM	SATHEESH A-5750722999	Office-work	Completed
240310	23/01/2020	Tech	NEC	NEC-CHEM	ATM machine is not in working condition (mostly)	Institution	CCM	Chemical Engineering 9942498882	Office-work	Completed
240314	23/01/2020	Tech	NEC	NEC-CHEM	Need celebrations in college	Institution	CCM	Chemical Engineering 9942498882	Office-work	Completed
240737	25/02/2020	Tech	NEC	NEC-EEE	In office they are delaying issue of bonafide and fees receipts.	EEE-IV	CCM	SATHEESH A-5750722999	Office-work	Completed
240790	25/02/2020	Tech	NEC	NEC-CHEM	ATM machine is not in working condition (mostly)	CHEMICAL-I	CCM	Chemical Engineering 9942498882	Office-work	Completed
240808	25/02/2020	Tech	NEC	NEC-CHEM	ATM machine is not in working condition (mostly)	CHEMICAL-II	CCM	Chemical Engineering 9942498882	Office-work	Completed
251471	29/01/2021	Tech	NEC	NEC-MECH	Bonafide certificate shall be provided in one working day	II Mech Class (Office)	CCM	AK VELUSAMY - 9942989355	Office-work	Completed

TABLE B 9.3j Feedback and action taken report for Reception issues

SNo	Date	campus	Institution	Department	Faculty	Location	Category	Staff Name	work nature	Work Status
25021	2/2/2015	Tech	NEC	NEC-CVL	NAAC-Reception kind's eage	AO office front side	Complaints	SHYAM KUMAR K-9787848244	Reception	Completed
240356	29/01/2020	Tech	NEC	NEC-CVL	RECEPTIONIST NOT RESPONDING PROPERLY. ALWAYS USING HARSH WORDS AND RUDE FACE	RECEPTION	CCM	MOHANRAJ E.K-9942794011	Reception	Completed
240375	24/01/2020	Tech	NEC	NEC-CVL	RECEPTIONIST NOT RESPONDING PROPERLY TO PARENTS. ALWAYS USING HARSH WORDS AND RUDE FACE	RECEPTION	CCM	MOHANRAJ E.K-9942794011	Reception	Completed
240390	24/01/2020	Tech	NEC	NEC-CVL	TO PARENTS. RECEPTIONIST NOT RESPONDING PROPERLY ALWAYS USING HARSH WORDS AND RUDE FACE.	RECEPTION	CCM	MOHANRAJ E.K-9942794011	Reception	Completed
251473	23/01/2021	Tech	NEC	NEC-MECH	Expecting decent response from reception	IV Mech Class (Reception)	CCM	AK VELUSAMY - 9942989355	Reception	Completed
251477	30/01/2021	Tech	NEC	NEC-EEE	RECEPTION-RESPONSE IS NOT PROPER	IEEE Class (Reception)	CCM	AK VELUSAMY - 9942989355	Reception	Completed

TABLE B 9.3k Feedback and action taken report for new requirements



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SNo	Date	campus	Institution	Department	Facility	Location	Category	Staff Name	work nature	Work Status
240280	24/09/2020	Tech	NEC	NEC-EEE	WINDOW SCREEN HAS TO BE FITTED PROPERLY - IN08	BLOCK IV-EEE DEPARTMENT- SECOND FLOOR-ROOM NO 202	Complains	ARUNKUMAR V-8526333032	New Requirement	Completed
240281	24/09/2020	Tech	NEC	NEC-MECH	Need drinking water in ground floor	Block-1 ground floor	CCM	MURTHI MK	New Requirement	Completed
240282	24/09/2020	Tech	NEC	NEC-MECH	Need drinking water in ground floor	Block-1-II Mech A Class	CCM	MURTHI MK	New Requirement	Completed
240284	24/09/2020	Tech	NEC	NEC-MECH	Need water purifier in ground floor	Block-1-Ground floor	CCM	MURTHI MK	New Requirement	Completed
240285	24/09/2020	Tech	NEC	NEC-MECH	First aid box materials not available	Block-1-II Mech A&B Class	CCM	MURTHI MK	New Requirement	Completed
240286	24/09/2020	Tech	NEC	NEC-MECH	Additional drinking water facility needed.	Block-1	CCM	MURTHI MK	New Requirement	Completed
240390	24/09/2020	Tech	NEC	NEC-MECH	Need Drinking water in ground floor and second floor	Block-1	CCM	MURTHI MK	New Requirement	Completed
240391	30/09/2020	Tech	NEC	NEC-MECH	change powerline in TV Room	Block1 205 Class Room	Complains	MURTHI MK	New Requirement	Completed
240735	25/02/2020	Tech	NEC	NEC-EEE	need window screen.	EEE-M	CCM	SATHEESH A-9750722999	New Requirement	Completed
251324	6/2/2021	Tech	NEC	NEC-EEE	NEED TWO SLIDING DOOR FOR WINDOW IN STAFF CABIN	BLOCK IV-EEE DEPARTMENT- THIRD FLOOR-ROOM NO 303	New Requirement	ARUNKUMAR V-8526333032	New Requirement	Completed
254441	18/02/2021	Tech	NEC	NEC-EEE	NEED A NEW PRINTER FOR DEPT OF EEE	BLOCK IV-EEE DEPARTMENT- FIRST FLOOR-ROOM NO 301	New Requirement	ARUNKUMAR V-8526333032	New Requirement	Completed
262046	9/12/2021	Tech	NEC	NEC-MECH	Need PROJECTOR	Block Number 1 PG CAD Lab, Ground Floor	CCM	A K YELLUSAMY - 0342100025	New Requirement	Completed
260453	19/08/2022	Tech	NEC	NEC-MECH	White Board with stand	PG CAD Lab, Ground Floor	New Requirement	MIMANKANDAN M-3042637854	New Requirement	Completed
263455	19/08/2022	Tech	NEC	NEC-MECH	LCD Projector (1Nos) along with Projector Short Throw Wall Mount. Wall mounted pedestal fan required (3nos)	PG CAD Lab, Shed Number 1, Ground Floor.	New Requirement	MIMANKANDAN M-3042637854	New Requirement	Completed
263458	19/08/2022	Tech	NEC	NEC-MECH		PG CAD Lab, Shed Number 1, Ground Floor.	New Requirement	MIMANKANDAN M-3042637854	New Requirement	Completed
263453	19/08/2022	Tech	NEC	NEC-MECH	Fire Extinguisher (1nos)	PG CAD Lab, Shed Number 1, Ground Floor.	New Requirement	MIMANKANDAN M-3042637854	New Requirement	Completed
263460	19/08/2022	Tech	NEC	NEC-MECH	First Aid Wooden Box Required (1Nos)	PG CAD Lab, Shed Number 1, Ground Floor.	New Requirement	MIMANKANDAN M-3042637854	New Requirement	Completed
263551	19/02/2022	Tech	NEC	NEC-MECH	1 Table painting	Thermal Engineering Lab (Shed-8)	Complains	Balabalan S - 3578430736	New Requirement	Completed

TABLE B 9.3l Feedback and action taken report for mess issues

SNo	Date	campus	Institution	Department	Facility	Location	Category	Staff Name	work nature	Work Status
240092	24/01/2020	Tech	NEC	NEC-AGRI	Need to change food menu. Do not follow food time table properly.	Girls Hostel	CCM	GIRLS - SASIKALA 9095232168	Mess	Completed
240093	24/01/2020	Tech	NEC	NEC-AGRI	Hostel Food is insufficient in boys hostel.	Girls & Boys Hostel	CCM	GIRLS - SASIKALA 9095232168	Mess	Completed
240115	24/01/2020	Tech	NEC	NEC-AGRI		NRI 2 Hostel	CCM	3942216805	Mess	Completed
240116	24/01/2020	Tech	NEC	NEC-AGRI	Food is not tasty.		5 CCM	3942216805	Mess	Completed
240172	23/01/2020	Tech	NEC	NEC-IT	Biryani was not provided(22/1/2020) not following the menu. Not following the menu. Need more no. of chappathi	Girls hostel	CCM	GIRLS - SASIKALA 9095232168	Mess	Completed
240202	23/01/2020	Tech	NEC	NEC-IT		Girls hostel	CCM	GIRLS - SASIKALA 9095232168	Mess	Completed
240251	24/01/2020	Tech	NEC	NEC-MECH	Food supplied slowly around 8.30	girls hostel	CCM	GIRLS - SASIKALA 9095232168	Mess	Completed
240291	24/01/2020	Tech	NEC	NEC-MECH	Food is not provided in new menu wise	NRI 2 Hostel	CCM	3942216805	Mess	Completed
240292	24/01/2020	Tech	NEC	NEC-MECH	Labourers are not working in mess. Quality of food to be maintained. Dosa, Idly & Chappathi must be cooked well.	NRI2 hostel	CCM	3942216805	Mess	Completed
240774	24/02/2020	Tech	NEC	NEC-EEE		HOSTEL	CCM	SATHEESHA-9750722999	Mess	Completed

TABLE B 9.3m Feedback and action taken report for electrical and carpenter works



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263934	16/12/2021	Task	NEC	NEC-MECH	Table light not working (Count 1)	Block 1 - Second floor - Room No. 210	Compliance	MURUGAPANCIAN G S-9788283108	Electrical work	Completed
263935	16/12/2021	Task	NEC	NEC-MECH	Window screen cloth is damaged (Count 2) and window screen pipe is damaged (Count 1)	Block 1 - Second floor - Room No. 210	Compliance	MURUGAPANCIAN G S-9788283108	Carpenter	Completed
263948	04/12/2021	Task	NEC	NEC-MECH	TUBE LIGHT - 2 Nos.	BLOCK 1, GROUND FLOOR, MECHATRONICS LAB	Compliance	MUHAMMAD AJMAL KHAN M-994466186	Electrical work	Completed
263950	11/12/2021	Task	NEC	NEC-MECH	Wooden Board (20 Nos) is fixed to the table Computer Table, Size of the wooden board (0.5 foot of height and 1 foot of length)	PG CAD Lab, Shed Number 1, Ground Floor	New Requirement	M MANIKANDAN M-9942937854	Carpenter	Completed
263961	11/12/2021	Task	NEC	NEC-MECH	A.C not working (power supply need to provide)	PG CAD Lab, Shed Number 1, Ground Floor	Compliance	M MANIKANDAN M-9942937854	Electrical work	Completed
263970	22/02/2022	Task	NEC	NEC-MECH	LAC not working (head fit)	Block 1 PG cad lab ICT principal room opposite	MAINTENANCE	EASWARAMOORTHIM-9842013255	Electrical work	Completed
263970	22/02/2022	Task	NEC	NEC-MECH	LAC not working (head fit) cooperate electrical switch control for	Block 1 PG cad lab ICT principal room opposite	MAINTENANCE	EASWARAMOORTHIM-9842013255	Electrical work	Completed
263978	31/12/2021	Task	NEC	NEC-MECH	WOODEN BOARD (20 Nos) is fixed to the table Computer Table, Size of the wooden board (0.5 foot of height and 1 foot of length)	Shed number 1 Ground floor	New Requirement	M MANIKANDAN M-9942937854	Electrical work	Completed
263985	15/02/2022	Task	NEC	NEC-MECH	THERMAL LAB SHEET NO 8 TUBELIGHT MACHINE WATER LEAKAGE 2 H.P. BLOWER MACHINE - EP LINE PROBLEM	THERMAL LAB SHEET NO 8	Compliance	Estabithan S - 9779498786	Electrical work	Completed
263988	15/02/2022	Task	NEC	NEC-MECH	TUBS BOX CHANGE	SHEET NO 1	New Requirement	EASWARAMOORTHIM-9842013255	Electrical work	Completed
263981	19/03/2022	Task	NEC	NEC-EEE	FUSED TUBELIGHT HAS TO BE REPLACED-1 NOS	BLOCK N-EEE DEPARTMENT-SECOND FLOOR-ROOM NO 202	Compliance	ARUNKUMAR Y-8526333032	Electrical work	Completed
263982	19/03/2022	Task	NEC	NEC-EEE	FUSED TUBELIGHT HAS TO BE REPLACED-2 NOS	BLOCK N-EEE DEPARTMENT-THIRD FLOOR-ROOM NO 301	Compliance	ARUNKUMAR Y-8526333032	Electrical work	Completed
263983	19/03/2022	Task	NEC	NEC-EEE	FUSED TUBELIGHT HAS TO BE REPLACED-1 NOS	BLOCK N-EEE DEPARTMENT-THIRD FLOOR-ROOM NO 306	Compliance	ARUNKUMAR Y-8526333032	Electrical work	Completed
263984	19/03/2022	Task	NEC	NEC-EEE	FUSED TUBELIGHT HAS TO BE REPLACED-1 NOS	BLOCK N-EEE DEPARTMENT-THIRD FLOOR-ROOM NO 307	Compliance	ARUNKUMAR Y-8526333032	Electrical work	Completed
263985	19/03/2022	Task	NEC	NEC-EEE	FAN ROTATING SLOWLY-NEED TO CHANGE THE CAPACITOR	BLOCK N-EEE DEPARTMENT-FOURTH FLOOR-STAFF ROOM-405A	Compliance	ARUNKUMAR Y-8526333032	Electrical work	Completed
263986	20/03/2022	Task	NEC	NEC-EEE	NEED TO CHANGE THE CAPACITOR OF THE FAN-10 NOS	BLOCK 4-EEE DEPARTMENT, 4TH FLOOR-STAFF CADING	Compliance	ARUNKUMAR Y-8526333032	Electrical work	Completed

TABLE B 9.3n Feedback and action taken report for maintenance work

262570	19/11/2021	Task	NEC	NEC-EEE	NEED TO FIT THE ALUMINIUM PARTITION PROPERLY-2 NOS	BLOCK 4-EEE DEPARTMENT-SECOND FLOOR-MACHINES LAB	Compliance	ARUNKUMAR Y-8526333032	Maintenance	Completed
262572	19/11/2021	Task	NEC	NEC-EEE	NEED TO REPLACE THE DAMAGED 3 TYPE CHAIR-6 NOS	BLOCK N-EEE DEPARTMENT-THIRD FLOOR	Compliance	ARUNKUMAR Y-8526333032	Maintenance	Completed
262585	25/11/2021	Task	NEC	NEC-EEE	NEED TO WELD THE BROKEN STEPS SUPPORT ROD	BLOCK N-EEE DEPARTMENT-FOURTH FLOOR-STAIRCASE	Compliance	ARUNKUMAR Y-8526333032	Maintenance	Completed
262601	3/12/2021	Task	NEC	NEC-MECH	Window screen cloth damaged (Count 4)	Block 1 (First floor - Room No. 102)	Compliance	MURUGAPANCIAN G S-9788283108	Maintenance	Completed
262654	5/12/2021	Task	NEC	NEC-MECH	Screen cloth damaged (Count 5)	Block 1 (First floor - Room No. 101)	Compliance	MURUGAPANCIAN G S-9788283108	Maintenance	Completed
262650	5/12/2021	Task	NEC	NEC-MECH	Window frame damaged (Count 1)	Block 1 (First floor - Room No. 103)	Compliance	MURUGAPANCIAN G S-9788283108	Maintenance	Completed
262670	5/12/2021	Task	NEC	NEC-MECH	Window screen damaged (Count 2)	Block 1 (First floor - Room No. 105)	Compliance	MURUGAPANCIAN G S-9788283108	Maintenance	Completed
262671	5/12/2021	Task	NEC	NEC-MECH	Window damaged (Count 1)	Block 1 (First floor - Room No. 102)	Compliance	MURUGAPANCIAN G S-9788283108	Maintenance	Completed
262674	5/12/2021	Task	NEC	NEC-MECH	Window screen damaged (Count 5)	Block 1 (First floor - Room No. 106)	Compliance	MURUGAPANCIAN G S-9788283108	Maintenance	Completed
262678	5/12/2021	Task	NEC	NEC-MECH	Window damaged and not working	Block 1 (First floor - Room No. 108) staff cabin	Compliance	MURUGAPANCIAN G S-9788283108	Maintenance	Completed
262679	5/12/2021	Task	NEC	NEC-MECH	Window screen damaged (Count 5) and Window pipe damaged (Count 2)	Block 1 (First floor - Room No. 100) staff cabin	Compliance	MURUGAPANCIAN G S-9788283108	Maintenance	Completed
262680	5/12/2021	Task	NEC	NEC-MECH	Window screen cloth damaged (Count 6) and window pipe damaged (Count 2)	Block 1 (First floor - Room No. 110) staff cabin	Compliance	MURUGAPANCIAN G S-9788283108	Maintenance	Completed
262683	10/12/2021	Task	NEC	NEC-MECH	Window screen not working (Count 5)	Block 1 - Ground floor - CAD/CAM Lab	Compliance	MURUGAPANCIAN G S-9788283108	Maintenance	Completed
262687	10/12/2021	Task	NEC	NEC-MECH	Need system rolling chair services	Block 1 - Ground floor - CAD/CAM Lab	Compliance	MURUGAPANCIAN G S-9788283108	Maintenance	Completed
262700	10/12/2021	Task	NEC	NEC-MECH	Window abuser damaged (Count 2)	Block 1 - Ground floor - Mechatronics Lab Room No. 001	Compliance	MURUGAPANCIAN G S-9788283108	Maintenance	Completed
262690	5/12/2021	Task	NEC	NEC-MECH	Excess chlorine is added in drinking water	MECHANICAL BLOCK	OCM	A K VELLUSAMY - 9942993955	Maintenance	Completed
262691	5/12/2021	Task	NEC	NEC-MECH	Need chlorine regularly	MECHANICAL II YEAR	OCM	SONTHIL NATHAN-0042607605	Maintenance	Completed
263011	16/12/2021	Task	NEC	NEC-MECH	Window lock damaged (Count 3)	Block 1 - Ground floor Room No. 003 (First sub lab)	Compliance	MURUGAPANCIAN G S-9788283108	Maintenance	Completed
263012	16/12/2021	Task	NEC	NEC-MECH	Window lock damaged (Count 3)	Block 1 - Ground floor - Room No. 004	Compliance	MURUGAPANCIAN G S-9788283108	Maintenance	Completed

TABLE B 9.3o Feedback and action taken report for plumbing work



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SNo	Date	campus	Institution	Department	Facility	Location	Category	Staff Name	Work nature	Work Status
25074	30/03/2021	Tech	NEC	NEC-EEE	WATER IS LEAKING FROM THE FOURTH FLOOR WASHBASIN TO GENTS REST ROOM IN THIRD FLOOR	BLOCK IV-EEE DEPARTMENT-THIRD FLOOR-GENTS REST ROOM	Complaints	AFUNKUMAR V-852633002	Plumbing work	Completed
25163	31/03/2021	Tech	NEC	NEC-EEE	Drinking water tap is not working. Need to replace the broken outlet pipe of the washbasin sink.	Block IV (Block 4 Near Final Year class)	CCM	SATHEESHA-976922369	Plumbing work	Completed
25172	31/03/2021	Tech	NEC	NEC-EEE	Wash Basin outlet pipe has been broken in ladies toilet	BLOCK IV-EEE DEPARTMENT-THIRD FLOOR-ROOM NO 304	Complaints	AFUNKUMAR V-852633002	Plumbing work	Completed
25173	31/03/2021	Tech	NEC	NEC-EEE	NEED TO CLAMP THE WATER PIPE ON THE WALL	BLOCK IV-EEE DEPARTMENT-SECOND FLOOR-LADIES REST ROOM	Complaints	AFUNKUMAR V-852633002	Plumbing work	Completed
25189	27/04/2021	Tech	NEC	NEC-EEE	WATER IS LEAKING FROM THE FOURTH FLOOR WASHBASIN TO GENTS REST ROOM IN THIRD FLOOR	BLOCK IV-EEE DEPARTMENT-THIRD FLOOR-GENTS REST ROOM	Complaints	AFUNKUMAR V-852633002	Plumbing work	Completed
25214	27/09/2021	Tech	NEC	NEC-EEE	NEED TO FIT THE TUBE IN URINARY BOWL-UMCS	BLOCK IV-EEE DEPARTMENT-THIRD FLOOR-GENTS TOILET-304	Complaints	AFUNKUMAR V-852633002	Plumbing work	Completed
25256	31/10/2021	Tech	NEC	NEC-EEE	Tank of cistern in restroom not working	Block 7 (First floor - Gents toilet)	Complaints	MURUGAPANDIAN G S-9718223709	Plumbing work	Completed
25282	31/12/2021	Tech	NEC	NEC-MECH	Wash basin tap not working (Court 2)	Block 7 (First floor - Gents toilet)	Complaints	MURUGAPANDIAN G S-9718223709	Plumbing work	Completed
25283	31/12/2021	Tech	NEC	NEC-MECH	Change the wash basin (front of ladies toilet to another place in the same floor)	Block 7 (First floor - front of gents toilet)	Complaints	MURUGAPANDIAN G S-9718223709	Plumbing work	Completed
26308	31/12/2021	Tech	NEC	NEC-MECH	Water tap not working	Block 7 - Second floor	Complaints	MURUGAPANDIAN G S-9718223709	Plumbing work	Not Possible
26320	2/3/2022	Tech	NEC	NEC-MECH	Water tap not working	Block 7 - First floor - Gents Toilet	Complaints	MURUGAPANDIAN G S-9718223709	Plumbing work	Completed
26388	31/03/2022	Tech	NEC	NEC-EEE	WATER LEAKING THROUGH PIPE FROM FOURTH FLOOR TO THIRD FLOOR GENTS REST ROOM	BLOCK IV-EEE DEPARTMENT-THIRD FLOOR-GENTS REST ROOM	Complaints	AFUNKUMAR V-852633002	Plumbing work	Completed
26422	22/04/2022	Tech	NEC	NEC-EEE	WATER IS NOT COMING IN THE LADIES RESTROOM AND WASHBASIN SINK	BLOCK IV-EEE DEPARTMENT-SECOND FLOOR-LADIES REST ROOM	Complaints	AFUNKUMAR V-852633002	Plumbing work	Completed

SNo	Date	campus	Institution	Department	Facility	Location	Category	Staff Name	Work nature	Work Status
240287	24/01/2020	Tech	NEC	NEC-MECH	Bike parking - Security needed	Inside collage	CCM	MURTHI M K.	Security	Completed
240336	23/01/2020	Tech	NEC	NEC-CHEM	Safety issues in students two wheeler stand	Security	CCM	Chemical Engineering 994248882	Security	Completed
240759	25/02/2020	Tech	NEC	NEC-CHEM	Securitys at NEC gate should behave with respect to students	CHEMICAL-I	CCM	Chemical Engineering 994248882	Security	Completed
240805	25/02/2020	Tech	NEC	NEC-CHEM	Safety issues in students two wheeler stand	CHEMICAL-II	CCM	Chemical Engineering 994248882	Security	Completed

TABLE B 9.3p Feedback and action taken report on Security



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## NANDHA EDUCATIONAL INSTITUTIONS HOSTEL COMMITTEE MEETING MINUTES-NRI II

Ref. No: NEI / HCM /2019-20/02

Date: 19.09.19

The Second hostel committee meeting for the NRI-II HOSTEL was conducted on 18.09.2019 (Wednesday) at 5.00Pm in Hostel mess, headed by the committee chair chairperson Dr. C.N.Marimuthu, Dean/R&D. The Warden and Deputy Wardens had attended the meeting along with the student representatives of the NRII Hostel. The following points were discussed in the meeting.

S.NO	Student Complaints	Committee Solutions
1	Need to provide additional water heater for bathing in each floor.	After discussion with Management and material manager, this facility will be provided.
2	Rooms and Bathrooms are not cleaned properly.	Maintenance workers will be insisted to clean the bathrooms properly. Warden should monitor the same
3	Bathroom door lock complaint in 3 <sup>rd</sup> floor.	Maintenance (carpentry) work will be carried out immediately.
4	Insects problem in hostel.	Pest control measures will be taken immediately.
5	Need big dustbins and Floor mats in all floors.	After discussion with A.O and Maintenance Manager, it will be provided.
6	Staircase grill need to be painted.	After discussion with A.O and Maintenance Manager, painting work will be carried out.
7	In few rooms, window glass to be replaced.	Window glass replacement work will be carried out shortly.
8	R.O water points for drinking needs to be placed in all floors.	Water points will be provided in all the floors.
9	Water doctor need to be cleaned periodically.	Water doctor will be cleaned weekly once. Warden will ensure the completion of work.
10	Frequently power cut in the first floor	Electrical complaints will be rectified immediately.

*P. V. - 19/09/19*  
**Hostel Committee Meeting Minutes In charge**  
 Mr.P.Vinothkumar. NRI-II  
 ASP/ECE

Copy To:.

1. The File
2. The CEO, Nandha Educational Institutions.
3. The Secretary, Nandha Educational Institutions.
4. The Principal, Nandha Engineering
5. The AO, Nandha Tech Campus.

*C.N. Ma - 19/9/19*  
**Committee Chairperson**  
 Dr.C.N.Marimuthu, DEAN/R&D

**TABLE B 9.3p Feedback and action taken report on Hostel Committee meeting**



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ENGINEERING COLLEGE (Autonomous)

## Feedback through Grievance Redressal Cell

Grievance Redressal Cell was started in the year 2014. At the beginning, Oral and written complaints were received in person. During the lunch hours, coordinator was available at the Grievance Cell to receive complaints. Students are given freedom to express their Grievances related to Academic and non-Academic.

In the year 2015, suggestion boxes were kept at all the Department to collect the complaints. In the year 2018, it is decided to get the complaints from the Students, Alumni, Parents, Faculty and other staff through online mode. This information was passed to student by sticking a paper in suggestion boxes in all the departments and displaying a Flex Board on near Principal Office.

URL : <http://www.nandhaengg.org/grievance>

The coordinator will monitor the complaints on the website and arranges a meeting for grievance Redressal committee members. In the meeting, complaints were discussed by committee members and action was taken. Once complaint is redressed, it is updated in website.



### Grievance Redressal Committee



SRI NANDHA EDUCATIONAL TRUST was established in 1992 with the conscious efforts of Thiru VISHANMUGAN, B.Com, an eminent professional cum industrialist and a philanthropist par excellence. He is a leader with foresight and integrity. His vision is to enrich education, to promote the interests of students in rural areas, to offer them easy access of quality higher education and to build confidence in them to prove their realm of success. The trust functions with Thiru VISHANMUGAN, B.Com, as Chairman cum Managing trustee and his family members as trustees, thereby sharing the commitment in the pursuit of excellence in all things as a life-long endeavour. It is due to extraordinary vision, enthusiasm and foresight of our chairman, the trust could establish many institutions in a short period. Nandha Engineering College is one of the top 5 engineering colleges in Erode, Tamilnadu.



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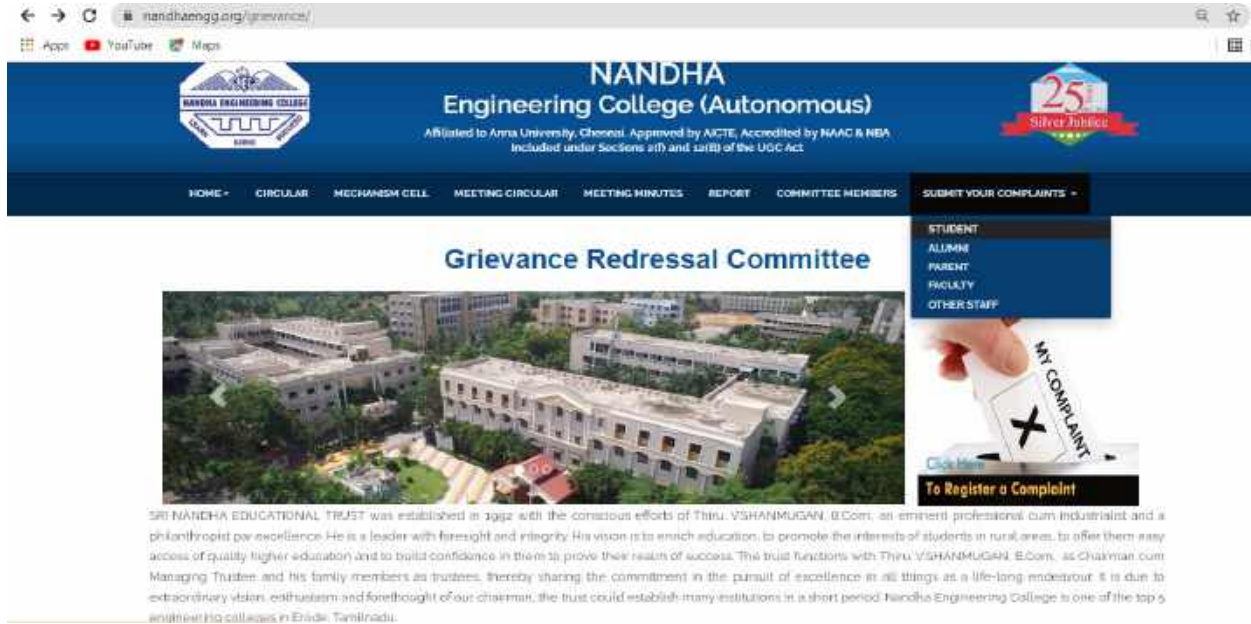


FIGURE B 9.2.2r Student complaint process





## NANDHA ENGINEERING COLLEGE (Autonomous)

Affiliated to Anna University Chennai \* Approved by AICTE \* Accredited by NBA-New Delhi  
Pitchandampalayam (P.O), Vaikkalmedu, Erode-Perundurai Road, ERODE -638 052.  
Phone: 04294-225585, 223711, 223722, 226393, Fax: 04294-224787



Website : [www.nandhaengg.org](http://www.nandhaengg.org)

E-Mail: [info@nandhaengg.org](mailto:info@nandhaengg.org)

**Dr. N.Rengarajan , B.Sc., B.Tech.,M.E.,Ph.D.**  
PRINCIPAL

NEC/Cir/2019-20/764

Date: 05.02.2020

Time :12.30 AM

### CIRCULAR

Classification	ROUTINE	IMMEDIATE
Academic	Originator : PRINCIPAL	Circulated to : Deans and HODs

Sub: Grievance Redressal - Reg.

\*\*\*\*\*

This is to inform that Grievance Redressal Mechanism has been formulated in our college in order to register the grievances online. The link and the committee members of the Grievance Redressal Mechanism have been displayed near the Principal's office. All the Students and Staff members are asked to refer the same for further details.

**Register your Grievances @ URL : [nandhaengg.org/grievance](http://nandhaengg.org/grievance)**

Members Name	Email-id	Position
Dr. N. Rengarajan	<a href="mailto:principal@nandhaengg.org">principal@nandhaengg.org</a>	Chairperson
Dr. P. Jamuna / EEE	<a href="mailto:jamuna.ponnusamy@nandhaengg.org">jamuna.ponnusamy@nandhaengg.org</a>	Convener
Mr. A.K.Velusamy / AO	<a href="mailto:aotechcampus@nandhainstitutions.org">aotechcampus@nandhainstitutions.org</a>	Member
Dr. Saraladevi / ENG	<a href="mailto:headenglish@nandhaengg.org">headenglish@nandhaengg.org</a>	Member
Mr. C.Mani / CSE	<a href="mailto:mani.chinasamy@nandhaengg.org">mani.chinasamy@nandhaengg.org</a>	Member
Ms. C.Navamani / CSE	<a href="mailto:navamani.chinnasamy@nandhaengg.org">navamani.chinnasamy@nandhaengg.org</a>	Member
Mr. S.Muruganantham/MECH	<a href="mailto:muruganantham.somasundaram@nandhaengg.org">muruganantham.somasundaram@nandhaengg.org</a>	Member

  
PRINCIPAL

Copy To:

- All Deans' & HoDs for circulation among all students & faculty circulation.

**FIGURE B 9.2.2s Members of Grievance Redressal Cell**



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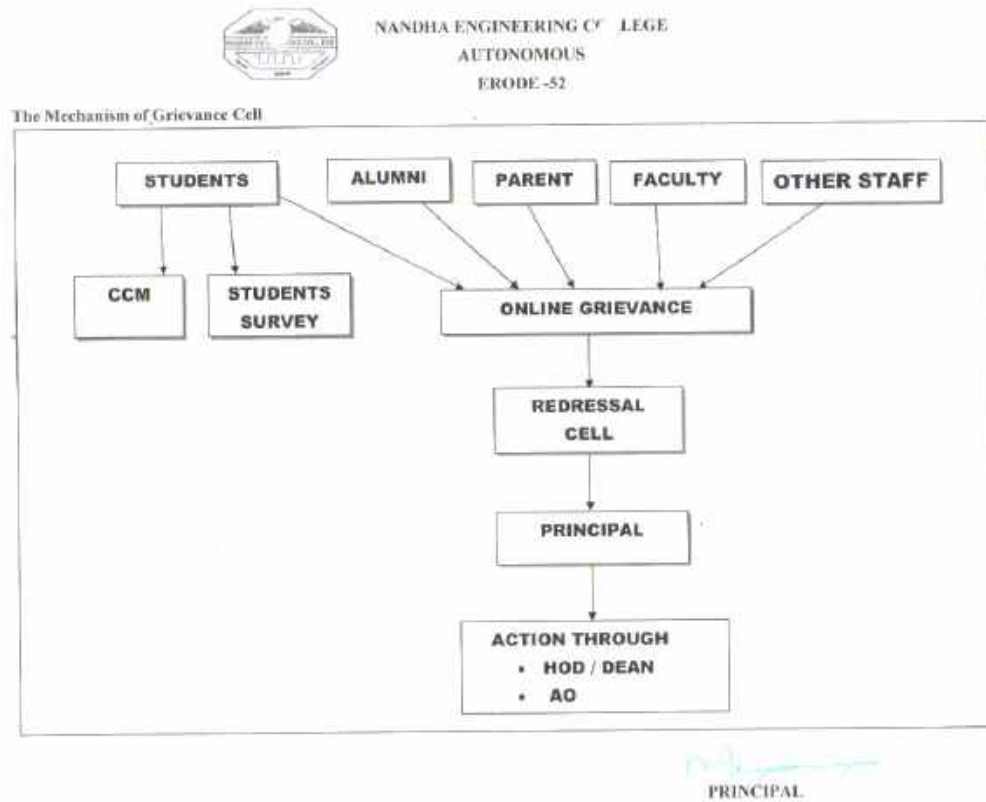



FIGURE B 9.2.t Grievances collection process


 NANDHA ENGINEERING COLLEGE  
 (An Autonomous Institution affiliated to Anna University Chennai and  
 Approved by AICTE, New Delhi)  
 Pitchandampalayam, Erode To Perundurai Road, Erode-638 052

Grievance Cell Meeting

Venue	Grievance Cell
Date & Time	3/19/2021, 1p.m.
Members attended:	Dr. N. Rengarajan Dr. P. Jambona / EEE Mr. A.K.Velusamy / AO Dr. Sornaladevi / ENG Mr. C.Mani / CSE Ms. C.Navamani / CSE Mr. S.Muruganathan/MECH

> The Complaint(s) received are as follows:

Variety of fresh juice can be provided at the canteen.

> Action Taken :

This issue is discussed with A.O.

  
 PRINCIPAL

FIGURE B 9.2.2u Grievance Cell Meeting



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## NANDHA ENGINEERING COLLEGE, ERODE-52

(Autonomous)

### GRIEVANCE REDRESSAL CELL

#### CIRCULAR

Date :18-Mar-21

The Grievance Redressal Committee meeting will be held on 19-Mar-21 at 1.00 pm. All the Committee Members are requested to attend the Meeting in the Block III Grievance Redressal Cell Positively.

P. Jamuna  
Convener  
18/3/21

S.No	Member Name	Signature
1	Dr. N.Rengarajan	
2	Dr.P.Jamuna ( EEE)	
3	Mr. A.K.Velusamy (AO)	
4	Dr.V. Saraladevi (ENG)	
5	Mr. C.Mani (CSE)	
6	Ms. C.Navamani (CSE)	
7	Mr. S.Muruganatham (MECH)	

**FIGURE B 9.2.2v Grievance Cell Circular**

Name	Type	Department	Status	Year	Complaints	Date	Completed Date	Action Taken
Student	Electrical & Electronics	Completed	Third Year	variety of fresh juice can be provided at the canteen.	17 - March - 2021	29 - March - 2021	variety of fresh juice are provided as asked.	
Student	Mechanical	Completed	Second Year	need to change the menu in lunch	12 - March - 2021	23 - March - 2021	Menu Changed	

**FIGURE B 9.2.2w Action Taken Report**



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## 9.4 Self Learning

(5)

### Self-Assessment (5)

The following provisions are given in the regulations to promote self-learning.

- A student can opt a course (maximum of two courses) under Self-Study mode (Preferably from 7<sup>th</sup> semester), which may be either an Open Elective (OE) or a Programme Specific Elective (PSE) on specific approval of committee constituted by the Chairman Academic council provided the student has CGPA of 7.5 & above, with no standing arrears.
- The students shall study on their own under the guidance of a faculty member approved by the Head of the Department who will be responsible for the periodic monitoring and evaluation of the course.

Further, the Institute provides following facilities for self-learning.

1. Digital library service with e-book and online journals
2. High speed internet facility for NPTEL online course
3. Digital videos, MOOCs, Podcast, Webinars
4. Centre for Innovation and Product Development (CiPD)
5. Centre of Excellence for Advanced Communication Technologies (CEACT)

#### 9.4.1 Library facility:

Nandha Engineering Central Library (NECL) is fully automated and specially designed to motivate the learning experience of faculty members and students community. It functions in three storied building with an area of 1080 square feet. The collection of Library books has reached around 59145 volumes related to Computer Science and Engineering, Electrical, Electronics and Communication, Mechanical, Civil, Chemical, Agriculture, Biomedical Engineering and Business Administration. Library has been subscribing 235 International and National print journals for periodical section along with 80 technical magazines and 6 dailies.

A 50 inch TV is installed along with Doordharsan dish to telecast 32 educational channels launched by Swayam Prabha, for supporting Massive Open Online Course (MOOC) facility in the Periodical Section. The air-conditioned digital library is implemented with 32 desktop systems and 20 Laptops usable desk for accessing 200 IEEE, 2952 JGate, and 235 DELNET Proquest online journals, 8820 e-books, 31,535 Audio Visual courses and 9202 Conference Proceedings with back volumes. It can be accessed inside the campus on 24X7 basis



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via Wi-Fi. There are 2895 e-Books, 842 e- Journals and e-Magazines as CDs, DVDs and VCDs. It also includes more than 292 NPTEL courses for teaching and learning purposes. The library has a unique website which has been designed with the help of free accessible online open source like books, journals, magazines, career and skill development, projects, scholarships, competitive exam portals etc. by providing links. A Whatsapp group has been created for faculty members to deliver e-books, new arrivals, news clippings like article, educational reports, college news etc.

The library has 18 years digitalized question papers which is being send to faculty members and student community as per their request through mail ID. The library has procured unavailable and rare books by using membership with Developing Library Network (DELNET). Online Public Access Catalogue (OPAC) facility is available to facilitate online search of library sources by giving keywords like Title, Author, and Publisher etc. Circulation section includes issue, return and renewal by the users using their Identity card. Bar coding technology has been mapped with every user's Identity card and also with library software to speed up the circulation process. The accessing time of Library sources is from 9.00 am to 7.00 pm on all working days.

**TABLE B9.4.1a Department Library details**

S.NO	PROGRAMME	BOOKS		JOURNALS (Print)	
		TITLE	VOLUME	NATIONAL	INTER NATIONAL
1	Computer Science and Engineering	1248	4745	6	6
2	Information Technology	1032	3651	6	6
3	Electrical and Electronics Engineering	1363	5437	6	6
4	Electronics and Communication Engineering	1596	6018	6	6
5	Mechanical Engineering	1757	6305	6	6
6	Civil Engineering	866	3741	6	6
7	Electronics and Instrumentation Engineering	600	2763	0	0
8	Agriculture Engineering	254	905	6	6
9	Chemical Engineering	325	1189	6	6



10	Biomedical Engineering	251	784	6	6
11	M.E – CSE	503	1723	6	6
12	M.E – EST	259	1078	6	6
13	M.E – ED	328	1299	6	6
14	M.E – VLSI	212	958	6	6
15	M.E – Structural Engineering	194	891	6	6
	<b>Total (Engineering and Technology)</b>	<b>10788</b>	<b>41487</b>	<b>80</b>	<b>80</b>
16	Science and Humanities	4110	7202	0	6
17	M.B.A	2759	6922	6	6
18	M.C.A	1383	5533	6	6
	<b>TOTAL</b>	<b>19040</b>	<b>61144</b>	<b>92</b>	<b>98</b>

#### 9.4.2 NPTEL online course

Students are permitted to register for NPTEL online courses, earn credits and avail exemption of elective courses in order to promote self-learning. The numbers NPTEL online course studied by the students are listed below.

**TABLE B9.4.2a NPTEL Course details**

Academic Year	NPTEL Course completed
2017-2018	3
2018-2019	47
2019-2020	34
2020-2021	26
2021-2022	66





- Aim at encouraging the enthusiasts in innovation.
- To identify the innovative young minds and energize them.
- Developing projects to obtain patent.
- Converting projects into marketable products in the national level competitions.
- To scope of getting funds for innovative projects.

### Outcomes

- Students knowledge level of doing projects are improved.
- The outstanding projects and products displayed during Innovation day are rewarded and awarded.

### Activities

- In house and external training on Innovation
- In house and external training on Entrepreneurial skills.
- Working on ideas and prototypes with mentors (teachers and trainers)
- Preparation for national-based competitions.

Organization of work -shops, seminars and conferences

### Innovative Projects:



**FIGURE B 9.4.3a Innovative project – Traffic light Lane detection and Alarm system in signal junction**



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**FIGURE B 9.4.3b Innovative project display – GoKart Vehicle**



**FIGURE B 9.4.3c Innovative project display – e-Bicycle**



**FIGURE B 9.4.3d Innovative project display – Pesticide Spraying Machine****FIGURE B 9.4.3e Innovative project display – RC Bomber Aircraft****FIGURE B 9.4.3f Innovative project display – Organic Farming**

Product Innovations, are those innovative solutions that are primarily aimed at selling tangible products (hardware + software + computing) to real-world customers who are willing to pay a price for the value delivered. Innovator usually develops technology or applies what is already available to solve a problem in a manner that creates gains, reduces losses, and brings about desired changes or generally desired outcomes to the target beneficiary. Product primarily

signifies the commercial nature of the innovation and also refers to the practical aspect that the financial upside of the innovation and for the innovator lies solely in the commercial success of the product in the market.

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**Products developed with the support of CiPD:****FIGURE B 9.4.3gOTP Based Security Locker**

The purpose of this product is to provide security in a modernized way. OTP based security locker will help admin of the locker to control it over internet, by means of sending e-mails. It consists of controller or single board computer. This system gives full permission to admin who is the owner of locker. Admin can add and remove WIFI networks by means of email to the locker. The system identifies admin by their email-id. In subject they have to send with their username and password followed by the command. The program can parse and separate contexts and check for authentication and execute the command if authentication passes. The OTP generated has only three minutes validity. So the accessibility is instant thereby reducing the security risk. The administrator should keep mail id safely, by using two step verification and monitoring devices accessed.





**FIGURE B 9.4.3hTapioca Harvester**

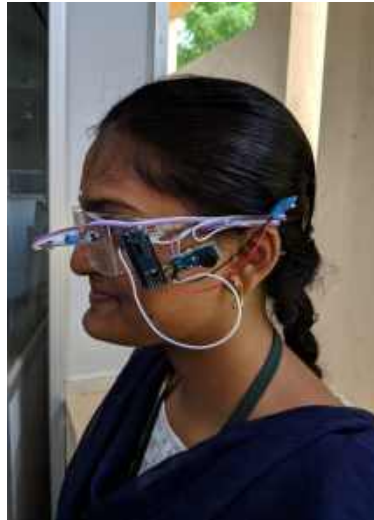
Tapioca, a starch extracted from cassava root is cultivated around the hill stations. It grows up to a height of seven feet. The cassava roots are very strong and it requires to be harvested assiduously when using hand. Large scale harvesters have harvesting attachments attached to the tractor. But it may damage the cassava, so the design is proposed to make a harvesting machine which will harvest the cassava without any damage and to make an effective equipment available at nominal prices. This harvesting machine consists of linkages and gears are used to harvest tapioca. By applying load by using leg on pedal it converted into rotational motion by rack and pinion mechanism. This load is converted into reciprocating motion with high torque by using various gear arrangement. This high torqued rotational motion again converted into reciprocation motion by using rack and pinion mechanism. Then it convert to required motion by using linkage arrangement. Cassava catch by using fixture. This fixture was activated by using linkage this activating link will activated by using hand it will be in near to left hand. Steering are provided to vehicle to control when moving in the field. These harvesting machines would be more helpful to farmers involved in low scale cultivation.



**FIGURE B 9.4.3iAutomation in Bio-Gas Plant**

Now-a-days our country has high demand for fuels. In order to solve this shortage of fuels problem, we have developed a novel project. Methane gas is one of the clean energy resource and it is one of the constituent of bio-gas which has a great potential to be used as an alternative fuel. The existing bio-gas plants consist of one digester and therefore the efficiency is low, and the pressure will vary due to climate changes. So, we have alternately prepared that automation in bio-gas plant for the better enhancement of efficiency and maintain the pressure level with cow dung and food waste by using two digesters. It is the novel and key idea in our project. This work was carried out to produce a known quantity of bio-gas in a static plastic tank by collecting different food waste from canteen and hostel in Nandha Engineering College and cow dung also used. As a result of this treatment the produced bio-gas can be used in our Chemical Engineering Department laboratory. The by product (slurry) can be used as a fertilizer for agricultural field.





**FIGURE B 9.4.3j Automatic Alert to Indicate Driver's Sleepy**

Accidents due to driver drowsiness can be prevented using eye blink sensors. The driver is supposed to wear the eye blink sensor frame throughout the course of driving and blinking has to be for a couple of seconds to detect drowsiness. Any random changes in steering movement leads to reduction in wheel speed. The threshold of the vibration sensor can be varied and accordingly action can be taken. The outcome is that the vibrator attached to eye blink sensor's frame vibrates.



**FIGURE B 9.4.3k Incinerator for Bio-Degradable Waste**

Incineration is a waste treatment process that involves the combustion of organic substances contained in waste materials. Waste destruction in a furnace is controlled by burning at high temperatures. Incineration removes water from Hazardous sludge, reduces its mass and volume, and converts it to a non-burnable ash that can be safely disposed on land, in some waters, or in under-ground pits.



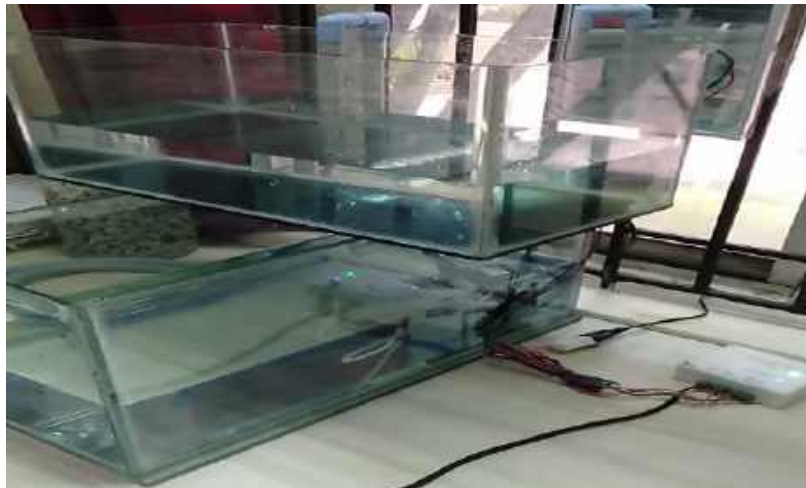
**FIGURE B 9.4.3I Design and Fabrication of Biodiesel using Waste Plastics**

Plastic is an indispensable part of our daily life. Its production and consumption has been rising very rapidly due to its wide range of application. Due to its non-biodegradable nature it cannot be easily disposed off. So, now a day's new technology is being used to treat the plastic wastes. One of such process is pyrolysis. Here the main consideration is the recovery of liquid products which composed of higher boiling point hydrocarbons. The waste plastic consists of high density polyethylene (HDPE). Pyrolysis appears to be a technique that is able to reduce a bulky, high polluting industrial waste while producing energy and valuable chemical compounds. The oil produced in a pyrolysis process is Pyrolysis oil. Pyrolysis oil is sometimes known as bio crude oil or bio oil. Materials such as PCB (Printed Circuit Board) and other plastic bags were collected from old and obsolete computers through local sources. The batteries, capacitors and other electronic devices from PCBs were mechanically removed. These boards were crushed using laboratory jaw crusher to get pieces in the size range of 3-5cm. Lower reaction temperature of 700-800 degree C. It lower operating cost, it increases safety and reduced maintenance.



**FIGURE B 9.4.3m Effective use of Waste Water in Toilet Basin**

It saves space. This would not mean much if you have a large house but for urban dwellers, especially those who live in apartments, space could be an issue and anything dual-purpose is more than welcome. It conserves water. The toilet-sink combo is a great way to contribute to the environment while maintaining proper hygiene. Speaking of hygiene, this brings us to my third reason – it keeps your hands clean. It should be common practice to wash your hands every time you use the toilet but some people tend to forget or get lazy. With the toilet-sink and urinal-sink combos, you have no excuse for not washing your hands.



**FIGURE B 9.4.3n Water Level Controller**

Water is wasted in larger amount because of human carelessness and also laziness to do some work. Water level controller controls the water level in a tank with float less design. Since

the floating mechanism is expensive, many people could not afford it so, this float less design would be cheaper and efficient.



**FIGURE B 9.4.3o Swadeshi Eco Filter**

Swadeshi Eco filter is an accessory made of recycled materials which can be used for filtering the rainwater collected from the roof and terrace of the building. It can be used as a filter media for the ultimate benefit of water conservation by means of rainwater harvesting during the rainy season to enjoy the fruitful beneficiary needs at the time of heavy summer and drought seasons. It provides excellent opportunity to collect the rainwater without any debris to store it directly in the sump and ready to use quality for various purposes.



WHEELCHAIR

E-TRICYCLE

E-BICYCLE

**FIGURE B 9.4.3p Innovative Project for Disabled Persons**

The electric bicycles are becoming more and more popular in the recent past preferably among elderly people. More recently people with disabilities are also showing interest towards this product because of the ease of moving from one place to another place. The investigation on literature revealed that the electric bicycle is having either 2 wheels or 3 wheels only, with a future scope of developing integrated 2 & 3- wheels electric cycle. The proposed design could be

used by normal persons as 2-wheeler and persons with disabilities as 3 -wheeler. The prototype model of electric bicycle was developed and tested. The proposed concept of a two- and three-wheeled electric bicycle with a motorised handle attachment provides better mobility solutions for disabled people as well as non-disabled people.

#### 9.4.4 Centre of Excellence/Industry supported Lab

The self-learning habituation is further inculcated through Centre of Excellence/Industry supported Lab established at various departments.

##### Department of Mechanical Engineering

M/s SAN ENGINEERING SOLUTIONS has supported to establish a Digital Product Design lab at college premises to enhance the students' skills in the field of Design. Industry is providing real industrial drawings for practice with latest software package and manpower support.



FIGURE B 9.4.4a Digital Product Design lab

##### Department of Electronics and Communication Engineering

Centre of Excellence for Advanced Communication Technologies (CEACT) activities carried out are

- Seminar, Workshop, Hands on Training



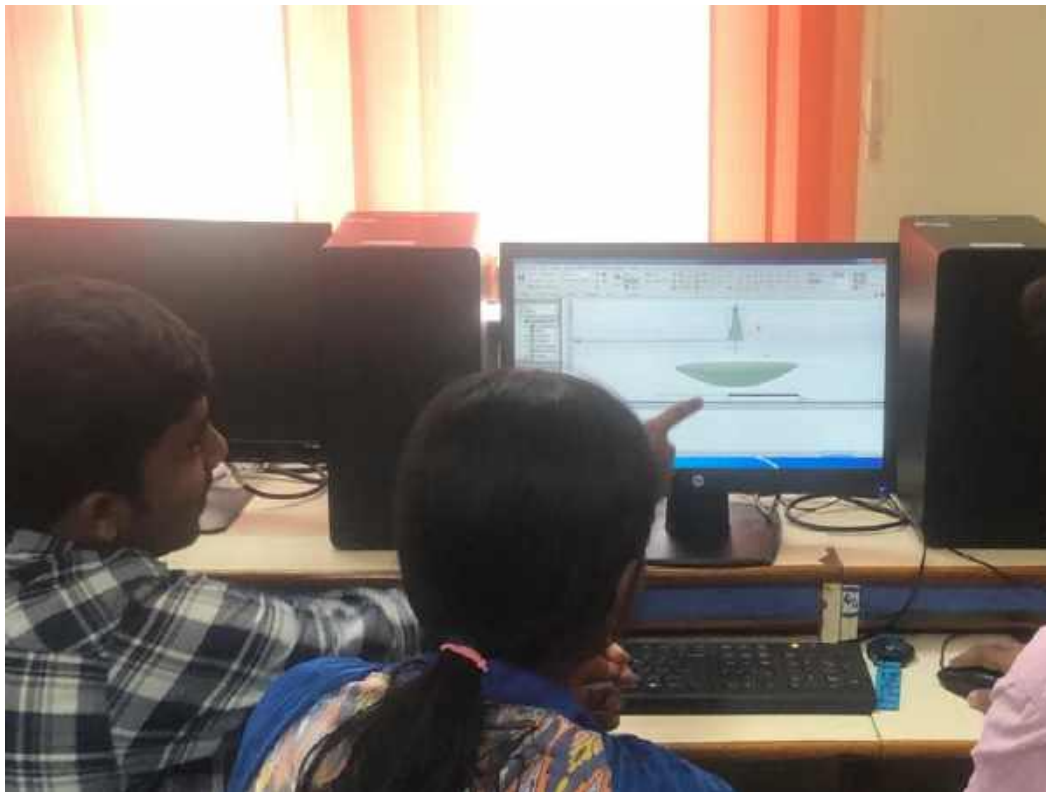
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- Research activities
- Final year projects



**FIGURE B 9.4.4b Workshop on Electromagnetics, Microwave, RF and Antenna Design**



**FIGURE B 9.4.4c Hands on Training in Antenna Design using Ansys HFSS Tool**





**FIGURE B 9.4.4d Seminar on Simulation of Antennas**

**Centre of Excellence for Embedded Systems (CEES) activities carried out are**

- **Seminar, Workshop, Hands on Training**
- **Research activities**
- **Final year projects**





**FIGURE B 9.4.4e Seminar on “ARM controllers & its Applications”**

### **Department of Computer Science and Engineering**

To meet the current demands of the industries, the department has taken initiatives to establish the Centre of Excellence. The department of Computer Science and Engineering has established a laboratory and given to NewGen software, Business process Management Company. Newgen Software is a global provider of business process management (BPM), enterprise content management (ECM), customer communication management (CCM) solutions with a footprint in 66 countries with large, mission-critical solutions deployed at banks, governments, BPOs & IT companies, insurance firms and healthcare.

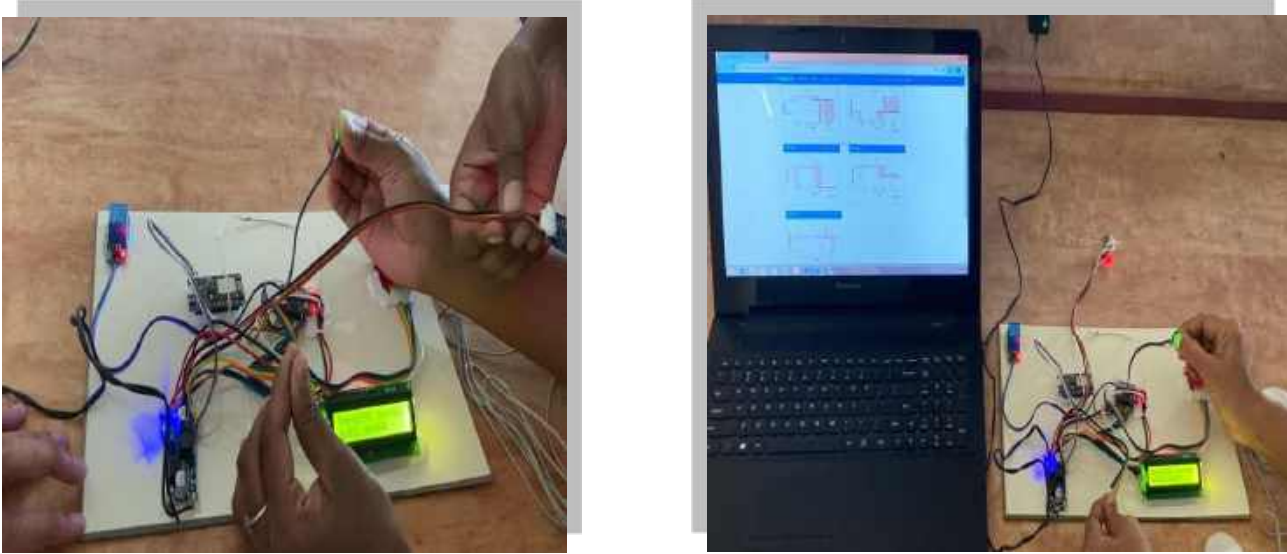


**FIGURE B 9.4.4f NewGen Laboratory**

### **Department of Electrical and Electronics Engineering**

Industry Supported Lab - M/s Kulothung Automotive Systems. Industry Supported Lab provides training, project guidance and placement opportunities.





**FIGURE B 9.4.4g Design And Implementation of RTC For Textile Automation**

### Content Beyond Syllabus

- Department Association, Professional Chapters and Students Association takes initiative to organize Conferences, Industry institute interaction Programmes. Workshops, Seminars and Invited Talks are frequently conducted for students by inviting experts from industries, reputed institutions and alumni.
- Special lectures, One credit course, Add-on courses, value added courses are conducted to address the content beyond syllabus and to bridge the curriculum gap.
- Student Centric Methods such as Experiential learning, Participative Learning and Problem Solving Methodology are used for enhancing Learning Experience.
- Students are encouraged to work with innovative ideas and shall focus on current technological trends to do their Seminars and Projects to acquire knowledge beyond syllabus.
- Technical Symposia are organized by the students which enable them to be aware of the new frontiers in engineering.
- Department organizes Industrial visits, Internships, IPT and support students to do Projects at industries to make them aware of the challenges in the industry.
- Students shall be encouraged to utilize resources like NPTEL and various e-learning materials and e-journals. The students shall be encouraged to attend various online courses and trainings to address the content beyond syllabus.



- National and International Conferences and expert talks shall be avenues for the students to enhance their technical knowledge and soft skills by interacting with the resource persons of expertise from various fields.
- National Service Scheme shall help students to take up socially relevant projects, thereby imparting social commitment and environmental awareness which is minimally addressed by the curriculum.

Students shall be encouraged to publish in-house technical Magazine and Newsletter which not only helps them to be aware of the recent trends in industry and research but also enhances the organizing skills.

### 9.5 Career Guidance, Training, Placement

(10)

Self-Assessment (10)

#### 9.5.1 Career Guidance Cell

Career Guidance cell caters the need for all the students in providing the orientation programmes and training in the following areas:

1. GATE Exam Orientation
2. IBPS-Orientation / Training
3. Abroad studies
4. Civil Services and other competitive exams

Orientation and training programs are arranged for the willing students and necessary support is provided by the subject experts available from industries and internal faculty members. Coaching classes are arranged to enable the students to get ideas and prepare themselves to pursue their higher studies in India and Foreign countries.

Programmes conducted through Career guidance cell are mentioned in the table below:

**TABLE 9.5.1a Event details of Career guidance cell**

S.No	Academic Year	Name of the Programme	Date	Resource
1	2021-2022	An Eye Opener Session on Civil Service Examination	08.04.2022	Mr. Ramesh A Aditya Head- Strategy, Shankar IAS Academy, Chennai.
2		Career Guidance on Cracking Competitive Examinations	26.05.2022	Mr. Sakthi Parthiban & Mr. Giridhiri Nagarajan Dheeran IAS Academy, Coimbatore



3	Higher Education opportunities for Chemical Engineers	21.12.2021	Mr. Thiagarajan Thirunavukkarasu, Director, T.I.M.E., Erode
4	Higher Education opportunities	21.12.2021	Mr. Thiagarajan Thirunavukkarasu, Director, T.I.M.E., Erode
5	Higher Education opportunities	02.12.2021	Mr. Thiagarajan Thirunavukkarasu, Director, T.I.M.E., Erode
6	Awareness on GATE exam	28.11.2021	Mr. V. Sathya Moorthy & Mr. R. Vivekanandan, GATE educator, Unacademy (PAN INDIA), Coimbatore.
7	Awareness on Government job opportunities for Engineering students	26.11.2021	Mr. V. Sathya Moorthy & Mr. R. Vivekanandan, GATE educator, Unacademy (PAN INDIA), Coimbatore.
8	Tips to crack GATE/Technical Exam for Chemical Engineers	24.11.2021	Mr. M. Ismail Shahib, Proprietor-ED-TECH-Gate Interactive Guidance, Palani
9	Future of Aviation and Cargo Industry & Employment Opportunities in India and abroad	31.12.2021	Veerababu M, Director, SACCA Institute of Frieght and Tourism (OPC) Private Ltd., Chennai.
10	Motivational Talk on Career Opportunities in Defense Services	17.12.2021	Captain K. Senthil Kumar (Retd), Indian Defense Service
11	Farm Entrepreneurship- The way forward	07.12.2021	Prof. R. M. Subramanian, department of Agriculture Engineering, Nandha Engineering College, Erode-52
12	Interview Techniques		Dr. P Urmila, Associate Professor &Head (PG), Department of English, Cauvery College for Women (Autonomous), Tiruchirappalli.
13	Language Acquisition in Diverse Linguistic and Social Circumstances	06.10.2021	Mr. I. Amal raj, Assistant Professor of English, Senthamarai College of Arts and Science, Madurai.
14	Employability Skills and its Importance	29.09.2021	Dr. V Sangeetha, Associate Professor of English, Mahendra Engineering College (Autonomous),



				Namakkal.
1	2020-2021	Career in Cyber Security	22.05.2021	Mr.G.Viswanathan, Security Analyst, Ernst & Young, Chennai.
2		Preparation Strategy for Competitive Exams & Higher Studies through GATE	20.05.2021	Mr.V.Sathyamoorthy, GATE Educator, Unacademy, Coimbatore.
3		Webinar on Innovation and Startup Scope in AI and ML	18.05.2021	Mr.K. Kamalahassan, Program Director, Optimis AI Sdn. Bhd., Federal Territory of Kualalumpur, Malaysia.
4		Motivational Speech on Career Guidance	05.08.2020	Ms. Nandhini Shanmugham, Assistant System Engineer, TCS, Bangalore.
5		Getting Ready for Professional Life	30.07.2020	Mr.Niravkumar Bhatt, Oil and Gas Professional, Qatar.
6		A Step Ahead	12.07.2020	Ms. N. Sujisha, Regional Manager, Genworks Health, Haryana.
1	2019-2020	GATE Exam Orientation/ Scholarship Test	24.09.2020	GATE FORUM, CBE
2		Orientation Programme CAT, MAT, & GRE	15.09.2020	Princeton Review, CBE
3		Higher Education in Foreign Universities	28.08.2020	The Chopras, CBE
1	2018-2019	GATE Exam Orientation Programme	27.09.2019	The GATE Academy
2		Higher Education in Abroad	14.09.2019	Edumatters by Mrs. Pavithra Rajesh
3		Civil Service Examination – Orientation	08.07.2019	Shankar IAS Academy
4		IBPS Exam – Introduction to Bank Exams and 15 Days Training Programme	15.07.19 to 30.07.19	CWJ Academy
1	2017-2018	GATE Exam Orientation for Mechanical Engineers	14.09.2018	Hi-Focus GATE Academy Ms.AswiniandMr.Nanbarasan
2		Class Room Orientation	21.06.2018	Hi-Focus Gate Academy



		for GATE		
3		GATE Exam Orientation	12.03.2018	Hi-Focus GATE Academy, Mr.Nanbarasan
4		Orientation Programme on IBPS	18.08.2017	Race Institute, Erode
5		Career Opportunities and Higher studies in Abroad	18.08.2017	WISA International Consultancy, Mumbai
6		GATE Exam Challenges	31.07.2017	GATE Forum
7		Higher Studies and Opportunities in NZ	28.07.2017	Mr.GilesBrooker, Newzeland
8		Higher Studies and Job Opportunities in UK	10.07.2017	Future Dream Consultancy
1	2016-2017	Higher Education in Abroad	22.09.2016	The Chopras, Coimbatore

### 9.5.2 Internship

The students are encouraged to do an internship in industries during vacation period and specifically, the students of final year are facilitated with long term internships in industries.

The student internships will provide them a scope to practice as an engineer on the floor. Initiatives and implementation details of industry internship / summer training are as follows:

- The students are encouraged to take up internship / In-plant training program during summer vacation
- Faculty help the students by interacting with the industrial experts and provide the necessary documents to the students to carry out the training

### Area for Improvements

- Inter-personal communication
- Placement in core companies
- Hands-on experience
- Scores secured in competitive exams like GATE, TANCET etc.

### Opportunity

- To take up industrial projects
- Scope for placement



**TABLE B9.5.2a Students Year wise Industrial Project /Internship count**

Academic Year	No. of students attended Industrial Project /Internship
2021-2022	199
2020-2021	357
2019-2020	355
2018-2019	148
2017-2018	333
2016-2017	194

**9.5.3 Research Attachment Programme at University TeknologiPetronas (UTP)- Malaysia****Objectives:**

- ✓ To get International Exposure
- ✓ To get domain specific knowledge

**Outcome:**

The students were in a position to equip themselves towards the industry and societal needs.

**TABLE B 9.5.3a Participation details for the Academic Year (2016-2017)**

S.NO	REG.NO	NAME OF THE STUDENT	BRANCH	DURATION OF INTERNSHIP
1.	13CS070	T.D.GIRIANANDHAN	CSE	01.12.2016 to 31.01.2017
2.	13CS094	S.SARATH	CSE	
3.	13EC061	M.PAVITHRA	ECE	
4.	13EC119	S.KARTHICK	ECE	
5.	13ME062	S.KISHORE	MECH	
6.	13CE051	B.GOKUL	CIVIL	







**FIGURE B 9.5.3a Internship team of Nandha Engineering College to UTP, Malaysia during (2016-17)**

**TABLE B 9.5.3b Internship participation details for the Academic Year (2017-2018)**

S.NO	REG.NO	NAME OF THE STUDENT	BRANCH	DURATION OF INTERNSHIP
1.	14CS003	A.S.AJAY KUMAR	CSE	20.02.2018 to 21.04.2018
2.	14CS037	A.MONIK RAJ	CSE	
3.	14CS069	K.SURUTHI YALYNY	CSE	
4.	14EC081	K.PRITHIKA	ECE	
5.	14EE043	K.MURALIDHARAN	EEE	
6.	14EE086	S.VIDHYA DEVI	EEE	
7.	14ME043	M.JASEEM MUHAMEED	MECH	
8.	14ME063	P.V.KAVIN KUMAR	MECH	
9.	14ME068	B.KUMARAVEL	MECH	
10.	14CE031	K.JAWAHAR	CIVIL	





**FIGURE B 9.5.3b Internship team of Nandha Engineering College to UTP, Malaysia during (2017-18)**

**TABLE B 9.5.3c Internship participation details for the Academic Year (2018-2019)**

S.NO.	STUDENT NAME	COMPANY NAME
1.	SURUTHIYALYNY K	University of Petranos, Malaysia.
2.	AJAY KUMAR A.S	University of Petranos, Malaysia.
3.	MONIKRAJ A	University of Petranos, Malaysia.
4.	PRAVEENKUMAR A	Inferon Online Services India Pvt. Ltd.
5.	VIMAL R.Y	Inferon Online Services India Pvt. Ltd.
6.	USHARANI M	Inferon Online Services India Pvt. Ltd.
7.	PAVITHRA M	Inferon Online Services India Pvt. Ltd.



8.	ARJUNAN K	Inferon Online Services India Pvt. Ltd.
9.	ABISHEK M	3 Mind Strategic Pvt. Ltd.
10.	AKSHAYA R	3 Mind Strategic Pvt. Ltd.
11.	ATHIRADEVI A	3 Mind Strategic Pvt. Ltd.
12.	MANIKANDAN R	3 Mind Strategic Pvt. Ltd.
13.	PARTHIBAN B	3 Mind Strategic Pvt. Ltd.
14.	SANTHOSH S	3 Mind Strategic Pvt. Ltd.
15.	TAMIZHARASI G	3 Mind Strategic Pvt. Ltd.

**TABLE B 9.5.3d Internship participation details for the Academic Year (2019-2020)**

S.NO	NAME	COMPANY NAME	INTERN DURATION
1	S.Ajith	Green Labs Solutions (Appranix R&D Center), Coimbatore	06.03.2019 to 03.05.2019
2	Bathri Akash	fAme Technologies, Bangalore	11/02/2019 to 11/08/2019
3	J.Akshaya	3 Mind Strategic Pvt. Ltd.	11.02.2019 to 30.05 2019
4	S. Nandhini	3 Mind Strategic Pvt. Ltd.	11.02.2019 to 30.05 2019
5	P.Sanmathi	3 Mind Strategic Pvt. Ltd.	11.02.2019 to 30.05 2019
6	P.Sangavi	3 Mind Strategic Pvt. Ltd.	11.02.2019 to 30.05 2019
7	Monalisha koley	3 Mind Strategic Pvt. Ltd.	11.02.2019 to 30.05 2019



**TABLE B 9.5.3e Internship participation details for the Academic Year (2020-2021)**

S.NO	NAME	COMPANY NAME	INTERN DURATION	STIPEND PER MONTH
1	S.Sivadharshini	Kumaran Systems	08.07.2019 to 30.07.2020	10000
2	J.Deena Mary	Kumaran Systems	08.07.2019 to 30.07.2020	10000
3	shankar sri babu	Kumaran Systems	08.07.2019 to 30.07.2020	10000
4	D.Arunkumar	New Gen Infotech Private Limited	June 2019 to June 2020	NIL
5	D.Goushiikh	New Gen Infotech Private Limited	June 2019 to June 2020	NIL
6	J.Tharani	New Gen Infotech Private Limited	June 2019 to June 2020	NIL
7	V. Boopathi	New Gen Infotech Private Limited	June 2019 to June 2020	NIL
8	P.Vishnu	New Gen Infotech Private Limited	June 2019 to June 2020	NIL
9	V. Chellapandian	New Gen Infotech Private Limited	June 2019 to June 2020	NIL
10	N.Tharunkumar	i-Gen Temenos	16.12.2019 to 30.05.2020	NIL
11	Indhu Mathi	Aerele Technologies Pvt. Ltd	26.09.2019 to 25.04.2020	8000

#### 9.5.4 Placement cell

There is a centralized placement cell functioning in the institution to arrange the placement training (aptitude and soft skill training) and campus recruitment for students. In addition to this separate placement coordinators are assigned for each department to facilitate the process (placement training, group discussion, mock interview).

A duty schedule for all the department placement coordinators as well as for few other faculty members are prepared for the effective conduction of training programme.

The coordinator should spend time with batch allocated to them during the whole training duration.

The placement cell offers guidance regarding the career opportunities in each fields based on interests and attitude. It provides information regarding various companies scheduled for



placement drives. The departments invite their alumni to offer the career guidance to the students.

An external consultant also offers guidance to interested students during his visits to campus. Students interested in pursuing higher studies in India or abroad registered higher education cell, which provides guidance by disseminating information about reputed universities, application process, and scholarships available.

### **Placement Department**

**Placement Coordinator:** **Mr. K. Ve. Prabhu,**  
Head Corporate Relations,  
Nandha Educational Institutions.

**Mr. S. Sivaramakrishnan**  
Head Training and Development  
Nandha Engineering College.

**Placement Trainee:** Ms. S. Ramya  
Ms. K. Darani  
Ms. M. Usharani

### **Department wise Placement Coordinator**

Mr. V.Manimaran AP/CSE  
Mr. G.Rathanasabhpathy AP/ECE  
Mr. M.N. Shrigowtham AP/IT  
Mr. S.K. Gowtham AP/Civil  
Mr. T.JayakumarAsP/EEE  
Mr. S.Jagadeesan AP/CSE  
Mr. M. Mohamed AjmalMahasin AP/Mechanical  
Mr. G. Praveen Santhoshkumar AP/EIE  
Mr. J.Tamilarasu AP/MBA

### **Pre-Placement training:**

Company accesses the students in verbal, aptitude, reasoning, spoken, written English and programming skills. Hence a schedule is planned in such a way for final year students in the beginning of academic year to focus on verbal, aptitude and reasoning. This program caters to the placement aspect of Engineering students.



TABLE B 9.5.4a Pre-Placement training activities

Day	Verbal	Aptitude & Reasoning
1	Parts of Speech	Problem on Numbers, Series Completion
2	Tenses	Average, Odd Man Out, Calendar
3	Subject verb Agreement	Age, Clock
4	Degrees	Ratio & proportion
5	Articles, Anology	Partnership, Directions
6	Preposition, One word Substitutions	Percentage, Coding Decoding
7	Conjunction, Blood Relation	Profit & Loss, Seating arrangements
8	Modals	Mixture
9	Error Spotting, Sentence Correction	SI & Venn Diagram
10	Completing Statements	CI
11	Idioms & phrases, Confusable Words	Time & Distance,
12	Jumble Sentences	Train & Boats
13	Reading Comprehension, Data Interpretation	Time & Work
14	Antonyms, Synonyms, Spell Check (Odd one out Combination)	Pipes and Cistern
15	Theme Detection, Data Sufficiency,	Permutation & Combinations,
16	Statement & Conclusion and Syllogism	Probability
17	Statement & Assumption	Logical Equivalent, Matrix Representation, Non-Verbal reasoning,



**Department wise placement status:****TABLE B 9.5.4b Department Placement Status**

YEAR	ECE	CSE	IT	MBA	CIVIL	EEE	EIE	MCA	MECH
2021-22	59	88	44	18	16	66	-	5	93
2020-21	53	58	23	20	16	23	5	7	143
2019-20	53	45	32	15	16	17	4	21	111
2018-19	62	69	31	26	57	35	12	15	136
2017-18	79	56	13	25	67	50	5	17	113

The Training and Placement Cell of NEC organizes placement day celebrations to honour the recruiters as well as the students who have been placed through the campus interviews organized by the college, on its campus at NEC.

**FIGURE B 9.5.4a Placement Day****9.6 Entrepreneurship****(5)****Self Assessment (5)**

*(The institution may describe the facility, its management and its effectiveness in encouraging entrepreneurship and incubation).*

Entrepreneurship development cell strives to inspire and integrate a culture of innovation through a conducive entrepreneurial ecosystem to help budding entrepreneurs realize their dream to start up their own enterprises. It refines the entrepreneurial skills like idea generation, opportunity evaluation, business modeling, cash flow, forecasting, negotiation and sales skills through hands on training, programs, mentoring and campus startups. Further, it facilitates incubating innovations through various schemes. It works towards building the leadership skills

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among the students to enhance their entrepreneurial competencies. It is functioning to motivate the students to become entrepreneurs and thus to make them job providers rather than job seekers.

**Coordinator:** Mr.J.Tamilarasu, Assistant professor/ MBA

### 9.6.1 Objectives of EDC:

- To develop and nourish the entrepreneurial spirit which is inherent in every learner and help them gain a broader and more importantly, entrepreneurial perspective of looking at life in every situation thus empowering them to excel as entrepreneurs.
- To foster culture of entrepreneurship among students.
- To conduct orientation and awareness programmes and to attract students into establishing their own enterprises.

### 9.6.2 Mile stones in the activities of EDC:

- The Cell has conducted Entrepreneurship Awareness Camps(EACs) sponsored by **Department of Science and Technology(DST)**, Ahmedabad during Academic Years 2013-2014, 2014-2015, 2015-2016, 2016-2017, 2017-2018
- The cell has extended support to create awareness for EAC Phase I for Final years and EAC Phase II for Pre-Final years.
- Recently, for the academic year 2019-2020, Rs. 40,000/- is sanctioned to conduct two phases of ED Awareness Camps received through DST-NIMAT sanction letter dated 12<sup>th</sup> August 2019.

### 9.6.3 Activities in EDC:

**TABLE B 9.6.3a Event Details for the Academic Year 2021-2022**

S.No	Date	Programme	Resource Person
1	20.12.2021 TO 22.12.2021	ENTREPRENEURSHIP AWARENESS CAMP	<b>Mr.V.Raja</b> Proprietor Sri Bannari Amman Home Care, Salem. <b>Mr.Jc.L.Sampath Kumar</b> Managing Director, Nallakadai Managing Partner, South India Organic Farms, Erode. <b>Mrs.Priya Nirmalkumar</b> Proprietor Sri Devi Stores





			<p>Erode.  <b>Prof.K.Gunasekar,</b>  Head Department of Computer Science &amp; Engineering  Nandha Engineering College(Autonomous)  Erode.</p> <p><b>Seva Ratna S.Kaviarasu</b>  Managing Director,  Hindustan Skill Development Institute  IISDT, State Coordinator TamilNadu.</p> <p><b>Mrs.T.Jansirani</b>  Assistant Engineer ( Industries)  District Industrial Centre  Erode.</p> <p><b>Mr.P.Nandha Kumar</b>  Partner  Maya Bazaar Restaurant &amp; Bubbles kids &amp; Women, Erode.</p> <p><b>Dr.K.Saravanan</b>  Assistant Professor  Department of English  Nandha Engineering College(Autonomous)  Erode.</p>
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TABLE B 9.6.3b Event Details for the Academic Year 2019-2020

S.No	Date	Programme	Resource Person
1	19.09.2019 and 21.09.2019	Entrepreneurship Awareness Camp Phase - I (For final year Engineering students)	<p>1.<b>Mr.Ravichandran</b>, Proprietor, Sri Kumki Restaurant, Erode</p> <p>2. <b>Mr.Odanthurai Shanmugam</b>, Social Entrepreneur and former President, Odanthurai Panchayat</p> <p>3. <b>Mr.S.Kannan</b>, Proprietor, Selvam traders, Velakovil</p> <p>4. <b>Mr.P.N.Nirmal Raj</b>, Founder, Rivera Coil Rewinding, Erode</p> <p>5. <b>Ms.Tamil Selvi</b>, Agro Entrepreneurship, Gobi</p> <p>6. <b>Mr.D.Ramesh</b>, Proprietor, Goat Farming and Agriculturist, Anthiyur</p> <p>7. <b>Ms.G.Chithra</b>, Proprietor, Srinivi Boutique, Erode</p> <p>8. <b>Mr.Yogashanmugam</b>, Aviculturist, Too and Tile farm,Gobi</p>



TABLE B 9.6.3c Event Details for the Academic Year 2018-19

S.No	Date	Programme	Resource Person
1	10.09.2018 to 12.09.2018	Entrepreneurship Awareness Camp	<p><b>1. Dr.Vijesh,</b> CoE-3, Mind Strategic, Mexico.</p> <p><b>2. Mr.T.Logeeswaran,</b> Managing Director, Shri Ganga Food Products, Erode.</p> <p><b>3. Mr.R.Praveen Kumar,</b> Partner, Chennai Gate Rice Industries (P) Ltd., Erode.</p> <p><b>4. Mr.Chinnasami,</b> Director, Agni Steels Private Ltd, Erode.</p> <p><b>5. Mr.P.Sachidanandam,</b> Managing Director, SLT Animal Feeds India Pvt. Ltd, Erode.</p> <p><b>6. Mr.S.Ganesan,</b> Managing Director, Saaral Mineral Water, Erode.</p> <p><b>7. Ms.SaranyaRangasamy,</b> Founder, The Right Turn, Tirupur.</p> <p><b>8. Mr.M.KMaheswaranSenthil</b> Autos Hero Dealer Erode</p>
2	21.02.2019 to 23.02. 2019	Entrepreneur Awareness Program for Pre-Final Years sponsored by DST, New Delhi	<p><b>1. Mr.V.P.SRadha Krishnan</b> Chairman, CII Erode Zonal Council and Managing Director Angel Starch and Food Pvt Ltd Erode</p> <p><b>2. JcB.Madhavakrishnan</b> Proprietor- NMK Online Service Erode</p> <p><b>3. Mr.K.Kaveen Kumar</b> Managing Partner -TipTop Groups Erode andKarur</p> <p><b>4. Dr.D.Ravichandran</b></p>



			Director Hayman Environmental Engg Pvt Ltd, Erode <b>5. Mr.Sivakumar Venkatachalam,</b> Founder-Konga Goshala, Kangeyam. <b>6. Mr.S.Ravishankar</b> CEO-Bright Digi World Tiruppur <b>7. Mr.Logesh Sivasubramaniam</b> Managing Partner Sri Thindal Punjabi Family Restaurant Erode <b>8. Mr.C.Mohan Kumar</b> Executive Director- Skybays Erode
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TABLE B 9.6.3d Event Details for the academic year 2017-18

S.No	Date	Programme	Resource Person
1	09.08.2017	Ignite the Entrepreneurial Spirit	<b>Mr.Pradeep Deva Sundararaji</b> CEO and Co-Founder Bucks Buckets
2	20.03.2018	Entrepreneurial Inspirations	<b>1.Er.D.Shanmugan,</b> CEO, Yes and Yes Constructions <b>2.Er.R.MohanRaj,</b> President, Federation of All Civil Engineers Association of Tamil Nadu and Pondicherry.

TABLE B 9.6.3e Event Details for the Academic Year 2016-17

S.No	Date	Programme	Resource Person
1	18.08.2016 to 20.08.2016	Entrepreneurship Awareness Camp Phase - I (For final year Engineering students)	<b>1. Padma Shri Mr.SKM.Maeilanandhan</b> Industrialist and Founder S. K. M. Group of Companies and President-Erode District Consumer Protection Centre <b>2. Sri .Mr.Adhikesavan</b> President of Sowbaghya Grinder Erode <b>3. Mr.Prakash Subramaniam</b> Managing Director Shakthi Cups, Erode
2	20.03.2017 to	Entrepreneurship	<b>1. Mr.VPS. Radhakrishnan,</b> Vice Chairman,



22.03.2017	Awareness Camp Phase-II (For pre-final year Engineering students)	<p>CII Erode Zone and Managing Director, Angel Starch and Foods Pvt Ltd., Erode.</p> <p><b>2. Mr.KarthikeyaSivasenapathy,</b> Managing Trustee, SenaapathyKangayam Cattle Research Foundation , Kangayam.</p> <p><b>3. Mr.V.Rajamanickam,</b> Managing Director, Shanmugha Group of Companies, Erode.</p> <p><b>4. Dr.V.Rajasekaran,</b> Assistant Director-Students Welfare VIT University - Chennai Campus</p> <p><b>5. Mr.L.Narayanan,</b> Chief Executive Officer, MR Color Lab and Studio, Erode</p>
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#### 9.6.4 Glimpses and abstract of the events conducted under Entrepreneurship Development Cell:



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**Figure 9.6.4a EAC Inaugural speech by Mr.V.Raja,Proprietor,Sri Bannari Amman Home Care Salem**



**Figure 9.6.4b Mr.Jc.L.Sampath Kumar,Managing Director, Nallakadai&South India Organic Farms,Erode**



Figure 9.6.4c Mrs.Priya Nirmalkumar,Proprietor,Sri Devi Stores,Erode.



Figure 9.6.4d Prof.K.Gunasekar, Head,Department of Computer Science & Engineering,Nandha Engineering College(Autonomous),Erode



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**Figure 9.6.4e Seva Ratna S.Kaviarasu,Managing Director,Hindustan Skill Development Institute,IISDT, State Coordinator,TamilNadu.**



**Figure 9.6.4f Mrs.T.Jansirani,Assistant Engineer ( Industries),District Industrial Centre,Erode**



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**Figure 9.6.4g Mr.P.Nandha Kumar,Partner ,Maya Bazaar Restaurant & Bubbles kids & Women,Erode**

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**Figure 9.6.4h Dr.K.Saravanan,Assistant Professor,Department of English,Nandha Engineering College(Autonomous),Erode**



**Figure 9.6.4i Tex Valley Visit on 22.12.2021**



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**TABLE B 9.6.4a Success Index of students turned into Entrepreneurs**

Academic Year	Total Number of students turned into Entrepreneurs		Cumulative Total
	UG	PG	
2020 – 21	1	2	3
2019 – 20	4	2	6
2018 – 19	6	6	12
2017 – 18	3	3	6
2016 -17	7	9	16

**9.7 Co-Curricular and Extra Curricular Activities:****(10)****Self Assessment (10)**

Nandha has incited the student activities by motivating and supporting the students to participate in various Co-Curricular and Extra Curricular activities. Co-Curricular activities of the students is monitored by the respective department and Physical Director is responsible for the entire Extra Curricular activities. Proctor takes care of the development of students in both Co-Curricular and Extra Curricular activities. The CiPD (Centre for Innovation and Product Development) cell takes initiative to explore the student's Co-Curricular activities by supporting towards to bring innovative ideas. NEC conducts innovation day every year to enrich the student's knowledge.

Student's participation in Co-Curricular and Extra-Curricular activities are encouraged through a platform "RHYTHM" every year in the month of March/April. There are also various clubs and forums established in NEC to encourage the students participation such as NSS, road safety, YRC, Tree Plantation, Cultural and Music, Fin Arts, Photography, Trekking, Women's club, Sports etc therefore to develop their Extra-Curricular abilities.

**9.7.1 Co-curricular Activities**

Co-curricular activities like Science Quiz, paper presentations, seminars and group discussion sessions are conducted. The details of various categories of activities are listed below



**Achievements in Co-curricular activities:****TABLE B 9.7.1a Summary of achievements in Co-curricular activities**

S. No	Name of the Activity	No of Students Participated					
		2021-22	2020-21	2019-20	2018-19	2017-18	2016-17
1	Paper Presentation	53	65	151	111	262	132
2	Technical workshops	487	312	404	57	124	179
3	Project Presentation	-	47	84	97	264	230
4	Seminar	246	307	557	44	89	179
5	Other events	244	780	413	765	1005	679

**Event details and the achievement of the students****TABLE B 9.7.1b Student Achievement details**

S.No	Name of the Student	Date	Event Name	Venue	Result
1	DEEPIKA.S	29-04-2022	Other events	KSR college of technology	Second Prize
2	P.SONIYA SREE	29-04-2022	Other events	KSR COLLEGE OF TECHNOLOGY	Second Prize
3	P SONIYA SREE	27-05-2022	Other events	KSR COLLEGE OF TECHNOLOGY	Second Prize
4	SWETHA.R	19-04-2022	Other events	VELLALAR ENGINEERING COLLAGE	First Prize
5	DHARANI S	21-10-2022	Other events	Paavi Engineering College	First Prize
6	HARIPRIYA L M	15-11-2021	Other events	Nandha Engineering College	First Prize
7	RATCHANYA. A	15-11-2021	Other events	NANDHA ENGINEERING COLLEGE	Second Prize



8	Menaka Gandhi N	26-05-2022	Other events	Hindusthan college of engineering and technology	Second Prize
9	J.JANANI	15-11-2021	Seminar, Other events	NANDHA ENGINEERING COLLEGE, ERODE	Second Prize
10	DHARANI S	29-04-2022	Other events	KSR Engineering College	Second Prize
11	S.SRI LAKSHMI	12-11-2022	Paper Presentation, Technical workshops, Other events	NANDHA ENGINEERING COLLEGE(3), ERODE SENGUNDHAR ENGINEERING COLLEGE(2), BHARATIDASAN ARTS AND SCIENCE COLLEGE(2), EXCEL ENGINEERING COLLEGE(1)	First Prize
12	HARIPRIYA L M	15-11-2021	Paper Presentation, Seminar, Other events	Nandha Engineering College	First Prize
13	INTHU.M	20-10-2022	Other events	Paavi engineering college	Second Prize
14	INTHU.M	19-04-2022	Other events	Velalar college of engineering and technology	First Prize
15	SWETHA.R	20-10-2022	Other events	PAAVAI ENGINEERING COLLAGE	Second Prize
16	SHARMA .E	18-05-2022	Other events	TAMILNADU AGRICULTURE UNIVERSITY - COIMBATORE	First Prize
17	SHARMA.E	05-07-2022	Other events	TAMILNADU AGRICULTURE UNIVERSITY -	First Prize



				COIMBATORE	
18	BHAVAN HARI KARTHI.S.S	13-07-2020	Other events	ANANDA COLLEGE	First Prize

### CIVIL Engineering

S.No	Name of the Student	Date	Event Name	Venue	Result
1	V.Gokulan	22.04.2022	Project Competition	Erode Sengunthar Engineering College	Second Prize
2	S. Hariprakash	29.04.2022	Auto CAD	MPNMJEngg. College	First Prize
3	M Naveenkumar N Govindaraj	29.04.2022	Quiz competition	MPNMJEngg. College	First Prize
4	P.Venkatesh	29.04.2022	Water Jump	M. Kumarasamy College of Engineering	First Place
5	S.Hariprakash	07.05.2022	Auto CAD	Builders Engineering College	First Place
6	V Dharmaraj & S Dharanitharan	07.05.2022	Paper Presentation	Builders Engineering College	Second Place
7	K Saritha & S Tamizharasi	13.05.2022.	Technical Quiz	Excel Engineering College	First Prize
8	V Gokulan	29.05.2022.	Project Presentation	at Shree Venkateshwara Hi-tech Engineering College	Second Prize

### Electronics and Communication Engineering

S.No	Name of the Student	Date	Event Name	Venue	Result
1	A.Manoj - II Year	08-04-2022	Mr & Ms Radio Jockey	KPR Institute of Engineering and	Second



				Technology, Coimbatore (Radio club)	Prize
2	A.Manoj - II Year	09-04-2022	Kavithai Poti	KPR Institute of Engineering and Technology, Coimbatore (Tamil Mandram)	Third Prize
3	R.Raja Sibi - I Year	22-04-2022	Charms	Kongu Engineering College, Perudurai	Third Prize
4	C.Pradeep - I Year	22-04-2022	Charms	Kongu Engineering College, Perudurai	Third Prize
5	Lithanya.P - II Year	13-08-2019	Paper Presentation	Jansons Institute of Technology	First Prize
6	Santhiya.S - II Year	13-08-2019	Paper Presentation	Jansons Institute of Technology	First Prize
7	R.Harini -I Year	06-09-2019	Treasure Hunt	KSR Institute of Engineering & Technology	First Prize
8	K.Hemadharshini-I Year	06-09-2019	Treasure Hunt	KSR Institute of Engineering & Technology	First Prize
9	Vaidehi Soudikoduthal.J III Year	07-09-2019	Quiz	Karpagam Institute of Technology	First Prize
10	Jawahar.R III Year	07-09-2019	Quiz	Karpagam Institute of Technology	First Prize
11	Mythrei Mahalakshmi.J III Year	07-09-2019	Project Presentation	Karpagam Institute of Technology	Third Prize
12	Vaidehi Soudikoduthal.J III Year	07-09-2019	Project Presentation	Karpagam Institute of Technology	Third Prize
13	Jawahar.R III Year	07-09-2019	Project Presentation	Karpagam Institute of Technology	Third Prize



14	Vaidehi Soudikoduthal.J III Year	07-09-2019	Quiz	Karpagam Institute of Technology	First Prize
15	Varshini Sri.V.H III Year	14-09-2019	ICTACT Youth Talk	Sri Krishna College of Engineering & Technology	Regional Pre finalist
16	Tamilvannan.A III Year	18-09-2019	Project Presentation	Sri Ramakrishna Engineering College	Second Prize
17	Dineshkumar.S.P III Year	18-09-2019	Project Presentation	Sri Ramakrishna Engineering College	Second Prize
18	Eswaran.M III Year	18-09-2019	Project Presentation	Sri Ramakrishna Engineering College	Second Prize
19	Sudharsan.S IV Year	21-09-2019	Tower Building	Firebird Institute of Research Management	First Prize
20	Meyananth.R IV Year	21-09-2019	Tower Building	Firebird Institute of Research Management	First Prize
21	Dineshkumar.S.P III Year	26-09-2019	Project Presentation	Nandha College of Technology	Second Prize
22	Eswaran.M III Year	26-09-2019	Project Presentation	Nandha College of Technology	Second Prize
23	Arun.U.T -I Year	28-09-2019	Paper Presentation	Velalar College of Engineering And Technology	First Prize
24	Gowtham.R - III Year	28-09-2019	Paper Presentation	Velalar College of Engineering And Technology	First Prize
25	Eraghavendran.M - III Year	28-09-2019	Paper Presentation	Velalar College of Engineering And Technology	First Prize
26	Dharani.S - I Year	04-10-2019	Project Presentation	Bannari Amman Institute of Technology	Third Prize
27	Divyasri.M - I Year	04-10-2019	Project Presentation	Bannari Amman Institute of Technology	Third Prize



28	Gowshik.B- I Year	04-10-2019	Project Presentation	Bannari Amman Institute of Technology	Third Prize
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### Electrical and Electronics Engineering

S.No	Name of the Student	Date	Event Name	Venue	Result
1	N. Dhivya -II Year	19-05-2022	Paper Presentation	Nandha Engineering College	First Prize
2	N. Dhivya -II Year	28-05-2022	Paper Presentation	Shree Venkateshwara Hi-Tech Engineering College	First Prize
3	G.Kowsalya-III Year	29-09-2021	Circuit Debugging	Nandha Engineering College	Third Prize
4	E.R.Jeevanandham-III Year	15-07-2021	TECH-A- MONTH 2.0	Youth United Council Of India	Second Prize
5	E.R.Jeevanandham-III Year	19-05-2022	Paper Presentation	Nandha Engineering College	Third Prize
6	S.Vivek-I Year	19-05-2022	Paper Presentation	Nandha Engineering College	Third Prize
7	C.Eneya Sri- I Year	19-05-2022	Paper Presentation	Nandha Engineering College	First Prize
8	R.Divyarani- III Year	04-09-2020	Paper Presentation	Hindusthan College Of Engineering And Technology	Second Prize
9	S.P.Madhuppranesh-III Year	03-10-2020	Symposium	Kongu Engineering College	First Prize
10	R.Sharmila- III Year	03-10-2020	Symposium	Kongu Engineering College	First Prize
11	S.P.Madhuppranesh-III Year	13-02-2021	Symposium	Kongu Engineering College	Second Prize





12	R.Sharmila- III Year	13-02-2021	Video Log	Kongu Engineering College	First Prize
13	R.Divyarani- III Year	28-03-2021	Symposium	College Of Engineering Guindy	First Prize
14	S.Premnath- III Year	14-02-2021	Quiz	PSG College Of Technology	Second Prize
15	R.Divyarani-II Year	02-02-2020	Hackathon	Smart India Hackathon	Fourth Prize
16	R.Divyarani-II Year	22-02-2020	Circuit Debugging	Dr NGP Institute Of Technology	Second Prize
17	S.Premnath-II Year	22-02-2020	Circuit Debugging	Dr NGP Institute Of Technology	Second Prize
18	R.Sharmila-II Year	10-03-2020	Paper Presentatio N	Kongu Engineering College	First Prize
19	S.P.Madhuppranesh-II Year	10-03-2020	Paper Presentatio N	Kongu Engineering College	First Prize
20	R.Divyarani-II Year	04-03-2020	Project Exhibition	Mahendra Engineering College	Second Prize
21	S.Premnath-II Year	04-03-2020	Project Exhibition	Mahendra Engineering College	Second Prize
22	S.Dineshkuma R- II Year	04-03-2020	Project Exhibition	K.S. Rangasamy College Of Technology	Second Prize
23	T.Dhiyanesh- II Year	04-03-2020	Project Exhibition	K.S. Rangasamy College Of Technology	Second Prize
24	S.P.Madhuppranesh-II Year	11-05-2020	Online Slogan Contest	K.S. Rangasamy College Of Technology	First Prize
25	T.Mohanapriya-I Year	21-05-2020	Quiz	Velalar College Of Engineering And Technology	Third Prize



### Mechanical Engineering

S.No	Name of the Student	Date	Event Name	Venue	Result
1	Mukesh Kumar G	06-05-2022	CAD Modeling	Kongu Engineering College	Second Prize
2	Kamalath K	20-05-2021	Paper Presentation	Sengunthar Engineering College	Second Prize
3	Manikandan R	27-09-2019	Poster Presentation	Excel Engineering College	First Prize
4	Manikandan M	19-08-2019	Cad Modeling	Jansons Institute Of Technology	Second Prize
5	Manikandan M	19-08-2019	Project Presentation	Jansons Institute Of Technology	First Prize

#### 9.7.2 Extra-Curricular activities

##### Annual activities:

**TABLE B 9.7.2a Summary of Annual activities**

S.No	Events	Participants	Remarks
1	Innovation Day	Students from various schools and Engineering college	Best innovative project selected and necessary steps are taken to convert into marketable products.
2	National Conference	Students from Engineering Institutions	Selected papers will be published in Reputed Journals.
3	Sports Day	All students from Nandha Engineering College	Best students are selected to participate in various District/National Events.
4	Annual Day (Rhythm)	All students from Nandha Engineering College	To improve the Students Empowerment, apart from academics.





FIGURE B 9.7.2a Sports Day Celebration

Availability of sports facilities:

TABLE B 9.7.2b List of indoor/Outdoor games available in the campus

S. No	Name of the sport facility	Numbers available
1	Volley Ball	3 courts
2	Cricket	1 ground and 2 nets
3	Foot ball	1 field
4	Hockey	1 field
5	Kabaddi	2 courts
6	Badminton	4 courts
7	Table Tennis	3
8	Carom, Chess	10 boards
9	Basket Ball Court	1
10	Track and Field	400mts/6 lanes
Other activities like yoga		

TABLE B 9.7.2c Achievements in sports activities

### Biomedical Engineering

S.No	Name of the Student	Date	Event Name	Venue	Result
1	R.AAKASH	16.11.2021	CRICKET	NANDHA ENGINEERING COLLEGE (AUTONOMOUS), ERODE-52	SECOND
2	M.ARUL	04.06.2022	KABBADI	NANDHA ENGINEERING COLLEGE (AUTONOMOUS), ERODE-55	SECOND
3	K.BHARATHI	16.11.2021	CRICKET	NANDHA ENGINEERING COLLEGE	SECOND



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				(AUTONOMOUS), ERODE-57	
4	K.BHARATHI	04.06.2022	KABBADI	NANDHA ENGINEERING COLLEGE (AUTONOMOUS), ERODE-58	SECOND
5	R.J.BRIGHTON DANIEL	16.11.2021	CRICKET	NANDHA ENGINEERING COLLEGE (AUTONOMOUS), ERODE-59	SECOND
6	M.DEVAPRASATH	04.06.2022	KABBADI	NANDHA ENGINEERING COLLEGE (AUTONOMOUS), ERODE-61	SECOND
7	S.DHARANEESH	16.11.2021	CRICKET	NANDHA ENGINEERING COLLEGE (AUTONOMOUS), ERODE-62	SECOND
8	P.GAYATHRI	04.06.2022	KHO-KHO,	NANDHA ENGINEERING COLLEGE (AUTONOMOUS), ERODE-64	FIRST
9	P.GAYATHRI	04.06.2022	RELAY - 4 X 400, 400	NANDHA ENGINEERING COLLEGE (AUTONOMOUS), ERODE-65	SECOND
10	B.HARIHARAN	16.11.2021	CRICKET	NANDHA ENGINEERING COLLEGE (AUTONOMOUS), ERODE-68	SECOND
11	N.MAHARAJA	16.11.2021	CRICKET	NANDHA ENGINEERING COLLEGE (AUTONOMOUS), ERODE-70	SECOND
12	M.MOHAMED ABUBAKKAR SIDDIQ	16.11.2021	CRICKET	NANDHA ENGINEERING COLLEGE (AUTONOMOUS), ERODE-71	SECOND
13	M.MOHAMED ABUBAKKAR SIDDIQ	04.06.2022	KABBADI	NANDHA ENGINEERING COLLEGE (AUTONOMOUS), ERODE-72	SECOND
14	S.MOHAMED HUSSAIN	16.11.2021	CRICKET	NANDHA ENGINEERING COLLEGE (AUTONOMOUS), ERODE-73	SECOND
15	S.MOHAMED HUSSAIN	04.06.2022	KABBADI	NANDHA ENGINEERING COLLEGE (AUTONOMOUS), ERODE-74	SECOND
16	K.RAMANIKA	04.06.2022	KHO-KHO	NANDHA ENGINEERING	FIRST



				COLLEGE (AUTONOMOUS), ERODE-76	
17	C.SANJAY KUMAR	16.11.2021	CRICKET	NANDHA ENGINEERING COLLEGE (AUTONOMOUS), ERODE-78	SECOND
18	C.SANJAY KUMAR	04.06.2022	KABBADI	NANDHA ENGINEERING COLLEGE (AUTONOMOUS), ERODE-79	SECOND
19	N.SANJAY KUMAR	16.11.2021	CRICKET	NANDHA ENGINEERING COLLEGE (AUTONOMOUS), ERODE-80	SECOND
20	N.SANJAY KUMAR	04.06.2022	KABBADI	NANDHA ENGINEERING COLLEGE (AUTONOMOUS), ERODE-81	SECOND
21	N.SANTHOSH	04.06.2022	KABBADI	NANDHA ENGINEERING COLLEGE (AUTONOMOUS), ERODE-82	SECOND
22	S.SUSVINTH	16.11.2021	CRICKET	NANDHA ENGINEERING COLLEGE (AUTONOMOUS), ERODE-84	SECOND
23	A.YASAR ALI	16.11.2021	CRICKET	NANDHA ENGINEERING COLLEGE (AUTONOMOUS), ERODE-88	SECOND
24	A.YASAR ALI	04.06.2022	KABBADI	NANDHA ENGINEERING COLLEGE (AUTONOMOUS), ERODE-89	SECOND
25	K. SWATHI	2022	SHOTPUT	NANDHA ENGINEERING COLLEGE (AUTONOMOUS), ERODE-89	THIRD
26	MAHESWARAN.N	29.12.2019	KABBADI	NEHRU YUVA KENDRA, CHENNAI	SECOND
27	INDHUMATHI.O.D	2020	KHO-KHO	NANDHA ENGINEERING COLLEGE (AUTONOMOUS), ERODE-89	THIRD



### Electronics and Communication Engineering

S.No	Name of the Student	Date	Event Name	Venue	Result
1	Srikanth M - IIIYear	Not Available	Bodybuilding	Anna University Sports Tamilnadu Level	Sixth
2	Madavan K- IIIYear	Not Available	Kabaddi	Mg Sports Club	Fourth
3	Mohanraj K- IIIYear	Not Available	Kabaddi	Mg Sports Club	Fourth
4	Madavan K- IIIYear	Not Available	Kabaddi	Mg Sports Club	Winner
5	Mohanraj K- IIIYear	Not Available	Kabaddi	Mg Sports Club	Winner
6	Archana A T- II Year	Not Available	100mts	Nandha Engineering College	Second
7	Archana A T - II Year	Not Available	400mts	Nandha Engineering College	Third
8	Archana A T - II Year	Not Available	4*100 Relay	Nandha Engineering College	Second
9	Jana M - II Year	Not Available	4*100 Relay	Nandha Engineering College	Third
10	Jana M - II Year	Not Available	4*400 Relay	Nandha Engineering College	Third
11	Sowndhar P - III Year	Not Available	4*400 Relay	Nandha Engineering College	Third
12	Praveen M - I Year	Not Available	4*400 Relay	Nandha Engineering College	Third
13	Praveen M - I Year	Not Available	800 Mts	Nandha Engineering College	First
14	Praveen M - I Year	Not Available	4*100 Relay	Nandha Engineering College	Third
15	Sobika R - II Year	Not Available	400mts	Nandha Engineering College	First
16	Sathya R - III Year	Not Available	4*100 Relay	Nandha Engineering College	Second
17	Kiruthika B -IV Year	Not Available	4*100 Relay	Nandha Engineering College	Second
18	Santhiya S - II Year	Not Available	4*100 Relay	Nandha Engineering College	Second
19	Santhiya S - II Year	Not Available	800mts	Nandha Engineering College	First
20	Hari Priya M - I Year	Not Available	4*400 Relay	Nandha Engineering College	First
21	Indhu V J - II Year	Not Available	4*400 Relay	Nandha Engineering College	First
22	Sobika R - II Year	Not Available	4*400 Relay	Nandha Engineering College	First
23	Mehala B - II Year	Not Available	4*400 Relay	Nandha Engineering College	First



24	Sobika R - II Year	Not Available	High Jump	Nandha Engineering College	First
25	Santhiya S - II Year	Not Available	Chess	Nandha Engineering College	Runner
26	Shanmuga Priya K – II Year	Not Available	Chess	Nandha Engineering College	Runner
27	Poornima M - II Year	Not Available	Chess	Nandha Engineering College	Runner
28	Madavan K - II Year	Not Available	Kabaddi	Anna University Sports Board	Runners
29	Nandhini A - III Year	19-01-2020	Throwball	36th Senior State Throw Ball Championship	First
30	Nandhini A - III Year	21-02-2020	Throwball	42nd Senior National Throw Ball Championship	Winner
31	Nandhini A - III Year	08-12-2019	Rural Olympic	4th National Rural Olympic Games	Best Coach
32	Nandhini A - III Year	20-11-2019	Throwball	South Zone National Throwball Championship	Best Player
33	Nandhini A - III Year	05-10-2019	Basket Ball	State Championship	Winner
34	R.Vikram - III Year	18-02-2020	Volley Ball	District Level Chief Minister Trophy	Third
35	R.Vikram - III Year	08-01-2020	Volley Ball	JCI Erode Centenary Rolling Trophy	Participated

### Electrical and Electronics Engineering

S.No	Name of the Student	Date	Event Name	Venue	Result
1	C.ENEYA SRI- I Year	27.04.2021	THROW BALL	Nandha Engineering College	First Prize



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**FIGURE B 9.7.2b Annual Day Celebration**

Every year NEC celebrates Science Day to spread the message of importance of science and its application among the students. This day is celebrated with following purposes:

- To widely spread a message about the significance of scientific applications in the daily life of the people,
- To display all the activities, efforts and achievements in the field of science for welfare of human being,
- To discuss all the issues and implement new technologies for the development of the science,
- To encourage the students as well as popularize the Science and Technology.

**FIGURE B 9.7.2c Science Day**

In order to provide access to quality educational books to students, the college came up with the Mission of Million Book donation. It aims at educating young India by cultivating reading habits among children and provides access to quality reading material.

**FIGURE B 9.7.2d Book Donation****NANDHA****ENGINEERING COLLEGE (Autonomous)**



World Students' Day is celebrated annually on 15 October on the birth anniversary of Dr. A.P.J. Abdul Kalam. It inspires millions of youth through his works, achievements, books, lectures, etc and always to be remembered.



**FIGURE B 9.7.2e Kalam Day**

Motivation plays a key role to become successful in life. We reach our goals or not. This rings true to all people regardless of their status, profession or age. We cannot achieve much without the determination to reach our goals no matter how big or small they are.

Learning institutions serve as the training ground for future leaders, and as a training ground which is the cornerstone of democracy it is deemed to have crucial role in instilling the sense of determination to the students.



**FIGURE B 9.7.2f Motivational Speech – Students Induction Program**

Recreation consists of activities or experiences carried on within leisure, usually chosen voluntarily by the participant – either because of satisfaction, pleasure or creative enrichment derived, or because he perceives certain personal or social values to be gained from them. It may, also be perceived as the process of participation, or as the emotional state derived from



involvement. In the current scenario, the best place to include recreational activities in one's life is one's place of education rather than at home. This not only provides a chance to include recreations in one's life, but also helps students to socialize and become less dependent on one's parents.



**FIGURE B 9.7.2g Recreation Day**

Army Day is celebrated on January 15 every year to commemorate the day when (then) Lieutenant General KM Cariappa took over General Sir Francis Butcher as Commander-in-Chief of India on January 1949.

The day is celebrated to honor our country's soldiers who set the greatest example of selfless service and brotherhood, and above all, love for the country.



**FIGURE B 9.7.2h Tribute to - 'Soldiers Day'**

To sensitize the voters about the importance of participation in an electoral process and to ensure a responsive, accountable and democratically elected Government of India has decided to celebrate January 25 every year as 'National Voters' Day'



**FIGURE B 9.7.2i Voter Awareness Day**

A Hackathon (also known as a hack day, hack fest or code fest) is a design sprint-like event in which computer programmers and others involved in software development, including graphic designers, interface designers, project managers, and others, often including domain experts, collaborate intensively on software projects.

The goal of a Hackathon is to create usable software or hardware with the goal of creating a functioning product by the end of the event. Hackathons tend to have a specific focus, which can include the programming language used, the operating system, application PROGRAM INTERFACE or the subject and the demographic group of the programmers.



**FIGURE B 9.7.2j Hackathon**



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It is to explore innovative ideas, methodologies and technologies in local groups in general and tribal communities in particular. To organize seminar, conferences, workshops, exhibitions relating to innovations and to develop an innovative and entrepreneurial mindset.



FIGURE B 9.7.2k I-Club MSME

### 9.7.3 Club Activities:

Various club activities are organized for students to enrich the personality and character development. the students have actively participated in various club forums such as NSS, road safety, YRC, Carrier Oriented Club, tree plantation, cultural and music, fine arts, photography, trekking, women's club, sports etc., Club aims to bring out the hidden talent of students in various activities.

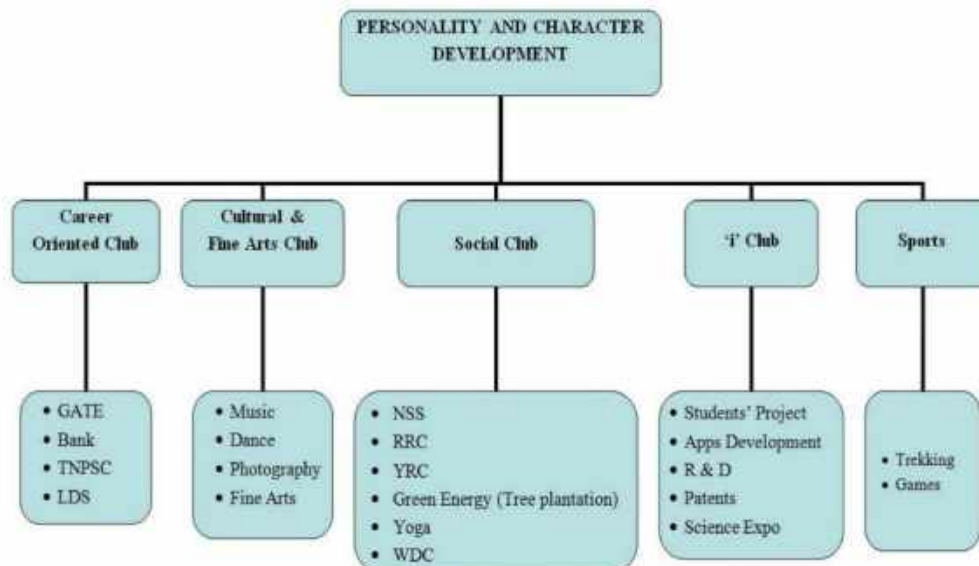


FIGURE B 9.7.3a Club Activities

TABLE B 9.7.3a Year wise Coordinators Details

S.No.	Name of the Club	I Year - Coordinators	II Year - Coordinators	III Year- Coordinators
1	Road Safety Club	Mr Ravivarman AP/Physics Ms.Jeyanthi AP/Chem	Mr Ravichandran V AP/EEE Mr Rajkumar M AP/Mech	---
2	Cultural Club	---	Ms Vanitha P AP/CSE	Ms Brindha S AP/ECE
3	Debate Club	---	Mr Kathirvel N AP/English	---
4	Fine Arts Club	---	Ms Suganya AP/IT	Ms SugunaAngamuthu AP/IT
5	Tree Plantation Club	Mr Arul Karthick E K AP/ECE Ms Mythili AP/English	Mr Karthi A AP/Mech Ms Tharanya S AP/Civil	Mr Amarthnathprabhakaran A AP/ECE Ms Pradeepa C AP/EEE
6	Music Club	---	---	Ms Senthamarai. M AP/CSE
7	NSS Club	Mr Sambathkumar M AsP/Mech Ms Santhiya AP/Chemical Ms Priyadharsini AP/Maths	Mr Velliangiri G AP/Mech Mr Krishnagandhi AP/EEE Ms Sumathi N AP/CHEMICAL	Mr Muruganantham S AP/Mech Ms Kavitha P AP/ECE
8	Photography Club	---	Mr Premkumar P AP/ECE Mr.Manikandaprabhu.N AP/ECE	Dr Sadagoban K Chief Librarian
9	Sports Club	Mr Satheeshkumar AP/ECE Ms Suganthi AP/ENG	Mr Jeyakumar AP/EEE Mr Rajasekaran K AP/CHEMICAL	Mr Manimaran . V AP/CSE Ms Shanmugapriya K AP/CSE
10	Trekking club	Mr Joe Adaikalaraj AP/Physics Ms Dhivya AP/ English	Ms Devi P AP/Maths Ms SapthikaParthi P AP/EIE	Mr Kathirvel N AP/English Mr Saravanan AP/ English



11	YRC Club	MS Amuthaprabha. J ASP/Maths Mrs.Megala A AP/ Maths	Ms Amutha R AP/ Maths	Mr Jagan AP/ Maths
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### Road Safety Club:

#### Objectives

- To improve the measures of effectiveness of road safety Education
- To develop skills among the students for interacting with various traffic situations.
- To assist in the enforcement of traffic rules.

#### Outcome

At the end of this course, the students will be able to

- Aware of road safety rules and traffic control
- Tuneroad safety education programme for the development of Nation.

#### Activities

- Detecting traffic presence
- Recognizing safe/dangerous locations
- Awareness program about higher studies in Abroad
- Co-ordinating information

### Cultural Club:

#### Objectives

- To bring out the hidden talent of students in dance
- To develop and enhance the performance of students by participating in various events
- To inculcate managerial capabilities such us event management and stage organization
- Students will develop a series of challenging physical obstacles an individual must navigate usually like running, climbing, jumping, crawling and balancing

#### Outcome

At the end of this course, the students will be able to

- Take part in various events



- Develop team spirit, leadership and managerial qualities

### Activities

- Increase awareness of different movements or body positions
- Develop creativity and imagination by responding to problems in movement or music
- Learn new words and concepts through songs and movement (learning in body parts by singing “Head, Shoulders, Knees, and Toes”).
- Explore the many ways in which a body can move (finding different ways to get to the other side of a line without stepping on it).
- Develop large motor skills (moving to music and participating in other creative movement activities).
- Improve balance, coordination, and rhythm through dancing and other movement activities (playing “Follow the Leader”).
- Improve small motor skills (learning finger plays and playing musical instruments).

### Debate Club

#### Objectives

- To enhance students' oratory and elocution skills in forums of large audiences.
- To train the students to express themselves eloquently and confidently.

#### Outcome

At the end of this course, the students will develop the following skills

- Confidence – Belief in themselves and their abilities, and the desire to participate in all classes.
- Curiosity – The passion of discovery through effective tools for research, organization and presentation.
- Critical Thinking – How to explore the world through the lens of an inquisitive mind
- Communication – Oral and written skills and strategies for lively yet respectful discussions and disagreements.
- Control – Eliminate the fears of public speaking.
- Creativity – The desire to explore, create and invent.
- Camaraderie – Meet like-minded peers at tournaments and build healthy bonds of competition.
- Leadership – Self-motivation and the ability to delegate assignments and manage peers.

### Activities



- A Four Corners Game
- Card Game
- Quick Debates/ Hat Debates
- Inner Circle/Outer Circle Debate Strategy

### **Fine Arts Club**

#### **Objectives**

- To encourage the students in various arts activities
- To improve the imagination skill in Entertainment

#### **Outcome**

At the end of this course, the students will be able to

- let their imagination run wild and provides them with the sight to see things in a different way
- share their prowess in different aspects of art

#### **Activities**

- Illumination
- Blind art
- Sketching
- Magic of fingers

### **Tree Plantation Club**

#### **Objectives**

- To create interest in tree planting and maintenance.
- Explain the importance of conserving forest
- To improve student outdoor recreational activities

#### **Outcome**

- Learners would be able to
- Gets field experience
- Improve the quality of the natural environment through planting trees.
- Student can understand the importance of tree plantation.

#### **Activities**

- Tree planting around the village playground
- Find the location of waste water and planting trees to utilizing the waste water
- Tree maintenance





- Awareness program about conserving rain forest
- Giving Saplings to public on their requirement



**FIGURE B 9.7.3b Tree Plantation Club – Tree sapling Plantation by Thiru V. Shanmugan, Chairman Nandha Educational Institution**

### Music Club

#### Objectives

- To understand type of instruments
- To know about types and sounds of music
- To understand the flow and fast tempo.
- To recognize high and low pitch.

#### Outcome

- Identify musical teams and instruments
- Able to select different sound format tempo and pitch according to their situation
- Do the replication of existing performance
- Do team work and perform group events

#### Activities

- General music theory
- Learn the different types of music instruments
- Basics about Guitar



- Basics about Keyboard
- Training classes for drums and vocal



**FIGURE B 9.7.3c Students Practicing Piano**

### **Photography Club:**

#### **Objectives**

- To create awareness about Camera operations
- To create awareness on shooting methods
- To know using of software and printing for modulation

#### **Outcome**

- Operating cameras
- Exposing photos in various environment
- Modulating photos

#### **Activities**

- Basics about Cameras: Type, parts and accessories of the Cameras.
- Setting/Exposure.
- Auto: Day light, shade, cloudy, flash, white fluorescent – Manual: Aperture, shutter speed, ISO sensitivity, colour, file formats, histogram.
- Shooting method.
- Photography and Videography – Viewing and exposing.
- Basics about using Photoshop and Printing.





**FIGURE B 9.7.3d Photo shoot Practicing**

### **Sports Club**

#### **Objectives**

- The opportunity to prepare the students for instruction and participation in a wide variety of sports of which one may develop sound, lifelong leisure values
- To develop leadership skills by providing opportunities for students to organize, administer and manage through individual clubs and/or the sports club
- To provide an outlet for advanced participation and competition in a particular sport
- To develop Equity, Diversity, Inclusion and Learning skills
- To develop personal foundations, advising and helping

#### **Outcome**

At the end of the course the students can

- Identify the student leadership and self confidence
- Report on skills gained that can benefit them for a lifetime
- Gain experience in organizational leadership, event management and business processes.
- Develop their body both physically and mentally.

#### **Activities**

- Indoor games
- Outdoor games
- Conduct intra and inter-meet competition





**FIGURE B 9.7.3e Students in Sports club Activities**

### **Women's club:**

#### **Objectives**

- To organize entertaining and educational activities for development of women.
- Raising awareness about women rights
- To empower women by making them involve in various activities.

#### **Outcome**

- The Club allows leadership opportunities and focuses on the concept of students working together.
- Sharing about successful women entrepreneurs
- To get the awareness about women rights and security

#### **Activities**

The activities included in this club are:

- Awareness programme towards girl education, issues of women rights etc.
- Women's day celebration
- Medical camp
- Seminar on women rights and security.
- Student competition on women empowerment.
- Regular upload of articles relating to women achievements on notice board.





**FIGURE B 9.7.3f Women's Club Activity**

### **Trekking Club:**

#### **Objectives**

- To create the sense of responsibility, patience and tolerance in the members who can create the same in society in general.
- To enable the trekkers to adjust themselves in new environment with unforeseen eventualities.
- Enhance the skill of the members who learn different activities during their treks and the skill thus learned/developed can be applied in their day-to-day life.
- Opportunities to explore nature and be part of it.

#### **Outcome**

- Bodily kinesthetic and naturalist intelligence of the members are improved
- Physical condition of the members and keeping them fit for their routine activities are the members about the purity of nature. They get the chance to see how pure and pollution-free the world has been created and how responsible man has been for not keeping it pure. With such knowledge the members feel their responsibility and would naturally do their utmost to keep the environment around them clean and teach others to do the same.

#### **Activities**

- Trekking at hills area



- Forest walk
- Treasure Hunt Hiking
- Rock climbing training camps.



**FIGURE B 9.7.3g Trekking at VedhaGiri, Bhavani**

### **National Service Scheme (NSS):**

#### **Motto: “Notmebut you”**

With this motto, volunteers take utmost pleasure in serving the needy and the under privileged. The more specific objectives of the National Service Scheme are to arouse the students’ social conscience and to provide them with the opportunity to

- Understand the community in which they work
- Understand themselves in relation to their community
- Identify the needs and problems of the community and involve them in problem-solving
- Develop among them a sense of social and civic responsibility
- Develop competence required for group-living and sharing of responsibilities
- Gain skills in mobilizing community participation
- Acquire leadership qualities and democratic attitudes
- Develop capacity to meet emergencies and natural disasters

#### **Activities:**

- Plantation of seedlings
- Free Medical Check-up Camp
- Blood Donation Camp
- Eye Testing camp
- Drug Abuse Prevention programme



- Literacy programme
- AIDS Awareness programme
- Career Guidance programme
- Art and Literacy programme



**FIGURE B 9.7.3h Glimpses of NSS activities**

#### **Yoga:**

A spacious hall is maintained for doing Meditation and Asanas in a lush green peaceful environment. The yoga centre “Temple of Consciousness” was inaugurated by Thiru. SKM. Maeilanandhan and the College, with the aid of Erode Manavalakalai Trust, offers yoga classes for all the students and staff members.



**FIGURE B 9.7.3i Yoga Practice**

## CRITERION 10

# GOVERNANCE INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES





<b>CRITERION 10</b>	<b>GOVERNANCE INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES</b>	<b>120</b>
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**Self Assessment (120)**

**10.1 Organization, Governance and Transparency (55)**

**Self Assessment (55)**

**10.1.1 State the Vision and Mission of the Institute (5)**

**(5)**

**Self Assessment (5)**

*(Vision statement typically indicates aspirations and Mission statement states the broad approach to achieve aspirations)*

**VISION:**

To be a world class Engineering and Management Institution in leading technological and socio-economic development of the country by enhancing the global competitiveness of technical manpower and by ensuring high quality technical education through dissemination of knowledge, insights and intellectual contributions.

**MISSION:**

To provide **value-based technical education** and mould the **character of younger generation**.



**VISION & MISSION**

**Vision**

To be a world class Engineering and Management Institution in leading technological and socio-economic development of the enhancing the global competitiveness of technical manpower and by ensuring high quality technical education through dissemination of insights and intellectual contributions.

Vision and Mission of the Institute from the Academic Year 2022 – 2023 onwards.

**VISION:**

To be an Institute of excellence providing quality Engineering, Technology and Management education to meet the ever changing needs of the society.

**MISSION:**

- To provide quality education to produce ethical and competent professionals with social Responsibility.
- To excel in the thrust areas of Engineering, Technology and Entrepreneurship by solving real-world problems.
- To create a learner centric environment and improve continually to meet the changing global needs.



**Figure B.10.1.1a Vision and Mission statements in College Website**

### **10.1.2 Availability of the Institutional Strategic Plan and its effective Implementation and Monitoring (25)**

#### **Self Assessment (25)**

Nandha Engineering College, established in the year 2001, has turned out with 7000+ alumni who are spread over the world riding a successful career path. The college offering 12 UG programs and 6 PG programs with 3 Research Centre ably contributing to the R&D pursuits besides complementing the teaching-learning process, the institution has grown from strength to strength in imparting quality technical education.

Since 2013, the college has been functioning as an autonomous institution as approved by the University Grants Commission (UGC) which has enabled the institution to bring changes in the curriculum and syllabi with emphasis on employability skills needed for the industries. The college has also received extension of autonomy in the year 2018.

The college has adapted Outcome Based Education (OBE) from the academic year 2015-16 onwards. It resulted in changes in regulations, inclusion of open elective system, blending of theory with practice through embedded courses, besides introducing, add/drop course options for the students enabling them to study the courses well in advance and provides opportunity to pursue internships in the final semesters.

Considering the dynamic transformation of Higher Education in terms of Expansion, Enrolment, Quality and Access, NEC would like to position itself in the top100 Engineering Institutions at National level. To accomplish the same, the institution has evolved the following strategies in Governance, Teaching-Learning process, Quality and Ranking, R&D, Faculty Development, Student Care and Stakeholder participation.

**Governance:** Governance has always been centered on quality of education, philanthropy, quality of campus life for students, encouraging the student pursuits towards holistic development conforming to the Vision and Mission of the College.

**Teaching-Learning:** Periodical revision of curriculum, introduction of one credit courses (taught by industries) and systematic evaluation are areas focused on, besides continuous up gradation of equipment, software and machineries.

**Quality and Ranking:** All performance parameters involved in NAAC, NBA, NIRF etc. have been integrated to the academic process to ensure performance in any area earns credit for the individual or department. This in turn has been well supporting in the Quality and Ranking processes.

**R&D:** Workshops, invited lectures are regularly organized to motivate faculty members to prepare proposals for funding and involve them in active research, besides in encouraging all outcomes. This has resulted in good number of publications, few major grants in the recent past.

**Student Care:** Consistently improving the in-house facilities for students, like library, hostel, dining, cafeteria or sports facilities. 21 Student clubs forum are functioning in the campus to promote co-curricular and extra-curricular activities.

**Stake-holder involvement:** Parents, experts from Industry and R&D institutions, and motivational speakers are periodically invited to the campus for interactive, statutory and non-statutory meetings where their views are thoroughly heard and included in the future plans. Academic progresses of students are regularly communicated to the parents for ensuring their active support in improving the all-round performance of their wards.

**Strategic Plan 2021-2026**

The Institute's Strategic Committee was constituted in 2015 followed by revised committee in 2021 with key Institute leaders and faculty representatives and stock holders. The list of members in the committee is given below.

**Table B.10.1.2a List of Institute's Strategic Committee Members**

Sl.No.	Members	Representation
1	Dr. N. Rengarajan, Principal, Nandha Engineering College.	Chairperson
2	Dr. S. Arumugam, Chief Executive Officer, Nandha Educational Institutions.	Member
3	Dr. M. Easwaramoorthi, Professor & Head, Department of Mechanical, Nandha Engineering College.	Member
4	Dr.S.Kavitha, Professor & Head, Department of ECE, Nandha Engineering College.	Member
5	Dr. E.K. Mohanraj, Professor & Head, Department of Civil Engineering, Nandha Engineering College.	Member
6	Dr. C.N. Marimuthu, Professor, Research & Development, Nandha Engineering College.	Member
7	Dr. D.Vanathi, Professor & Head, Department of Computer Science Engineering, Nandha Engineering College.	Member
8	Dr. G. Ramani, Professor & Head, Department of Electrical & Electronics Engineering, Nandha Engineering College	Member
9	Mr.Venkateswaran Doraisamy Partner – Venbro Polymenrs, Bhavani Main Rd, Erode, Tamil Nadu 638004	Member - Industry
10	Dr S. Syath Abuthakeer, Associate Professor, Dept. of Mechanical Engineering, PSG College of Technology, Coimbatore.	External Member
11	Mr. S. Muruganandham	Member – Representing Alumni

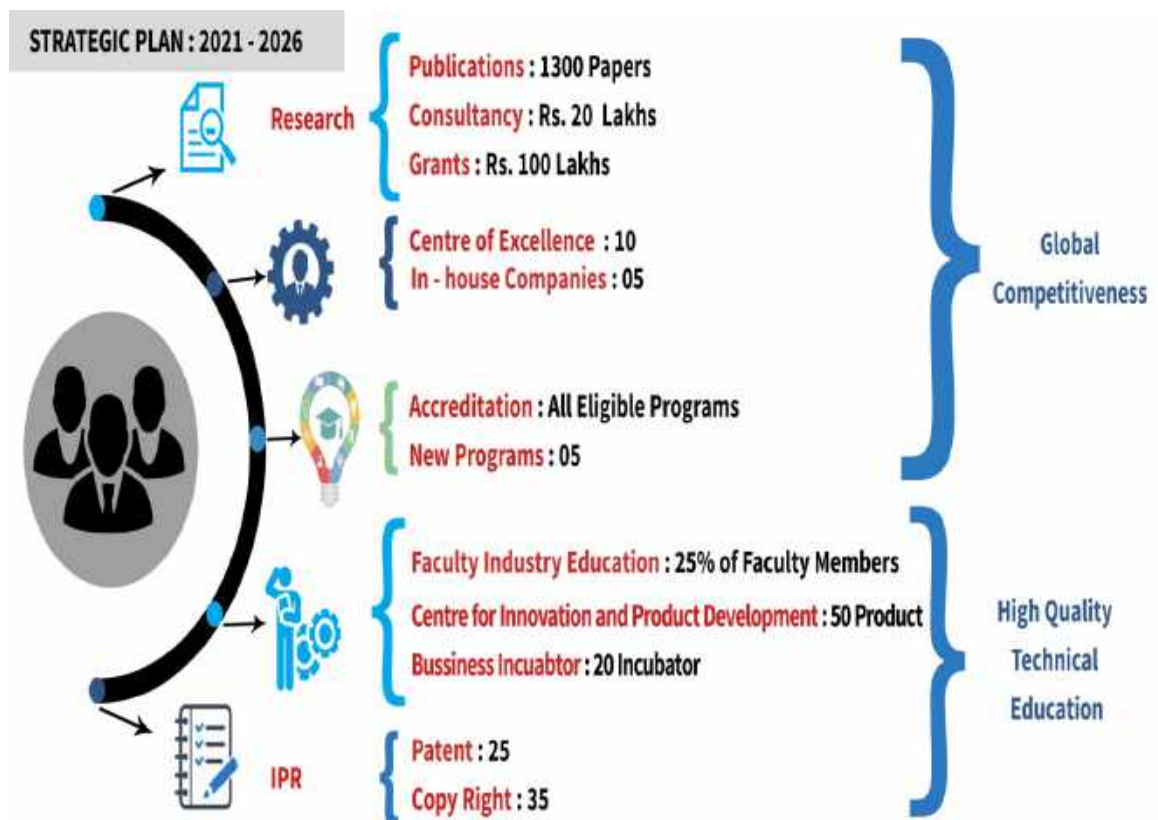
The strategic committee prepared a strategic plan for the year 2021-2026 in line with the vision and mission of the institute. The following goals have been identified and given special emphasis in the strategic plan of 2021-2026.

**Table B.10.1.2b Strategic plan and actions of 2016-2021**

S.No.	Plan	Target	Actions
1.	Strengthening of research publications	By 2016	Progress of research publications year wise 2017-18: 15 2018-19: 30 2019-20: 39 2020-21: 17 2021-22: 35
2.	Establishing Centre of Excellence (CoE)	By 2017	Established Centre of Excellence MECH, ECE, CSE & IT
3.	Improving research activities by leveraging the grant-in-aid of external funding agencies	By 2016	Progress of grant received year wise 2017-18: 4542526 2018-19: 3485875 2019-20: 2172254 2020-21: Nil 2021-22: 1562500
4.	Improving industrial consultancy works	From 2016	Progress of industrial consultancy works year wise 2018-19 : 564937 2019-20 : 326780 2020-21 : 299000 2021-22: 608000
5.	Introducing new programs	By2016	Two new programs namely B.E Computer Science Engineering (Internet of Things) and B.E Computer Science Engineering (Cyber Security) have been approved by AICTE from the academic year 2022-2023.
6.	Active involvement of faculty in industry interaction: FINE (Faculty Industry Education)	By 2016	To provide training to faculty through FINE
7.	Creating awareness about IPR for faculty and student members Encouraging filing of IPRs(Patent & Copyright)	By 2017	To organizing IPR and copyrights related workshops Copyright:37 Patent:46
8.	Quality improvement through Accreditation	By 2021	CSE, ECE and IT Programs were accredited by NBA from June 2021.

Further to enhance the quality of progress short and long-term targets have been set and new strategic plan for 2021 -2026 is prepared:

- To position the institution at top 150 list of National Institutional Ranking Framework (NIRF) by 2023.
- Improving the number and value of project grants to 50 Lakhs by 2022 and 1 Crore by 2026.
- To increase the number of publications in SCI journals.
- Ensuring 50% of the faculty members have Ph.D. before 2026.
- Ensuring all eligible departments to become Research Centres before June 2025.
- Ensuring each department files 2 patents and 5 copyright per year with effect from AY 2022- 23.
- To have strategic partnership with foreign institutions for R&D, faculty and students exchange for internships and collaborative research.



**10.1.3 Governing body, administrative setup, functions of various bodies, service rules, procedures, recruitment and promotional policies. (10)**

**Self Assessment (10)**

List the governing, senate, and all other academic and administrative bodies; their memberships, functions, and responsibilities; frequency of the meetings; and attendance therein, in a tabular form. A few sample minutes of the meetings and action-taken reports should be annexed. The published rules including service rules, policies and procedures; year of publication shall be listed. Also state the extent of awareness among the employees/students.

Table B.10.1.3a gives the list of Governing Council members of Nandha Engineering College is given below

**Table:B.10.1.3a List of Governing Body Members**

Sl. No.	Members	Representation
1	Thiru.V. Shanmugan, B.Com Chairman, Sri Nandha Educational Trust	Management
2	Mrs. S. Banumathi, Member, Sri Nandha Educational Trust	Management
3	Thiru S. NandhaKumar Pradeep M.B.A, Secretary, Sri Nandha Educational Trust	Management
4	Thiru S. Thirumoorthi B.P.T. Secretary, Nandha Educational Institutions	Management
5	Dr. S. P. Viswanathan, Advisor, Nandha Educational Institutions	Management
6	Dr. S. Arumugam, Chief Executive Officer, Nandha Educational Institutions	Management
7	Dr. J. Senthil, Professor & Director, Department of Computer Science & Engineering, Nandha Engineering College, Erode	Management

8	Dr. C.N. Marimuthu, Professor & Dean (R & D), Department of Electronics and Communication Engineering, Nandha Engineering College, Erode	Faculty Nominated by Principal
9	Mr. R. Thiruneelakandan, Assistant Professor, Dept. of Science and Humanities, Nandha Engineering College, Erode	Faculty Nominated by Principal
10	i). Mr. P.B. Kotur, General Manager & Global Head Higher Education, Wipro Limited.  ii). Mr. V. Madhukar, Director - HR, Intersnack Cashew India Private Ltd., Tuticorin.	Industry Nominees
11	Prof. (Dr.) Maya Ingle, Professor, School of Computer Science Information Technology Devi Ahilya Vishwavidyalaya, Indore - 452 001	UGC Nominee
12	Dr. D. Padmini, Professor, Department of Civil Engineering, Government College of Engineering, Bodinayakkanur, Theni, Tamil Nadu.	State Government Nominee
13	Dr. K. Kalaichelvan, Professor & Head, Department of Ceramic Technology, ACT Campus, Anna University, Chennai	University Nominee
14	Dr. N. Rengarajan, Principal, Nandha Engineering College, Erode	Ex-officio Member
Frequency of meeting and date of last meeting		Twice in a year 29.10.2022



**NANDHA ENGINEERING COLLEGE, ERODE – 638 052**  
**(An Autonomous Institution, Affiliated to Anna University Chennai and**  
**Approved by AICTE New Delhi)**

**Minutes of the 9<sup>th</sup> meeting of the Governing Body held on 29.10.2021**

<b>Name of the Body</b>	Governing Body
<b>Meeting No.</b>	9
<b>Date &amp; Time</b>	29.10.2021, 11.00 A.M
<b>Venue</b>	Online



**NANDHA ENGINEERING COLLEGE, ERODE – 638 052**  
(An Autonomous Institution, Affiliated to Anna University Chennai and approved by AICTE, New Delhi)  
**Minutes of the Meeting (MoM)**

**9<sup>th</sup> Governing Body held on 29<sup>th</sup> October 2021**

The ninth meeting of the Governing Body of Nandha Engineering College was held on 29.10.2021 at 11.00 am by online. The list of members attended the meeting is enclosed in Annexure I.

The Governing body considered various items in the agenda and the deliberations are detailed below:

9.01	Welcome
	Dr. N. Rengarajan, Principal welcomed all the members
9.02	Confirmation of the minutes of 8 <sup>th</sup> Governing Body Meeting held on 12.01.2021
Discussion	Dr. N. Rengarajan, Principal presented the minutes of the 8 <sup>th</sup> meeting of Governing Body (GB)
Resolution	Noted the contents of 8 <sup>th</sup> GB meeting and approved the MoM
9.03	Report on action taken on the minutes of 8 <sup>th</sup> Governing Body Meeting (enclosed in Annexure –II)
Discussion	The Action Taken Report (ATR) was placed before the members. GB members appreciated the efforts taken by the Institution to implement the suggestions
Resolution	ATR of the last GB was noted and approved.
9.04	Approval of the minutes of following Academic Council Meetings 1. Special Academic Council held on 01.04.2021. 2. 9 <sup>th</sup> Academic Council held on 06.09.2021.
Discussion	Dr. N. Rengarajan, Principal presented the following salient points of the minutes of Special Academic Council and 9 <sup>th</sup> Academic Council meeting. <ul style="list-style-type: none"> <li>• Approval of new program B.Tech., Artificial Intelligence and Data Science</li> <li>• Minutes of Meeting of BoS of all programs</li> <li>• Conduct of online/ offline classes, Continuous Assessment Test, End Semester exams as per the guidelines of Anna University released time to time.</li> </ul>
Resolution	Members approved the minutes of Special Academic Council and 9 <sup>th</sup> Academic Council meeting.
9.05	Approval of the minutes of 11 <sup>th</sup> Finance committee meeting which was held on 29.09.2021
Discussion	Principal presented the following contents of the 11 <sup>th</sup> Finance committee meeting minutes <ul style="list-style-type: none"> <li>• CoE Budget estimate approval for 2020-21</li> <li>• Ratified Budget utilization for CoE section for year 2020-21</li> <li>• 2020-21 &amp; 2021-22 budget of Nandha Engineering College</li> </ul>
Resolution	The GB approved the minutes of the 11 <sup>th</sup> Finance Committee meeting.
9.06	Faculty Information and Approval of faculty appointments / relieving
Discussion	➤ The lists of Faculty members appointed during 2020-21 and relieved during 2020-21 were presented by the Principal. <ul style="list-style-type: none"> <li>• Faculty members appointed during the academic year 2020-21 : 44</li> </ul>





	• Faculty members relieved during the academic year 2020-21 : 20
Resolution	The GB members noted the faculty information and resolved to record the same.
Item 9.07	Affiliation Details and Student Admission details
9.07.01	a. AICTE Extension of Approvals. b. Approval of New Programme: B.Tech-Artificial Intelligence and Data Science
9.07.02	Anna University Affiliation
Discussion	<ul style="list-style-type: none"> <li>➤ Principal presented the Student Admission details for the Academic year 2020-21 and 2021-22. AICTE extension approvals and Anna University affiliation details of 2020-21 for all the Programmes were presented. Further, informed the validity status of CSE, ECE and MECH research centers. The members appreciated for having 3 Research centres and 31 faculty members pursuing Ph.D.</li> <li>➤ Principal also informed the AICTE approval for New Programme: B.Tech-Artificial Intelligence and Data Science.</li> <li>➤ Mr. Senthil Kumar Moorthy appreciated the efforts taken by the Institution activities with industries in various forms during the pandemic period. He also suggested to consider the statistics of Govt. exam cleared students and entrepreneurs to motivate the current students.</li> <li>➤ Dr. J. Senthil, Professor and Director, updated the initiative to enable a portal for grouping alumni and students related to Govt. exams cleared candidates and entrepreneurs.</li> <li>➤ Dr. D. Padmini, State Govt. Nominee, asked the admission status of new programme (B.Tech-Artificial Intelligence and Data Science), the credits given for Internship activities, details related to Value Added Courses, One Credit Courses, yoga classes, conduction of classes as per guidelines of Anna university during pandemic period and introduction New Academic Regulation.</li> <li>➤ Principal informed that the admission of AI &amp; DS found to be encouraging and clarified the credits given for Internship activities and One Credit Courses. He explained the conduct of yoga classes and its inclusions in timetable. Further, he told that the New Academic Regulation (R22) will be introduced in the Academic year 2022-23.</li> </ul>
Resolution	Noted and recorded the approvals by AICTE and Anna University.
9.08	1. Honours and Achievements. 2. Accreditation: NBA - 3 Programmes
Discussion	<p>Principal has presented the Honors and Achievements of the Institution as given below:</p> <ul style="list-style-type: none"> <li>➤ 5-star rating by Institution's Innovation Council (IIC) of Ministry of Education,</li> <li>➤ THE WEEK <ul style="list-style-type: none"> <li>✓ Ranked 112<sup>th</sup> among Engineering College in ALL INDIA</li> <li>✓ Ranked 85<sup>th</sup> among Private Engineering Colleges in India</li> <li>✓ Ranked 57<sup>th</sup> among Top Engineering Colleges – South Zone (including Govt &amp; Private)</li> <li>✓ Ranked 50<sup>th</sup> among Top Engineering Colleges – South Zone</li> </ul> </li> <li>➤ DATAQUEST <ul style="list-style-type: none"> <li>✓ Ranked 65<sup>th</sup> among Top 100 T Schools in India 2021 (including Govt&amp; Private)</li> <li>✓ Ranked 53<sup>rd</sup> among Top Private T Schools in India 2021</li> </ul> </li> <li>➤ 281 Students have participated and won 11 prizes in various co-curricular events</li> <li>➤ 15 Students have participated and won 5 prizes in various extra-curricular events</li> </ul>





	<ul style="list-style-type: none"> <li>➤ Secured best ISTE student award including one State level award.</li> <li>➤ Nandha Engineering College had been honoured with Award of Excellence on Performance Category (2020-21) by PALS in appreciation for participation in PALS, a forum of IIT Alumni :- 480 students and 50 faculty members.</li> <li>➤ MSME funding for Business Incubation (Rs. 15 lakhs) (Roll and Pull Uprooting Machine)</li> <li>➤ Placement: IT sector -218 students, Core – 169 students</li> <li>➤ Dr. S. Arumugam had been awarded the Fellowship Award in 53<sup>rd</sup> Annual Convention in CSI 2020 from Computer Society of India-2020.</li> <li>➤ 37 students have participated in Hackathon Program</li> <li>➤ 12 faculty members got certified as Innovation Ambassadors by MoE, Govt. of India to promote innovations, IPR related activities</li> <li>➤ College has been allowed to be the Nodal Centre for Toyathon 20-21</li> <li>➤ NBA Accreditation: 3 Programmes (ECE, IT and CSE) had been accredited with good scores (Score: 675 above). 2 programmes (Mech and EEE) had uploaded SAR report and awaiting NBA inspections.</li> <li>➤ Principal narrated the accreditation activities and preparations related to NAAC.</li> </ul> <p>Dr. Maya Ingle appreciated the achievements and improvements in various aspects and activities of the college. Further, they congratulated the college academic members for their accreditation achievements and above efforts to ensure college positioning in NIRF ranking and other rankings.</p>
Resolution	Noted and resolved to record the achievements and accreditation activities.
9.09	Co-curricular Activities
Discussion	<p>Principal has presented the details of club activities conducted as a part of "Co-curricular and Extracurricular Activities".</p> <ul style="list-style-type: none"> <li>➤ Mr. Senthil Kumar Moorthi suggested to give training on Hacherrank type of tools to improve the problem solving skills of students in IT sector. Further he advised to bring the International clubs for engaging students to improve their communication standards and include story telling activities to improve communication skills.</li> <li>➤ Dr. J. Senthil, Professor and Director, assured to bring International Clubs like Toastmaster Club in upcoming year.</li> </ul>
Resolution	Recorded the details of club activities under Co-curricular and Extracurricular Activities
9.10	Academic performance of students
Discussion	Principal presented the details of eligible graduands to receive the degree during the year 2020-21. GB members appreciated the efforts taken for the conduct of exams in the pandemic period.
Resolution	Noted the results.
9.11	Academic Initiatives
Discussion	<p>Principal presented the following academic initiatives and students benefited.</p> <ul style="list-style-type: none"> <li>• One Credit : 13 Courses</li> <li>• Add-On Course : 4 Courses</li> <li>• Course Exemption : 379 out of 736 Students</li> <li>• Internship / Industry Projects : 77 Students</li> <li>• Essence of Indian Traditional Knowledge : 674 students</li> <li>• Human Values : 520 students</li> <li>• Open Elective : 533 Students (Odd) + 265 Students (Even)</li> <li>• Embedded Course : 25 courses</li> <li>• MoUs signed: 4, Industrial visits: 2 and Faculty Industry Education: 12</li> <li>• Constitution of India : 673 students</li> </ul>

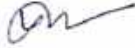
	<ul style="list-style-type: none"> <li>Establishment of Industry sponsored laboratories</li> <li>IQAC: - AQAR 2020-21 (Annual Quality Assurance Report)</li> <li>Social activities: COVID awareness programs, Visit to Old age home, Tree plantation, Helmet awareness program, etc.</li> </ul> <p>➤ Principal presented the IQAC-AQAR report (2020-21) followed by the explanation of the same by Dr. J. Senthil, Director-IQAC.</p> <p>➤ Dr. Maya Ingle asked the statistics of NPTEL online courses (Faculty and Students certifications). Principal replied that 63 faculty members and 143 students have cleared the courses. He also stated that the students are permitted to earn maximum 3 credits for online courses (per course) depending on the duration of the courses.</p> <p>➤ Dr. Maya Ingle also stressed the importance of introduction and implementation of Life Skills (Jeevan Kaushal) courses like Communication, Career and Universal Human values courses as per UGC guidelines. Principal explained that the initiatives have been made to include various skills related to Life Skills in the form of Personal value courses. Further Life Skills courses and National Education Policies will be included based on the time to time directions of the regulatory bodies.</p>
Resolution	Resolved to approve the IQAC-AQAR report (2020-21) and implement the suggestion.
9.12	Faculty Activities
	R & D: Publications. Faculty Development - Conferences, Workshops & FDPs. Consultancy & Grant in Aid Received.
Discussion	Principal presented the Research policy and R & D details as given below: Details of Journal publications (115), Conferences (36), Workshops & FDPs attended (347 nos.), FDP organized (16 nos.), Consultancy work undertaken (48 nos. Rs.4,46,750 /-) and Grant-in-Aid received (AICTE-RPS: MODROB: 9.14 lakhs, AICTE-STTP: 3.5 lakhs, AICTE-Conference: 1.6 lakhs and DST-SERB funding: 0.5 lakh) during the academic year 2020-21 were presented by Principal. Also highlighted the number of patent (20) and copyright (41) filed up to the academic year 2020-21.
Resolution	Resolved to approve the Research policy and record other activities.
9.13	Vision and Mission
Discussion	Principal presented the vision and mission statements of the Institute and sought suggestions from the GB members. Members suggested to consider the revision of Mission statements.
Resolution	Resolved to consider the suggestions.
9.14	Infrastructure development initiatives
Discussion	Principal explained about the progress of New Auditorium, Diagnostic and Therapeutic lab, Industry supported Lab by Vi-Micro Systems, Virtusa Lab and establishment of Centre of Excellence with Companies (4).
Resolution	Resolved to record the activities.
9.15	Scholarship Schemes
Discussion	Principal presented the merit scholarships awarded by the management. Scholarship amounts sectioned: Rs. 2 crores Number of students benefited: 725 (under various schemes like merit scholarship, single parent scholarship, Alumni scholarship etc.)
Resolution	Noted and appreciated the support of management.






9.16	<p>Any other items :</p> <ul style="list-style-type: none"> <li>➤ Dr. B.V. Mudgal, University Nominee, enquired the vaccination status of the students and faculty members in the college campus. Dr. J. Senthil replied that most of the students and faculty members have got vaccinated and rest of them will be vaccinated soon.</li> <li>➤ Principal presented the list of members in the Management Committee of the MSME Business Incubator. GB members approved the Management Committee.</li> <li>➤ Mr. Senthil Kumar Moorthy highlighted the importance of need of women empowerment, enhancement of the technical leadership among women and maintenance of good female gender ratio in colleges.</li> <li>➤ Dr. J. Senthil updated some of the initiatives to enhance students skills as follows: <ul style="list-style-type: none"> <li>• Introduction of Hackerrank and Hackerearth have been made as a part of curriculum.</li> <li>• Introduction Examly portal and Pearson self learning tool to enhance students' skills.</li> </ul> </li> <li>➤ Mr. Senthil Kumar Moorthi appreciated the initiatives and efforts in implementing feedbacks and suggestions of GB members.</li> </ul>
9.17	<p><b>VOTE OF THANKS</b></p> <p>Dr. J. Senthil expressed his sincere thanks to management members, UGC Nominee Prof. (Dr.) Maya Ingle, State Government nominee Dr. D. Padmini, Anna University nominee Dr. B.V. Mudgal, Industry nominees Mr. Senthil Kumar Moorthi, Mr. Lavanam Amballa and other members for their valuable suggestion. Also assured to take suggestions of members forward.</p>

Date: 29.10.2021




  
Dr. N. Rengarajan

**PRINCIPAL**  
Nandha Engineering College  
(Autonomous)  
Erode - 638 052.

**Academic Council Members:**

The list of Academic Council members of Nandha Engineering College is given in the TableB.10.1.3b.

**1. Chairman**

<b>Dr. N. Rengarajan</b>	<b>Principal</b>	<b>CHAIRMAN</b>
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**2. Heads of Department**

S.No	Name	Designation	Department
1.	Dr. P. Sukumar	Head	Bio Medical Engineering
2.	Dr. E.K. Mohanraj	Head	Civil Engineering
3.	Dr. S. Arumugam	Professor	Computer Science and Engineering
4.	Dr. J. Senthil	Professor	Computer Science and Engineering
5.	Dr. D. Vanathi	Head	Computer Science and Engineering
6.	Dr. S. Prabhu	Head	Computer Science and Engineering (Cyber Security)
7.	Dr. E.K. Vellingiriraj	Head	Computer Science and Engineering (Internet of Things) & MCA
8.	Dr. C.N. Marimuthu	Professor	Electronics and Communication Engineering
9.	Dr. S. Kavitha	Head	Electronics and Communication Engineering
10.	Dr. G. Ramani	Head	Electrical and Electronics Engineering
11.	Dr. M. Easwaramoorthi	Head	Mechanical Engineering
12.	Mr. K. Pradeepkumar	Head	Agricultural Engineering
13.	Dr. N. Subramanian	Head	Chemical Engineering
14.	Dr. C. Siva	Head	Information Technology
15.	Mrs. M. Parvathi	Head	Artificial Intelligence and Data Science
16.	Dr. M. Vijayalakshmi	Professor	Chemistry
17.	Dr. V. Manimegalai	Head	MBA

**3. Teachers of the College**

1.	Dr. M. K. Murthi	Professor	Mechanical Engineering
2.	Ms. P. Kavitha	Assistant Professor	English
3.	Mr. R. Thiruneelakkandan	Assistant Professor	Physics
4.	Mr. P. Jaisankar	Assistant Professor	Mathematics

**4. Experts from outside the College**

1.	Mr. N. Lakshminarasimhan	Industry expert	General Manager (Personnel & HR), Brakes India Private Ltd., Padi, Chennai – 600 050 <a href="mailto:lakshminarasimhan.n@brakesindia.co.in">lakshminarasimhan.n@brakesindia.co.in</a>
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2.	Mr. N. Meyyappan	Industry expert	Founder and Managing Director, Top Freshers Technologies Private Limited, Poonamallee Road, Ramapuram, Chennai – 600 089 <a href="mailto:meyyappan@terv.pro">meyyappan@terv.pro</a>
3.	Dr. S. Vasantharathna	Academic expert	Professor and Head, Department of Electrical and Electronics Engineering, CIT, Coimbatore. 9843044109 <a href="mailto:hodeee@cit.edu.in">hodeee@cit.edu.in</a>
4.	Dr. K. Umamaheswari	Academic expert	Professor and Head, Department of Information Technology, PSG College of Technology, Coimbatore. 9443716852 <a href="mailto:hod.it@psgtech.ac.in">hod.it@psgtech.ac.in</a>

### 5. Nominees of the University

1	Dr. N. Natchimuthu	Professor and Head	Department of Rubber and Plastic Technology, MIT Campus, Anna University Chennai – 600 044 9444981996 <a href="mailto:nmuthu@mitindia.edu">nmuthu@mitindia.edu</a>
2	Dr. K. Ramesh	Professor and Head	Department of Mechanical Engineering, Government College of Technology, Thadagam Road, Coimbatore – 641 013 7598020676 <a href="mailto:kramesh@gct.ac.in">kramesh@gct.ac.in</a> , <a href="mailto:kasimaniramesh@gmail.com">kasimaniramesh@gmail.com</a>
3	Dr. K. Ruckmani	Professor	Department of Pharmaceutical Technology, University College of Engineering, Bharathidasan Institute of Technology Campus, Anna University, Tiruchirappalli – 620 024 98424 84568, 7708988511 <a href="mailto:hodpharma@gmail.com">hodpharma@gmail.com</a>

### 6. Member Secretary

1	Dr. M. Muthukumar	Professor	Mechanical Engineering
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### 7. Student Member

1	P. Ramji	Student Member	Electronics and Communication Engineering
2	R.B. Nithyasri	Student Member	Computer Science and Engineering
3	K. Guhan	Student Member	Civil Engineering
4	B. Fasima Banu	Student Member	Mechanical Engineering



## NANDHA ENGINEERING COLLEGE(Autonomous)

ERODE- 638 052

### 10<sup>th</sup> ACADEMIC COUNCIL MEETING

Venue : Board Room, NEC

Date : 20.08.2022 & Time : 10.30 AM

#### AGENDA

ITEM 10.01	Welcome by the Principal & Introduction of members
ITEM 10.02	Approval of the minutes of Academic Council meeting as follows: <ul style="list-style-type: none"> <li>• 9<sup>th</sup> Academic Council meeting held on 06-09-2021 &amp; Action taken</li> <li>• 9A Special Academic Council meeting held on 11.04.2022</li> <li>• 9B Special Academic Council meeting held on 20.04.2022</li> </ul>
ITEM 10.03	<ul style="list-style-type: none"> <li>• Review of Vision and mission of the Institute</li> <li>• Review of Vision and mission of the Departments - All Programmes</li> <li>• Approval of the minutes of BoS meeting - All Programmes (for Academic year 2021-22).</li> <li>• Presentation of curriculum and syllabi approved in BoS meeting by Chairperson BoS.</li> </ul>
ITEM 10.04	Approval of the new academic regulation R22 (UG and PG) Amendments in Regulation R17 (UG + PG)
ITEM 10.05	<ul style="list-style-type: none"> <li>a) Presentation of results - UG programmes <ul style="list-style-type: none"> <li>• 2020-21 Even and 2021-22 Odd semester results</li> <li>• Degree awarded (FC, FCD, Year wise, Degree wise, Program wise)</li> </ul> </li> <li>b) Report of Malpractice committed by the students in internal and end semester examinations.</li> <li>c) R17: List of debarred and rejoined students for UG and PG programmes during 2021-22 R17: Attendance shortage below 65%</li> <li>d) Details of one credit and online courses studied during 2021-22 academic year.</li> </ul>
ITEM 10.06	<p>New programme and variation in sanctioned intake (existing programmes)</p> <p>UG:</p> <ul style="list-style-type: none"> <li>• B.E. - Computer Science and Engineering (Cyber Security)</li> <li>• B.E. - Computer Science and Engineering (Internet of Things)</li> <li>• B.E - Mechanical Engineering (variation in intake)</li> </ul> <p>PG: Structural, VLSI, ED and CSE (variation in intake)</p>

ITEM 10.07	Accreditation - NAAC & NBA .
ITEM 10.08	<ul style="list-style-type: none"><li>• Review and Approval of Institute Research policy.</li><li>• Authorize Head of the Institute to receive the funding from various funding agencies.</li></ul>
ITEM 10.09	Any other matter
ITEM 10.10	Vote of Thanks - Dr. M. Muthukumar, Member Secretary.



  
Principal & Chairman - Academic Council  
PRINCIPAL  
Nandha Engineering College  
(Autonomous)  
Erode - 638 052.




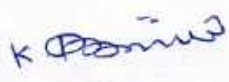
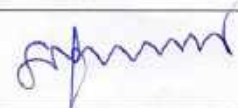




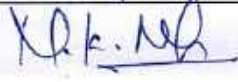
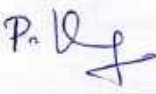



**NANDHA ENGINEERING COLLEGE**  
(Autonomous Institution)  
Pitchandampalayam, Erode To Perundurai Road, Erode-638 052

ACADEMIC COUNCIL

Academic Year: 2021-22

INTERNAL MEMBERS

Sl. No.	Members	Representation	Signature
1	Dr. P. Sukumar Professor & Head, Bio Medical Engineering	Head	<i>[Signature]</i>
2	Dr.E.K. Mohanraj Professor & Head, Civil Engineering	Head	<i>[Signature]</i>
3	Dr. S. Arumugam Professor, Computer Science and Engineering	Professor	<i>[Signature]</i>
4	Dr. J. Senthil Professor, Computer Science and Engineering	Professor	<i>[Signature]</i>
5	Dr. D. Vanathi, Professor & Head, Computer Science and Engineering	Head	<i>[Signature]</i>
6	Dr. S. Prabhu, Associate Professor & Head, Computer Science and Engineering (Cyber Security)	Head	<i>[Signature]</i>
7	Dr. E.K. Vellingiraj Professor & Head, Computer Science and Engineering (Internet of Things) & MCA	Head	<i>[Signature]</i>
8	Dr. C. N. Marimuthu, Professor, Electronics and Communication Engineering	Professor	<i>[Signature]</i>
9	Dr. S. Kavitha, Professor & Head, Electronics and Communication Engineering	Head	Leave of absence
10	Dr. G. Ramani, Professor & Head, Electrical and Electronics Engineering	Head	<i>[Signature]</i>

11	Dr. M.Easwaramoorthi Professor & Head, Mechanical Engineering	Head	
12	Mr. K. Pradeep Kumar Professor & Head, Agriculture Engineering	Head	
13	Dr. N. Subramanian Professor & Head, Chemical Engineering	Head	
14	Dr. C. Siva Professor & Head, Information Technology	Head	
15	Ms. M.Parvathi, Assistant Professor & Head, Artificial Intelligence and Data Science	Head	
16	Dr. M. Vijayalakshmi Professor, Department of Chemistry	Professor	
17	Dr. V. Manimegalai Professor & Head, Master of Business Administration	Head	
18	Dr. M.K.Murthi, Professor, Mechanical Engineering	Teacher of the College	
19	Ms. P. Kavitha, Assistant Professor, English	Teacher of the College	
20	Mr. R. Thiruneelakkandan Assistant Professor, Physics	Teacher of the College	
21	Mr. P. Jaisankar Assistant Professor, Mathematics	Teacher of the College	
22	Dr. M. Muthukumar Professor, Mechanical Engineering	Member Secretary	





**NANDHA ENGINEERING COLLEGE**  
(Autonomous Institution)  
Pitchandampalayam, Erode To Perundurai Road, Erode-638 052

**ACADEMIC COUNCIL**

Academic Year: 2021-22

Board	All Programmes	Meeting No.	10
Venue	BOARD ROOM	Date & Time	20 <sup>th</sup> August 2022, 10.30 am

**MEMBERS ATTENDED**

Sl. No.	Members	Representation	Signature
1	Dr. N. Rengarajan, Principal Nandha Engineering College (Autonomous) Erode - 638052	Chairman	
2	Dr. N. Natchimuthu, Professor and Head Department of Rubber and Plastic Technology, MIT Campus, Anna University, Chennai - 600 044 Phone: 9444981996 nmuthu@mitindia.edu	University Nominee	 20/8/22
3	Dr. K. Ramesh, Professor and Head, Department of Mechanical Engineering, Government College of Technology, Thadagam Road, Coimbatore - 641 013 Phone: 7598020676 kramesh@gct.ac.in, kasimaniramesh@gmail.com	University Nominee	 20/8/2022
4	Dr. K. Ruckmani, Professor, Department of Pharmaceutical Technology, University College of Engineering, Bharathidasan Institute of Technology Campus, Anna University, Tiruchirappalli - 620 024 Phone: 98424 84568, 7708988511 hodpharma@gmail.com	University Nominee	 20/8/22

Sl.No.	Members	Representation	Signature
5	Mr. N. Lakshminarasimhan, General Manager (Personnel & HR), Brakes India Private Ltd., Padi, Chennai – 600 050 Phone: 9786662031 <a href="mailto:lakshminarasimhan.n@brakesindia.co.in">lakshminarasimhan.n@brakesindia.co.in</a>	Expert from Industry	
6	Mr. N. Meyyappan, Founder and Managing Director, Top Freshers Technologies Private Limited, Poonamallee Road, Ramapuram, Chennai – 600 089 Phone: 9840044969 <a href="mailto:meyyappan@terv.pro">meyyappan@terv.pro</a>	Expert from Industry	
7	Dr. S. Vasantharathna, Professor and Head, Department of Electrical and Electronics Engineering, Coimbatore Institute of Technology, Coimbatore-641014 Phone: 9843044109 <a href="mailto:hodeee@cit.edu.in">hodeee@cit.edu.in</a>	Expert from Other College (Academic Expert)	 20/8/2022
8	Dr. K. Umamaheswari Professor and Head, Department of Information Technology, PSG College of Technology, Coimbatore- 641004. Phone: 9443716852 <a href="mailto:hod.it@psgtech.ac.in">hod.it@psgtech.ac.in</a>	Expert from Other College (Academic Expert)	 20/8/22

Sl. No.	Members	Representation	Signature
1	P. Ramji	Student	P. Ramji
2	R.B. Nithyasri	Student	Nithyasri R.B.
3	K.Guhan	Student	K. Guhan
4	B.Fasima Banu	Student	B. Fasima Banu

**NANDHA ENGINEERING COLLEGE,****ERODE - 638 052**

(An Autonomous Institution, Affiliated to Anna University Chennai and  
Approved by AICTE New Delhi)

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**MINUTES OF THE 10<sup>TH</sup> ACADEMIC COUNCIL MEETING**

<b>Name of the Body</b>	Academic Council
<b>Meeting No.</b>	10
<b>Date &amp; Time</b>	20.08.2022, 10.30 am
<b>Venue</b>	Board Room, Nandha Engineering College (Autonomous)



## NANDHA ENGINEERING COLLEGE, ERODE - 638052

(An Autonomous Institution, Affiliated to Anna University Chennai and approved by AICTE New Delhi)

### Minutes of 10<sup>th</sup> Academic Council Meeting (20<sup>th</sup> August 2022)

The Tenth meeting of the Academic Council for Nandha Engineering College was held on 20.08.2022 by 10.30 am at Board Room, Nandha Engineering College, Erode. The list of members attended the meeting is given in Annexure I.

	Welcome by the Principal & Introduction of members
ITEM 10.01	Dr. N. Rengarajan, Principal & Chairperson of the Academic Council welcomed all the members and introduced the external members. Further, he requested the internal members to introduce themselves and briefed the agenda items.
ITEM 10.02	Approval of the minutes of Academic Council meeting: <ul style="list-style-type: none"> <li>• 9<sup>th</sup> Academic Council meeting held on 06-09-2021 &amp; Action taken</li> <li>• 9A Special Academic Council meeting held on 11.04.2022</li> <li>• 9B Special Academic Council meeting held on 20.04.2022</li> </ul>
Discussion	<ul style="list-style-type: none"> <li>• Dr. N. Rengarajan, Principal &amp; Chairman of the Academic Council presented the minutes of the 9<sup>th</sup> meeting of Academic Council held on 06.09.2021, action taken or the same, 9A Special Academic Council meeting held on 11.04.2022 and 9B Special Academic Council meeting held on 20.04.2022.</li> </ul>
Resolution	Noted the contents of the minutes of the 9 <sup>th</sup> Academic Council meeting held on 06.09.2021, 9A Special Academic Council meeting held on 11.04.2022 and 9B Special Academic Council meeting held on 20.04.2022 and resolved to approve the same. Action Taken Report (ATR) of the 9 <sup>th</sup> academic council was also noted by the members and approved.
ITEM 10.03	<ul style="list-style-type: none"> <li>• Review of Vision and mission of the Institute</li> <li>• Review of Vision and mission of the Departments - All Programmes</li> <li>• Approval of the minutes of BoS meeting - All Programmes (for Academic year 2021-22).</li> <li>• Presentation of curriculum and syllabi approved in BoS meeting by Chairperson BoS.</li> </ul>
Discussion	<p>✓ Principal presented the statements of the vision and mission of the institute and various departments to the Academic Council members for any suggestion from the members. The members suggested the following modifications regarding vision and mission statements of the institute:</p> <ul style="list-style-type: none"> <li>➤ Dr. N. Natchimuthu (MIT campus) advised to consider the inclusion of word "ever growing or ever changing" in the vision statement.</li> <li>➤ Mr. N. Lakshminarasimhan (Brakes India) and Dr. K. Ruckmani (Anna University, Tiruchirappalli) suggested to reorder the mission</li> </ul>

	<p>statements.</p> <ul style="list-style-type: none"> <li>➤ Dr. S. Vasantharathna (CIT) and Dr. K. Umamaheswari (PSGCT) appreciated the usage of word "excellence" in the vision statement.</li> <li>✓ All the council members suggested to modify the vision and mission statements of all the departments corresponding to the revised vision and mission statements of the institute.</li> <li>✓ The Minutes of Board of Studies of all programmes of study were placed for approval.</li> <li>✓ Presentation of curriculum and syllabi of R22 regulation approved in BoS meeting by Chairperson BoS.</li> </ul>
	<p>B.E. Biomedical Engineering (UG) 1<sup>st</sup> and 2<sup>nd</sup> Semesters (R22)</p> <p>Dr. P. Sukumar, Head, BioMedical Engineering, presented the curriculum and syllabi. One Credit Course: (Ratification - R17)</p> <ul style="list-style-type: none"> <li>✓ PCB Design</li> <li>✓ Medical Equipments Trouble Shooting &amp; Calibration</li> </ul>
	<p>B.E. Civil Engineering &amp; M.E. Structural Engineering 1<sup>st</sup> and 2<sup>nd</sup> Semesters (R22) - UG 1<sup>st</sup> and 2<sup>nd</sup> Semesters (R22) - PG</p> <p>Dr. E.K. Mohanraj, Head, Civil Engineering, presented the curriculum and syllabi. One Credit Course: (Ratification - R17)</p> <ul style="list-style-type: none"> <li>✓ Building Bye Laws</li> </ul>
	<p>B.E. Computer Science and Engineering (UG &amp; PG) 1<sup>st</sup> and 2<sup>nd</sup> Semesters (R22) - PG</p> <p>B.E. Computer Science and Engineering (Cyber Security) - UG 1<sup>st</sup> and 2<sup>nd</sup> Semesters (R22) - UG</p> <p>B.E. Computer Science and Engineering (Internet of Things) - UG 1<sup>st</sup> and 2<sup>nd</sup> Semesters (R22) - UG</p> <p>Dr. D. Vanathi, Head, Computer Science &amp; Engineering presented the curriculum and syllabi. One Credit Course: (Ratification - R17)</p> <ul style="list-style-type: none"> <li>✓ Microsoft Azure</li> </ul>
	<p>B.E. Electronics and Communication Engineering (UG) and M.E. VLSI Design (PG) 1<sup>st</sup> and 2<sup>nd</sup> Semesters (R22) - UG 1<sup>st</sup> and 2<sup>nd</sup> Semesters (R22) - PG</p>

	<p>Dr. C. N. Marimuthu, Prof. &amp; Dean, Electronics and Communication Engineering briefed the contents of curriculum and syllabi.</p> <p>One Credit Course: (Ratification - R17)</p> <ul style="list-style-type: none"> <li>✓ PCB Design</li> <li>✓ Embedded System Design using PLC Microcontroller</li> </ul>
	<p>B.E. Electrical and Electronics Engineering (EEE)</p> <p>1<sup>st</sup> and 2<sup>nd</sup> Semesters (R22) - UG</p>
	<p>Dr. G. Ramani, Head, Electrical and Electronics Engineering presented the contents of curriculum and syllabi.</p>
	<p>B.E. Mechanical Engineering (UG) &amp; M.E. Engineering Design (PG)</p> <p>1<sup>st</sup> and 2<sup>nd</sup> Semesters (R22) - UG</p> <p>1<sup>st</sup> and 2<sup>nd</sup> Semesters (R22) - PG</p>
	<p>Dr. M. Eswaremoorthi, Head, Mechanical Engineering presented the contents of curriculum and syllabi.</p> <p>One Credit Course: (Ratification - R17)</p> <ul style="list-style-type: none"> <li>✓ Advanced Industrial Automation and Robotics</li> <li>✓ Industrial Automation and Control (Scada &amp; Hmi)</li> <li>✓ Numerical Modeling of Physical Systems in the Virtual Domain using CFD</li> </ul>
	<p>B.Tech. Agricultural Engineering</p> <p>1<sup>st</sup> and 2<sup>nd</sup> Semesters (R22) - UG</p>
	<p>Mr. K. Pradeepkumar Head, Agricultural Engineering presented the presented the contents of curriculum and syllabi.</p>
	<p>B.Tech. - Artificial Intelligence and Data Science.</p> <p>3<sup>rd</sup> and 4<sup>th</sup> Semesters (R17) - UG</p> <p>1<sup>st</sup> and 2<sup>nd</sup> Semesters (R22) - UG</p>
	<p>Mrs. M. Parvathi, Head, Artificial Intelligence and Data Science presented the curriculum and syllabi.</p> <p>One Credit Course: (Ratification - R17)</p> <ul style="list-style-type: none"> <li>✓ R for Data Science</li> <li>✓ Virtual Reality</li> <li>✓ Game Programming</li> <li>✓ Cloud AI Platform</li> </ul>
	<p>B.Tech. Chemical Engineering (UG)</p> <p>1<sup>st</sup> and 2<sup>nd</sup> Semesters (R22) - UG</p>
	<p>Dr. N. Subramanian, Head, Chemical Engineering presented the curriculum and syllabi.</p>
	<p>B.Tech. Information Technology (UG)</p> <p>1<sup>st</sup> and 2<sup>nd</sup> Semesters (R22) - UG</p>
	<p>Dr. C. Siva, Head, Information Technology presented the contents of</p>

	<p>curriculum and syllabi.</p> <p>One Credit Course: (Ratification - R17)</p> <p>✓ JQuery and Bootstrap</p>
	<p>Master of Computer Applications (MCA) Program</p> <p>Dr. E.K. Velligiriraj, Head, Master of Computer Applications presented the contents of curriculum and syllabi.</p>
	<p>Master of Business Administration (MBA)</p> <p>Dr. V. Manimegalai, Head, Master of Business Administration presented the contents of curriculum and syllabi.</p>
	<p>Science &amp; Humanities</p> <p>Dr. M. Vijayalakshmi, Professor, Chemistry presented the contents of curriculum and syllabi.</p>
Resolution	<p>Academic council members resolved to approve the following:</p> <ul style="list-style-type: none"> <li>✓ Vision and mission statements of the institute with the inclusion of their suggestions to get approval in the Governing body</li> <li>✓ Minutes of 10<sup>th</sup> BoS Meeting of the programmes (Civil, CSE, ECE, EEE, Mechanical, IT, MCA, MBA and S &amp; H)</li> <li>✓ Minutes of 6<sup>th</sup> BoS Meeting of the programmes (Agri and Chemical)</li> <li>✓ Minutes of 5<sup>th</sup> BoS Meeting of the programme (Biomedical)</li> <li>✓ Minutes of 2<sup>nd</sup> BoS Meeting of the programme, B.Tech. Artificial Intelligence and Data Science, Computer Science and Engineering (Cyber Security) and Computer Science and Engineering (Internet of Things).</li> <li>✓ Curricula and syllabi for UG and PG of respective programmes (R22)</li> <li>✓ Curricula and syllabi for UG programme (R17)</li> <li>✓ One credit courses of respective programmes (R17 ratified)</li> </ul>
<b>ITEM 10.04</b>	<p>Approval of the new academic regulation R22 (UG and PG)</p> <p>Amendments in Regulation R17 (UG and PG)</p>
Discussion	<p>Principal presented the new academic regulation R22 for UG and PG programmes and highlighted the salient features of the regulation to the Academic council members. Further, he presented the amendments in regulation R17 (UG and PG). Dr. K. Ruckmani suggested to permit the students to undergo online courses only form standard forums or institutions.</p>
Resolution	<p>Resolved to approve the academic regulations R22 and amendments in regulation R17.</p>
<b>ITEM 10.05</b>	<p>a) Presentation of results - UG &amp; PG programmes</p> <ul style="list-style-type: none"> <li>➤ 2020-21 Even and 2021-22 Odd semester results</li> <li>➤ Degree awarded (FC, FCD, Year wise, Degree wise, Program wise)</li> </ul> <p>b) Report of Malpractice committed by the students in internal and end semester examinations.</p>



	<p>c) R17: List of debarred and rejoined students for UG and PG programmes during 2021-22</p> <p>➤ R17: Attendance shortage below 65%</p> <p>d) Details of one credit and online courses studied during 2021-22 academic year.</p>
Discussion	<p>Dr. S. Arumugam, Professor &amp; CoE presented the results, report of malpractice, list of debarred students, shortage of attendance and one credit and online courses studied during 2021-22 academic year.</p> <p>Further, the discussion regarding the retainment of answer scripts (as hard copies) had been done to reduce the burden of keeping the records of more scripts.</p>
Resolution	<p>The Academic council members suggested to retain the answer scripts for a minimum period of 5 years (last 3 years as hard copies and further 2 years with sample scripts or as soft copies) for UG programmes and 4 years as hard copies for PG programmes. Further, Natchimuthu advised to follow Anna University guidelines regarding the retainment of old answer scripts. If any deviation from the guidelines could be allowed only after approval from Anna University.</p>
ITEM 10.06	<p>New programme and variation in sanctioned intake (existing programmes)</p> <p><b>UG:</b></p> <ul style="list-style-type: none"> <li>• B.E. - Computer Science and Engineering (Cyber Security)</li> <li>• B.E. - Computer Science and Engineering (Internet of Things)</li> <li>• B.E - Mechanical Engineering (variation in intake)</li> </ul> <p>▪ PG: Structural, VLSI, ED and CSE (variation in intake)</p>
Discussion	<p>Principal informed about the new UG programmes introduced from the academic year 2021-2022 and approvals of AICTE &amp; Anna University regarding the same. He also informed the variations in sanctioned intake of already existing programmes.</p>
Resolution	<p>Resolved to note the details of modifications in intake and new programmes.</p>
ITEM 10.07	<p>Accreditation - NBA and NAAC</p>
Discussion	<p>Principal narrated the accreditation activities and preparations related to NAAC and NBA.</p> <ul style="list-style-type: none"> <li>▪ NAAC: Peer team visit regarding NAAC Accreditation had been scheduled on 1<sup>st</sup> week of September, 2022.</li> <li>▪ NBA applied: 2 UG Programmes - EEE and Mechanical (Committee visit schedule is yet to receive)</li> </ul>
Resolution	<p>Members appreciated the efforts by the institution regarding the accreditation activities.</p>

ITEM 10.08	Authorize Head of the Institute to receive the funding from various funding agencies.
Discussion	Approval for authorizing Head of the Institute to receive the funding from various funding agencies as certain funding agencies require the same.
Resolution	Resolved to approve the proposal regarding research and development policy.
ITEM 10.09	Any other items: Nil
ITEM 10.10	Vote of Thanks.
	Dr. M. Muthukumar, Member Secretary proposed the vote of thanks.

Date: 20.08.2022

  
Principal & Chairman - Academic Council

  
20/8/22

**Board of Studies:**

NANDHA ENGINEERING COLLEGE, ERODE – 638 052

(An Autonomous Institution, Affiliated to Anna University Chennai and

Approved by AICTE New Delhi)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

NEC/EEE/CIR/BOS/2022

Date: 26.07.2022

**CIRCULAR**

Originator: BoS Chairman(HoD – Electrical and Electronics Engg.)	Circulated to: All faculty members
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Sub: BOS Meeting

The 1<sup>st</sup> BOS meeting has been scheduled on 30.07.2022 (SATURDAY). In this connection, BOS members of the Electrical and Electronics Engineering Program are requested to attend the meeting and provide their valuable suggestions.

**Date & Time of Meeting:** 30.7.2022 (11 AM) - Saturday

**VENUE:**SIMULATION LAB(Block-II)

*G. Ramani*  
26/7/22  
**Dr G.Ramani**  
**CHAIRMAN, BoS/EEE**



**NANDHA ENGINEERING COLLEGE (Autonomous)**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**BOARD OF STUDIES**  
**ACADEMIC YEAR:2022-2023**

Board	Electrical and Electronics Engineering	Meeting No.	10	R22
VENUE	SIMULATION LAB(BLOCK-II)	DATE&TIME	30.7.2022 & 11 A.M	

**LIST OF MEMBERS**

Sl. No	Members Name	Representation
1	Dr.G.Ramani, Prof & HOD/EEE	Chairman
2	Dr.Sujatha Balaraman Associate Professor, Dept of Electrical & Electronics Engineering, Government College of Technology, Coimbatore- 641013	University Nominee
3	Dr.C.Govindaraju Assistant professor, Dept of Electrical & Electronics Engineering, Government College of Engineering, Salem -636011	Expert Nominee (Nominated by Academic Council)
4	Dr. J.Devi Shree Associate Professor, Dept of Electrical & Electronics Engineering, Coimbatore Institute of Technology, Coimbatore -641014.	Expert Nominee (Nominated by Academic Council)



5	Mr.M.Jagathaguru Project Lead and Technical Expert Illuminen Technologies, Coimbatore-641035	Member (Expert from Industry)
6	Mr.D.Senthil kumar Senior quality Engineer, Cognizant Technology solution, Nagavara, Banglore-560045	Alumni
7	Dr.M.Siva Ramkumar Associate Professor Dept of Electrical & Electronics Engineering Karpagam Academy of Higher Education,Coimbatore-641021	Expert Nominee (Nominated by Academic Council)
8	Dr.S.Sampath Kumar Associate Professor Dept of Electrical & Electronics Engineering Amrita School of Engineering,Coimbatore-641105	Expert Nominee (Nominated by Academic Council)
9	Dr.P.Jamuna, ASP/EEE	Member
10	Dr.T.Jayakumar, ASP/EEE	Member
11	Mr.M.Prabhu, ASP/EEE	Member
12	Mr.B.Ramraj, AP/EEE	Member
13	Mr.S.Elango, AP/EEE	Member
14	Mrs.C.Pratheeba, AP/EEE	Member
15	Mrs.R.Vijayalakshmi, AP/EEE	Member



16	Mr.V.Arunkumar, AP/EEE	Member
17	Mr.P.Krishnagandhi,AP/EEE	Member
18	Mr.V.Ravichandran, AP/EEE	Member

  
BOS CO-ORDINATOR

  
HOD/EEE



NANDHA ENGINEERING COLLEGE, ERODE – 638 052

(An Autonomous Institution, Affiliated to Anna University Chennai and

Approved by AICTE New Delhi)

**Minutes of 10<sup>th</sup> Board of Studies Meeting (BoS) held on 30.7.2022**

The 10<sup>th</sup> Board of Studies (BoS) meeting was held on 30.07.2022 by 10.00 a.m in Simulation lab (BLOCK-II) at Nandha Engineering College, Erode

Dr. G.Ramani, Chairman (BoS) and Professor & Head, Electrical and Electronics Engineering chaired the meeting, welcomed all the members to the 10<sup>th</sup> BoS meeting and introduced the members of BoS. After the brief introduction, the agenda items listed below were taken up for discussion and the following resolutions were passed.

BOS - AGENDA	
Item 1.01	Welcome address and Introduction of members.
Item 1.02	Review of the 9 <sup>th</sup> BOS meeting minutes and ATR
Item 1.03	Review of the PAC and DAB meeting minutes & ATR
Item 1.04	Review of Institute Vision & Mission
Item 1.05	Review of Department Vision, Mission, PEOs and PSOs
Item 1.06	Review of Correlation between the Vision and Mission statement of Institute and Department, correlation between PEOs and POs.
Item 1.07	Review of Curriculum (R22) for B.E/B.Tech programme
Item 1.08	Review of 1 <sup>st</sup> and 2 <sup>nd</sup> semester syllabus for B.E/B.Tech programme with CO –PO/PSO Mapping
Item 1.09	Review on analysis of CO- PO/PSO mapping and attainment of R17 Curriculum.
Item 1.10	Review on Attainment target fixed for next batch.

Item 1.11	Review of Curriculum and syllabus (R22) for M.E programme with CO -PO/PSC Mapping.
Item 1.12	Review of R17 Ratification, if any.
Item 1.13	Review of inclusion of PSE courses in R17
Item 1.14	Review of one credit courses
Item 1.15	Review of Panel of Examiners
Item 1.16	Any other matter



BOS – MINUTES OF MEETING	
<b>Item 1.01</b>	Welcome address and Introduction of members.
<b>Discussion</b>	<b>Dr.G.Ramani, Chairman/BoS</b> introduced the members of the Board of Studies
<b>Item 1.02</b>	Review of the 9 <sup>th</sup> BOS meeting minutes and ATR
<b>Resolution</b>	Resolved to approve the 9 <sup>th</sup> BOS Meeting and ATR of 9 <sup>th</sup> BoS meeting.
<b>Item 1.03</b>	Review of the PAC and DAB meeting minutes & ATR
<b>Resolution</b>	Resolved to approve the PAC and DAB Meeting minutes &ATR
<b>Item 1.04</b>	Review of Institute Vision & Mission
<b>Discussion</b>	<p><b>VISION</b> To be a centre of excellence providing high quality Engineering, Technology and Management education to meet the ever growing needs of the society.</p> <p><b>MISSION</b></p> <ul style="list-style-type: none"> <li>• To provide quality education to produce competent professionals and leaders with social responsibility</li> <li>• To excel in research in the field of Engineering, Technology and Management</li> <li>• To be a learner centric environment with continual progress to meet the global needs.</li> </ul>
<b>Resolution</b>	Institute Vision and Mission is Approved by Members of Board of Studies
<b>Item 1.05</b>	Review of Department Vision, Mission, PEOs and PSOs
<b>Discussion</b>	<p><b>Dr.C.Govindaraju</b> Suggested to include the word Multidisplinary in the Vision Statement.</p> <p><b>VISION</b> To render high quality technical education and research by dispensing extensive knowledge to transform every student in to a competent Electrical Engineer to deploy multidisciplinary approach to serve society and nation.</p> <p><b>MISSION</b> The Department of Electrical and Electronics Engineering is committed to</p> <ul style="list-style-type: none"> <li>• Empower the students to adapt the latest technologies by providing innovative learning environment</li> <li>• Equip the students with leadership qualities for accepting the challenges in various engineering sectors</li> <li>• Excel in research in the field of Electrical Engineering</li> </ul>



<b>Resolution</b>	Resolved and the changes are incorporated in the vision Statement as suggested by Dr.C.Govindaraju.																																																	
<b>Item 1.06</b>	Review of Correlation between the Vision and Mission statement of Institute and Department, correlation between PEOs and POs.																																																	
<b>Discussion</b>	<table border="1"> <thead> <tr> <th colspan="2">Vision &amp; Mission Components</th> <th rowspan="2">Dept.</th> <th>Vision</th> <th colspan="3">Mission</th> </tr> <tr> <th colspan="2">Institute</th> <th>To transform the student in to highly competent ethical electrical engineers to serve the society and nation.</th> <th>To adapt the latest technologies by providing innovative learning environment</th> <th>Train the students with leadership qualities for accepting the challenges in industry and private sectors.</th> <th>Excel in research in the field of Electrical Engineering</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Vision</td> <td colspan="2">World class Engineering Institute</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> </tr> <tr> <td colspan="2">Global competitiveness of technical manpower</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td colspan="2">High quality technical education</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td rowspan="2">Mission</td> <td colspan="2">Valued based technical education</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td colspan="2">Mould the character of young generation</td> <td></td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>					Vision & Mission Components		Dept.	Vision	Mission			Institute		To transform the student in to highly competent ethical electrical engineers to serve the society and nation.	To adapt the latest technologies by providing innovative learning environment	Train the students with leadership qualities for accepting the challenges in industry and private sectors.	Excel in research in the field of Electrical Engineering	Vision	World class Engineering Institute		✓	✓	✓		Global competitiveness of technical manpower		✓	✓	✓	✓	High quality technical education		✓	✓	✓	✓	Mission	Valued based technical education		✓	✓	✓	✓	Mould the character of young generation			✓	✓	✓
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Mission	Valued based technical education		✓	✓	✓	✓																																												
	Mould the character of young generation			✓	✓	✓																																												
<b>Resolution</b>	Resolved and good correlation obtained between Vision and mission of Department and Institute was obtained.																																																	
<b>Item 1.07</b>	Review of Curriculum (R22) for B.E/B.Tech programme																																																	
<b>Discussion</b>	Curriculum(R22) was discussed in the BOS meeting and Suggestion																																																	
<b>Resolution</b>	Resolved and Curriculum was modified according to Suggestion given by BOS Members.																																																	
<b>Item 1.08</b>	Review of 1 <sup>st</sup> and 2 <sup>nd</sup> semester syllabus for B.E/B.Tech programme with CO –PO/PSO Mapping																																																	
<b>Discussion</b>	<p><b>SUBJECT NAME: BASIC ELECTRICAL AND ELECTRONICS ENGINEERING (II SEM- CIVIL, CHEMICAL)</b>  <b>UNIT –I (ELECTRICAL CIRCUITS &amp; MEASUREMENTS)</b>                  Dr.J.Devishree advised to remove the Operating Principles of Moving coil and moving iron instruments in unit-I since it was outdated topic.</p> <p><b>UNIT-II&amp;III (DC MACHINES &amp; AC MACHINES)</b>                  Dr.Sujatha Balaraman Suggested to Split the Electrical Machines (UNIT-II) in to DC Machines (UNIT-II) and AC Machines (UNIT-III)</p>			<p>✓ Topics Removed</p> <p>✓ Changed</p> <p>✓ Modified</p>																																														
	In UNIT II-Single Phase Transformer was removed.																																																	



In unit III-Three phase induction motor was included in the Syllabus along with Single phase induction motor.	
<b>UNIT-IV(SEMICONDUCTOR DEVICES AND CIRCUITS)</b> Dr.C.Govindaraju Suggested to remove Full wave rectifier Topic in unit-IV.	✓ Changed
<b>UNIT-V(DIGITAL SYSTEMS)</b> Dr.C.Govindaraju Suggested to change title of the topic Binary Addition,Multiplication &Division as Binary Arithmetic .	✓ Included
<b>Mr.M.Jagathaguru</b> Suggested to include the applications adder and subtractor.	✓ Changed
<b>Mr.M.Jagathaguru</b> Suggested to remove reduction of Boolean Expressions	✓ Included
<b>SUBJECT NAME:ELECTRICAL ENGINEERING</b>	
<b>UNIT-III(DC MACHINES)</b>	
<b>Dr.Sujatha Balaraman</b> Suggested to modify the title of the Induction motor as AC Machines.	✓ Modified
<b>Dr.Sujatha Balaraman</b> Suggested to include three phase induction motor along with single phase induction motor.	✓ Included
<b>UNIT-V(ELECTRIC DRIVES)</b> Mr.D.Senthil kumar Suggested to include Case study (Drive system for paper mills) and Speed control of DC drives.	✓ Included
<b>SUBJECT NAME:ELECTRIC CIRCUIT THEORY(EEE)</b>	
<b>UNIT-I(BASIC CIRCUIT ANALYSIS)</b> Mr.M.Jagathaguru Suggested to modify Mesh current and Node voltage method of analysis for DC Circuits Topic name to Mesh and nodal analysis For D.C Circuits.	✓ Changed
<b>UNIT III(AC CIRCUITS)</b> Dr.J.Devishree Suggested to Include Introduction to transients	

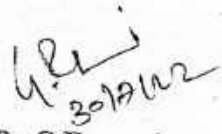
	<p>Dr.Sujatha Balaraman Suggested to modify the topic name AC Signals and Solution of RLC Circuits to AC Signals and RLC Circuit.</p> <p><b>SUBJECT:ENGINEERING PRACTICES LABORATORY</b></p> <p>Mr.D.Senthil kumar Suggested to include measuring instrument-Megger.</p>	<p>✓ Modified</p> <p>✓ Included</p>
<b>Resolution</b>	Resolved to approve the Syllabus under Regulation R-22 For 1 <sup>st</sup> & 2 <sup>nd</sup> semesters of Electrical and Electronics Engineering for the batch of students admitted during academic year 2022-2023	
<b>Item 1.09</b>	Review on analysis of CO- PO/PSO mapping and attainment of R17 Curriculum.	
<b>Discussion</b>	CO-PO/PSO Mapping of all first year subjects (I and II SEM) were discussed. The target level of 70% is achieved for PO1,PO2,PO3,PO4,PO5,PO6,PO9,PO10,PO12. The target level of 70% is not achieved for the PO7, PO8, PO11 and PSO4. The reason for the difference between target and achieved levels for all PO and PSO were analyzed and actions to be taken to improve the attainment level was discussed by BOS members.	
<b>Resolution</b>	Resolved and Solution is discussed to reduce the difference between target and achieved level of above mentioned POS and PSO in R22 Curriculum.	
<b>Item 1.10</b>	Review on Attainment target fixed for next batch.	
<b>Discussion</b>	Target attainment level(72%) is fixed for all the POS for EEE Students admitted during the academic year 2022-2023	
<b>Resolution</b>	Resolved and target attainment level(72%) is fixed for all the POS for EEE Students admitted during the academic year 2022-2023 is approved by all BOS members.	
<b>Item 1.12</b>	Review of R17 Ratification, if any.	
	NIL	
<b>Item 1.13</b>	Review of inclusion of PSE courses in R17	
<b>Discussion</b>	<p>In Professional Elective Course subjects were discussed by Expert members.</p> <p><b>Dr.J.Devishree</b> suggested to Modify the Subject name Linear Signals and System as Signals and System.</p> <p><b>Mr.M.Jagathaguru</b> Suggested to Modify the subject name Engineering automotive electronic system as Industrial Automotive Electronic System</p> <p><b>Dr.Sujatha Balaraman</b> Suggested to remove thermodynamics subjects in Professional Elective Group.</p> <p><b>Mr.M.Jagathaguru</b> Suggested to modify the subject name Utilization and conservation of Energy to Electric Energy Conservation and Auditing</p>	
<b>Resolution</b>	Resolved to approve the Programme Specific Electives(PSE) of R22 UG under Regulation R22 for the batch of students admitted in B.E Electrical and Electronics Engineering from	





	2022-2023 onwards
<b>Item 1.14</b>	Review of one credit courses
<b>Discussion</b>	<b>Mr.M.Jagathaguru</b> Suggested to Change the name of one credit course "PCB DESIGN" to Hardware Design
<b>Resolution</b>	Resolved to approve the Proposed Changes in above course for the academic year 2022-2023
<b>Item 1.15</b>	Review of Panel of Examiners
<b>Resolution</b>	Resolved to approve the Panel of Examiners
<b>Item 1.16</b>	Any other matter
	NIL

Date: 30.7.2022

  
30/7/22  
**Dr.G.Ramani**

**CHAIRMAN,BOS/EEE**

  
25/7/22

**Finance Committee:**



**NANDHA ENGINEERING COLLEGE**  
(Autonomous), Erode-638052

**CIRCULAR**

Date: 22.09.2022

NEC/Cir/2022-2023/62

Classification	ROUTINE	IMMEDIATE
Academic	Originator: Chairman, Finance Committee	Circulated to: Finance Committee members

Sub.: 12<sup>th</sup> Finance Committee meeting – reg.

\*\*\*\*\*

The 12<sup>th</sup> meeting of finance committee is scheduled on 27.09.2022 at 11.45 AM in the Board room ,Nandha Engineering College, Erode. Hence, all the committee members are requested to attend the meeting as per schedule.

  
PRINCIPAL







**NANDHA ENGINEERING COLLEGE**  
(Autonomous)  
Erode – 638 052

FINANCE COMMITTEE MEETING

<b>Academic Year</b>	2022-2023	<b>Meeting No.</b>	12
<b>Venue</b>	Board room	<b>Date and Time</b>	27.09.2022 11.45AM


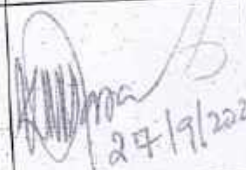
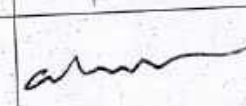
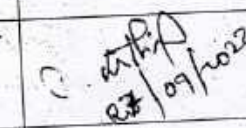
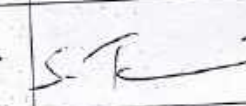
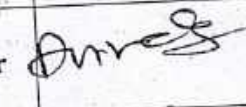

AGENDA

<b>ITEM</b>	<b>DETAILS</b>
12.1	Welcome by the Chairman of Finance Committee
12.2	Approval of the minutes of the 11 <sup>th</sup> finance committee meeting held on 29.9.2021.
12.3	Ratification of Budget utilization for COE section for the year 2021-22(Odd Semester).
12.4	Approval of Budget estimate for COE section for the year 2021-2022(Even semester)
12.5	Revision of remuneration in certain categories in COE.
12.6	Fixation of Condonation Fee (65% and above and below 75% attendance)
12.7	Approval of remuneration fixation of DAB meeting (Department Advisory Board) twice in a year .
12.8	Approval of Proposed Budget for Nandha Engineering College for the Year 2022-23
12.9	Any other item.

FINANCE COMMITTEE CHARIMAN

## Annexure - II

## List of Members Attending Finance Committee Meeting.

Sl. No.	Name & Designation	Category	Signature
1.	Dr. N. Rengarajan, Principal, Nandha Engineering College.	Finance Committee - Chairman	 22/9/2022
2.	Dr.K.M.Parammasivam, Professor & Head Department of Aerospace Engineering, MIT Campus, Chennai.	University Nominee	 27/9/2022
3.	Thiru A. Sivaprakasam, Chief Financial Officer, Nandha Educational Institutions.	Nominee of the Governing Body	
4.	Dr.J.Senthil, Professor /CSE, Nandha Engineering College.	Senior-most Faculty nominated by Principal	 03/09/2022
5.	Mr. S. Nandhakumar Pradeep, Secretary, Sri Nandha Educational Institutions.	Co-opted Member	
6.	Mr. S. Thirumoorthi Secretary, Nandha Educational Institutions.	Co-opted Member	
7.	Mr. A.K. Velusamy, Administrative Officer , Nandha Engineering College.	Co-opted Member	
8.	Mr. P. Thirumoorthy DCOE, Nandha Engineering College.	Co-opted Member	





## NANDHA ENGINEERING COLLEGE (Autonomous)

### MINUTES OF THE FINANCE COMMITTEE

The 12th meeting of the Finance Committee was held as given bellow:

<b>Academic Year</b>	2022-2023	<b>Meeting No.</b>	12
<b>Venue</b>	Offline Mode	<b>Date and Time</b>	27.09.22 11.45 AM
<b>List of Members Attended</b>		The list of members attended with signature is given in the Annexure – I & II	

The Principal welcomed the members of Finance Committee Members.

The Committee considered the items given in the agenda and deliberations are given bellow.

ITEM	DETAILS
12.1	<b>Welcome by the Chairman of Finance Committee</b>
12.2	<b>Approval of the minutes of the 11<sup>th</sup> finance committee meeting held on 29.9.2021.</b>
<b>Details</b>	The committee reviewed the minutes of the 11 <sup>th</sup> finance committee meeting and approved
12.3	<b>Ratification of Budget utilization for COE section for the year 2021-22(Odd Semester).</b>
<b>Details</b>	The committee reviewed the Budget utilization for COE section for the year 2021-2022(Odd semester)
12.4	<b>Approval of Budget estimate for COE section for the year 2021-2022(Even semester)</b>
<b>Details</b>	The committee reviewed the Budget and Expenditure for CoE for the Odd semester 2021-2022 and the Budget of CoE for Even Semester for 2021-22 approved. The details are given in Annexure – III



	details are given in Annexure – III. <ul style="list-style-type: none"><li>• The audit statement for the year 2020-2021 will be presented during the next Finance committee meeting.</li></ul>
11.4	Any other item.
Details	Nil



FINANCE COMMITTEE – CHAIRMAN

(Dr.N.RENGARAJAN)



Dr.N.Rengarajan, B.Sc., B.Tech., M.E., Ph.D.,  
PRINCIPAL  
NANDHA ENGINEERING COLLEGE  
(Autonomous)  
ERODE - 638 052.







**\* Functions and Responsibilities of the Administrative and Academic Bodies:**

The details of the various Administrative and Academic bodies are given in the Table B.10.1.3c.

**Table B.10.1.3c Functions and Responsibilities of the Administrative and Academic Bodies**

S. No	Name of the Body	Members	Frequency of Meeting	Functions
1	Governing Body	Management Representatives, Eminent Professionals from Engineering and Technology, Academicians of Excellence, University/ State / Central Government Nominees, Special Invitees, Member Secretary - Ex-Officio (Principal)	Twice in a year	<ul style="list-style-type: none"> <li>• Long term Planning</li> <li>• Formulation of HR policy</li> <li>• Amend and Approve policies from time to time</li> <li>• Policy decision regarding quality maintenance in teaching-learning, research and development activities</li> <li>• Review of academic performance of the institution and suggest remedial measures</li> <li>• Fine tuning financial management systems</li> <li>• Identifying measures for taking care of academic, infrastructure, students' welfare and Rand D activities.</li> <li>• Review of Audit Reports, Financial accounts and budget</li> <li>• Framing administrative policies for the institution and delegating powers and responsibilities according to vision, mission and long-range policies for effective faculty, student and Management coordination</li> <li>• Approval of increase in intake and new Course</li> <li>• Approval of revised appointments for Academic Autonomy</li> <li>• Approval of resolution passed by Finance Committee</li> <li>• Approval of Resolution passed by Academic Council</li> <li>• Approval of semester results for UG/PG</li> <li>• To ensure the impact of the institution for the community through charitable activities during normal and times of distress</li> </ul>
2	Academic Council	Principal, Deans, HODs, Faculty representatives, student representatives, experts from outside the college representing Industry, Commerce,	Twice in a year	<ul style="list-style-type: none"> <li>• Approval of modification in the Regulation.</li> <li>• Scrutinize and approve the proposals with or without modification of the Boards of Studies with regard to courses of study, academic regulations, curricula, syllabi and modifications thereof, instructional and evaluation arrangements, methods, procedures relevant thereto etc., provided that where the Academic Council differs on</li> </ul>

		Law, Education, Medicine, Engineering etc., nominated by Governing Body, three nominees of the University, Faculty member nominated by Principal		<p>any proposal, it shall have the right to return the matter for reconsideration to the Board of Studies concerned or reject it, after giving reasons to do so.</p> <ul style="list-style-type: none"> <li>• Make regulations regarding the admission of students to different programs of study in the college keeping in view the policy of the Government.</li> <li>• Approval of curriculum and syllabi of UG/PG</li> <li>• Make guidelines for sports, extra-curricular activities, and proper maintenance and functioning of the playgrounds and hostels.</li> <li>• Amendment made in the Board of Studies</li> <li>• Recommend to the Governing Body institution of scholarships, studentships, fellowships, prizes and medals, and to frame regulations for the award of the same.</li> <li>• Approval of semester results for UG/PG</li> <li>• Approval of panel of examiners for odd/even semester</li> <li>• Recommend to the Governing Body proposals for institution of new programs of study.</li> <li>• Advise the Governing Body on suggestions(s) pertaining to academic affairs made by it.</li> </ul>
3	Standing Committee for Academic Affairs SCAA	Principal, Deans and HODs	Twice in a year	<ul style="list-style-type: none"> <li>• Scrutinize and recommend the proposals with or without modification of the Boards of Studies with regard to courses of study, academic regulations, curricula, syllabi and modifications thereof, instructional and evaluation arrangements, methods, procedures relevant thereto etc., to Academic council. Approval of modification in the Regulation.</li> </ul>
4	Board of Studies	Head of the Department (Chairman), Entire	Twice in a year	<ul style="list-style-type: none"> <li>• BoS receives the recommendations and inputs from syllabus sub-committee based on industry and academic experts' feedback related to the content of syllabi.</li> </ul>



		faculty of the program, student representatives, experts in subject from outside the college nominated by Academic Council, one expert nominated by University from panel recommended by college, representative from Industry relating to placement, postgraduate meritorious alumnus nominated by Principal		<ul style="list-style-type: none"> <li>• Discuss the syllabus content of courses and their alignment with current industry requirement</li> <li>• Prepare syllabi keeping in view the requirements and suggestions of stake holders, forwards same for approval to Academic Council</li> <li>• Suggest methods for innovative teaching and assessment tools</li> <li>• To discuss adequacy of infrastructure and its modernization</li> <li>• Facilitate industry collaboration</li> <li>• To approve panel of examiners</li> </ul>
5	Finance Committee	Principal (Chairman), One person nominated by the Governing Council of the college, one senior faculty nominated by Principal (in rotation)	Once in a year	<ul style="list-style-type: none"> <li>• To discuss and consider budget estimates of the institution</li> <li>• The Finance Committee shall act as an advisory body to the Governing Body, to consider: Budget estimates relating to the grant received/receivable from UGC, and income from fees, etc. collected for the activities to undertake the scheme of autonomy</li> <li>• To discuss and consider income from fees collected from students</li> <li>• Audit accounts for the above.</li> </ul>



6	Disciplinary Committee	Deans, Head of Departments, Senior faculty from college, Student counselor	Twice in a year / Need based	<ul style="list-style-type: none"> <li>• To inculcate the spirit of discipline among the student community and emphasize the importance of college character in life</li> <li>• Ensure a ragging free campus</li> <li>• Cater to the needs of both hostel and day scholar students by providing required infrastructure as per needs of the students.</li> <li>• Provide and monitor all facilities for students' welfare (facilities in classroom etc.,)</li> <li>• To identify the causes of violation of code of conduct /discipline and suggests measures for preventing it.</li> <li>• Take care of disciplinary activities in the campus</li> <li>• Arrange for counseling for needy people</li> </ul>
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**\* Policies and Procedures:**

Nandha Engineering College has defined policies which were developed with involvement of various stakeholders including HR team, Principal, members of Management and members of the Governing Council. The policy was developed in the year 2005 and based on the needs and it was revised and new policy amendments were brought in for the stakeholders.

The HR policies include

- Faculty recruitment
- Salary and Incentive
- Leave rules
- Promotion and Retirement policy
- Discipline and Grievance procedure
- Faculty Development – R&D and Consultancy
- Appraisal policy





**NANDHA ENGINEERING COLLEGE**  
 (An Autonomous Institution, Affiliated to Anna University,  
 Chennai and approved by AICTE New Delhi)  
 Erode – 638 052, Tamilnadu, India.



## Human Resource Policy Handbook



**NANDHA ENGINEERING COLLEGE**  
 (AUTONOMOUS)  
 (Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)  
 ERODE – 638 052 TAMILNADU

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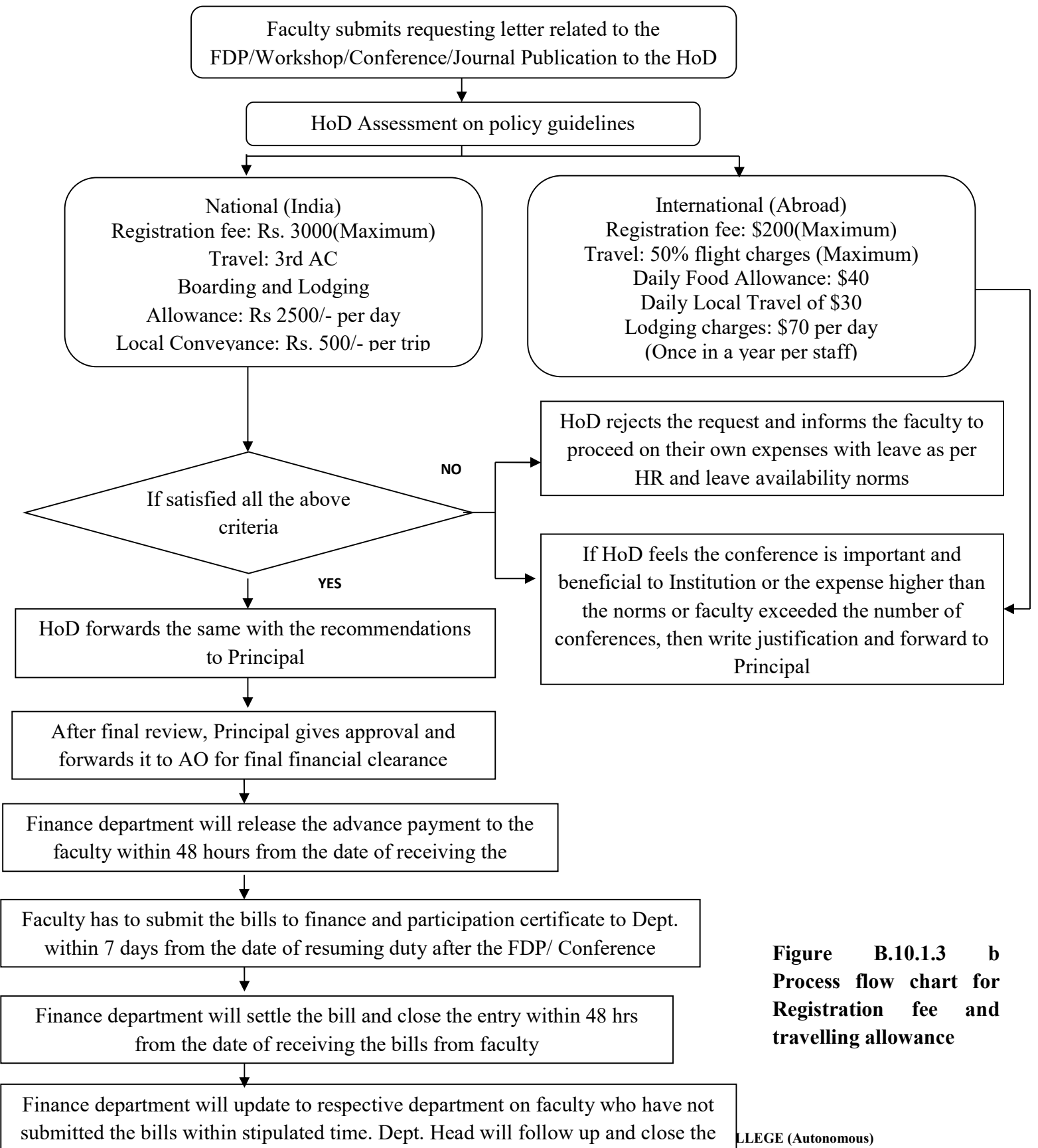
**Figure B.10.1.3a HR Policy Handbook**



**NANDHA**  
**ENGINEERING COLLEGE (Autonomous)**

Updated process flow chart for Registration fee and travelling allowance for FDP /workshop/conference is provided here. Updated FDP policy is provided here





**Figure B.10.13 b**  
**Process flow chart for**  
**Registration fee and**  
**travelling allowance**

**10.1.4 Decentralization in working and grievance redressal mechanism****(5)**

List the names of the faculty members who have been delegated powers for taking administrative decisions. Mention details in respect of decentralization in working. Specify the mechanism and composition of grievances redressal cell including Anti Ragging Committee and Sexual Harassment Committee.

**Table B.10.1.4a Delegation of Institution level Responsibilities**

NANDHA ENGINEERING COLLEGE (AUTONOMOUS) INTERNAL QUALITY ASSURANCE CELL			
ACADEMIC WORK RESPONSIBILITIES: ACADEMIC YEAR - 2022 - 2023			
S.NO	ACTIVITIES	COORDINATOR	TIMELINE
1	Academic Schedule & Calendar	Dr.E.K.Mahalingam	August 1st week
2	Dep. Form Calendar Co-Curricular/Extracurricular Activities	HODS	August 2nd week
3	Time Table	Dr.E.K.Mahalingam	August 3rd week
4	Department Meeting	HODS	Weekly basis
5	Program Assessment Committee (PAC)	HODS	July 2nd week and Nov 2nd week
6	Department Advisory Board (DAB)	HODS	4th week of July & 2nd week of December
7	Board of Studies	HODS	July 3rd week, December 4th week
8	Regulations, Academic Council & Governing Council	IQAC & Dr.M.Eswaranthara Mr.T.Venkatesh	August 2nd week, January 1st week
9	MSME, CPD, IIR, IIC, Innovation, Industry Interface, Intellectual Property, Copyrights, NSIP	Dr.M.Eswaranthara Mr.Vishnu, CPD	Continuous
10	MAU/Centre of Excellence	HODS	1 per semester
11	Student Project (In-house and Industrial) / Field work / Internship / IPT	Dr.E.K.Mahalingam	Mandatory for all
12	PBL projects	Mr.S.Pavani	Continuous
13	Industrial Visits	Dr.P.Sudhakar & Dr.M.K.Murthi	1 per year
14	HPC & Center of Excellence PALS Nani Mahalingam(NM) Nalaya Thiruvai (NT) Indigo Campus Connect (ICC) ICT Academy (ICTA)	Dr.C.Niva, HOD/IT Dr.S.Prabhu (PALS) Mr.K.L.Rajasekar/Civil Mr.T.Jayachandran (NT) Mr.Sakrithi/IT (ICC) Ms.Durgika/CTE (ICTA)	Min 3 Center of Excellence and 3 industry support laboratory
15	Learning Management System (LMS) & Campus	Mr.T.Jayachandran, IIT	5 per year
16	Examination Calendar (UAT & End Sem), Examination Cell & Controller of Examinations	Dr.C.N.Murugesan Mr.Praveen Suresh Mr.S.Gudamarajasekar	As per Academic calendar
17		Dr.S.Arangan Dr.P.Thiruvorally Mr.V.N.Krishnamoorthy Mr.N.Jayachandran Mr.R.Saravanan	
18	Feedback From Student, Teacher/Employer, Alumni & to ATR	Dr.L.Jayaraman & Mr.V.Harichandran	December 1st week & April 4th week
19	Student Exit Survey	HODS	April 4th week







21	Class Committee Meeting	Dr.E.K.Vellingiri Raj	November 1 <sup>st</sup> week	April 2 <sup>nd</sup> week
22	Parents Meeting	Mr G Prabhakaran, ECE	November 2 <sup>nd</sup> week	April 2 <sup>nd</sup> week
23	Mentoring	Dr.M.Vijayalakshmi Dr.M.Dhiju	October 1 <sup>st</sup> week	November 4 <sup>th</sup> week
24	Research and Development Research Event Calendar and Activities Research Promotion & Mobilization Policy	Dr.C.N.Murimuthu Mr G Prabhakaran, ECE Ms K Shanmugasriya, CSE	Continuous	
	Faculty Publications & Citations, Book & Book Chapter, Scod Mmexy		Continuous	
	R&D Grants - Project Grants EDP, STIP, Seminar Grants PMKVY & Student Project Grants		Continuous	
	Aboard Research Internship & Institute Partnership (MoU with Academic Institute)		Continuous	
	Testing and Consultancy		Continuous	
25	Reformation	Dr.C.N.Murimuthu Mr Prabh, ECE	Continuous	
26	NPTL-SWAYAM Online Course	Dr.E.K.Moharaj Mr K.L. Ravishankar	January & July	
27	Region Transfer - Course Equivalence, Add/Drop Course Registration, Course Exemption Of Summer Track		September & January	
28	One Credit Course & Value Added Courses		September & January	
29	Quarterly Presentation		Once in a 2 month	
30	Department Placement Activities	HoDS	Continuous	
31	Monthly Presentation	HoDS	Continuous	
32	Membership in Professional Bodies (college/individual) Professional Chapters and its Activities	Dr.D.Vazhi Mr Pradeepkumar	Once in a semester	
33	Awards and Achievements Dep/Faculty & Student	HoDS	Continuous	
34	Computing Facilities, Internet, Firewall, Access Point & Maintenance	Dr.C.Siva Mr.T.Ganasekaran, System admin	Continuous	
35	Student affairs - Health Care and Insurance, Scholarship	Dr.M.K.Murthi Dr.M.Methil Ms Parithosar, English Ms P.S.Niji Ms D.Ahila Anju	Continuous	
	36	Student Skill Enhancement Activities Competitive Examination Bridge Course/ Career Counseling Higher Education	Dr.N.Subramanian Mr.B.Vinoth Kumar	Continuous
37	Praniti Activities - Outreach Programs	Mr.R.Thirumelakandan	Continuous	
38	Awards And Achievements - College	IQAC	Continuous	
39	Best Practices Environment Consciousness And Sustainability	Mr.R.Thirumelakandan	Continuous	
40	College News Letter	Ms P.Kavitha, AP/English	January	
41	Department News letter	HoDS	1 <sup>st</sup> week of September	
42	Co-Curricular Activities	HoDS	Continuous	

	Exams – Curricular Activities (PCCU)	Dr P Jayaram, IIT Ms. Brindha, APJCE Ms P Jayalalitha	
	Cultural Club	Ms. Abhis Anji APJCE	2nd yr
	NYS	Mr. B. Manjunatharam Ms. Loganayagi P, APJCE Mr. Jayashree, Chemical Ms. Manjula, I.I.T.	2nd yr
	YBC Club	Ms. Anurupa prabha Ms. Sruthamurali M	2nd yr
	Horror Club	Dr M K. Manthi	2nd yr
	Fine Arts Club	Ms. Suganya. Arganalla Ms. Sruthamurali S. R. IIT	2nd yr
	Photography Club	Dr. Subudhanu. R. Ms. Infira J. M & DS	2nd yr
43	Road Safety club	Ms. A. Maheswari, APJCE Mr. Kalibragandhi, IIT Mr. Abhishek Kumar A, Civil	2nd yr
	Music Club	Ms. Parvathamma, English Ms. Karthika, Chemical	2nd yr
	Sports Club	Mr. Venkta, IIT Mr. Aravindkumar, APJCE Ms. Sugathika, English Mr. Chandramohan, Agri Ms. Sureshbabu, BME	2nd yr
	Tree Plantation Club	Ms. Pratha M IIT Ms. Nivethika M IIT Mr. M. Aravindkumar, IIT	2nd yr
	Tricking Club	Mr. B. Vellinganathan, Mech Mr. C. S. Manjunatharam, Maths Ms. B. Anvita Mr. Shikha, Physics Mr. Aravindkumar, IIT Ms. Gayathri, Chemical	2nd yr
44	Budget & Finance Committee Internal / External Finance Audit	Dr. G. Ramesh Mr. B. Ramesh	4
45	Faculty And Department Approval	Dr. Manjunath	4
46	Financial Support to Faculty Member for Skill upgradation	HQAC	

81	Staff Development For Faculty Member - (CID, (work shop, seminar, FDP, STP, ...) Development / Administrative Training Programs For Teaching & Non-Teaching Members	Dr. V. Manickalai/MBA Mr. R. Duraimahalingam	1st year
82	Website Updates	Mr. C. Narasimhan	
	Department Visitors Book	Dr. DS	
83	Visitors Book	Mr. K. Subramani/Principal Office	
84	Institutional Reports	IQAC	
85	FDP Cell	Mr. Arulian Mr. T. Jothilaxmi	2nd year
86	Women Development Cell	Dr. M. Mythili Ms. J. Anantha priya Ms. B. Anantha. Mathi	2nd year
	Grievance Redressal Committee(CMHC/GRMAN)	Dr. S. Karuppusamy Mr. C. Mani / CSE	2nd year
87	Anti - Ragging Committee & Anti Ragging Squad	Dr. M. K. Murthy Dr. M. Vijayalakshmi/Chair Mr. K. J. Jeyaraj/MCA	2nd year
88	Committee For Welfare of SC/ST	Mr. A. K. Velamuri, AO Mr. C. Saravanantharam, DS Mr. K. Rajasekaran	2nd year
89	Minority Cell	Mr. A. K. Velamuri, AO Mr. J. Anantha Priya Dr. Anantharaman	2nd year
90	Alumni Association & Chapters	Mr. C. Vasudevan, IT Mr. V. Paramasivan, UCE	2nd year
91	Sexual Harassment Committee	Dr. V. Ananthakrishna/MBA, Mr. K. Sathya AP/Civil	2nd year
92	College Cultural Committee	Mr. R. Duraimahalingam Ms. S. Jothilaxmi	2nd year
93	Library Committee	Dr. K. Subagapathi Dr. Thyagarajan	2nd year
94	Safety Cell	Mr. S. Eswaran / Mechanical	2nd year
95	Agri Development Cell	Mr. S. J. Subramanian /FD Mr. V. Rajasekaran	2nd year
96	Board	Dr. U. N. Marimuthu Mr. A. K. Velamuri /AO Dr. J. Jayaraman	2nd year
97	Academic, Administrative and CDR Audit	IQAC &	



71	IQAC & Other Bodies	IQAC	
72	Institute Vision And Mission Revision	IQAC	Aug
73	Students Enrollment/BOE approval Status/Discontinue	IQAC	
74	Constitution of All India - SCAA (Standing Committee For Academic Affairs)	IQAC	Aug
75	All India Statutory Committee	Dr V. Muralidhara Mr N. Sankarabharathi	2nd year
	Actions - Reporting of Communication from UGC/AICTE/AU/Local Authorities	Mr A. K. Velamuri - AICTE	
76	AICTE Mandatory Plan	IQAC	
77	NBA & NAAC Accreditation	Dr S. Kavitha Dr E. K. Mohana	
78	E Waste Management	Mr. J. Jayachandran, ECE	
79	Waste Management	Mr Abdul Ajmal	
80	Water Facility conservation and Management	Mr P. Jeyachandran, Maths	
81	Energy Audit	Mr Prudha, EEE	
82	Student Profiling	IQAC	Sept
83	Faculty	Ms S Kavitha   CSE	
84	Strategic planning and development	Dr M. Ganeshramani Mr Rajkumar, Mech	

NBAAC EDUCATION

Majority of the decisions within the department are taken by the respective heads of the departments.

A core team comprising of senior faculty members lead the major process in the institute to realize that all the process is followed and are intact. Under the chairmanship of Principal various committees are formed to take care of different Decentralized activities in respect of academics, curricular and co-curricular activities. The following table provides the details of various committees and coordinators of the committees.

**\* Statutory and Non-Statutory Committees**

S. No.	Name of the Committee	Responsibility
1.	Governing Body	Dr. Easwaramoorthi M
2.	Academic Council	Mr. Venkateshan T/ Mech
3.	Board of Studies	Respective Department HoDs
4.	Finance Committee	Dr. G. Ramani

S. No.	Name of the Committee	Responsibility
1	IQAC Cell NIRF and Other ranking	Dr.Kaviths.S/ECE Ms.Maheshwari.S/CSE Ms.Logeswari.V/ECE Dr.Muthu Kumar M/Mech
2	Planning and evaluation committee (5 years strategic plan)	Dr.Eswaramoorthi M/Mech Mr.Rajkumar/Mech
3	Admission committee	Dr.Siva.C/IT Mr. R. Thiruneelakandan, Physics
4	Controller of examinations	Dr.Thirumoorthy.P/CSE Mr.Loganathan. V N/Mech Mr. Jagaadesan S / MCA Mr. Navin Kumar R/MCA
	Examination cell	Dr.Marimuthu C N/ECE Mr. Gnana Venkatesh S/Civil Mr.Praveen Santhosh Kumar G/ ECE



5	Grievance Redressal Committee	Dr.Jamuna P /EEE Mr.Mani C/CSE
6	Women Development Cell	Dr.Mythili.M/Civil Ms.Amutha Prabha /Maths Ms.Amutha R / Maths
7	Anti-Ragging Committee and Anti-Ragging Squad	Dr.Murthi M K/Mech
8	Committee for welfare of SC/ST	Mr.Velusamy A K/AO Mr.Somasundaram.C/Office Mr.Rajasekaran.K/Chemical
9	Alumni cell	Ms.Vasuki.C/IT Ms.Pameswari.V /ECE
10	Student welfare committee	Dr.Murthi M K/Mech
11	Sexual Harassment committee	Dr.Manimegalai.V/MBA
12	Extra-curricular activities (PCD) and cultural committee	Ms.Eswari.K E /MCA/MCA Ms.Brindha.S/ECE Ms.Devi.P/Maths Ms.Suganti.S/English
13	Hostel	Dr.Marimuthu C N/ECE Muthupandi K /Warden
14	Research and Development cell	Dr.Marimuthu C N/ECE
15	Library Committee	Dr.K.Sadagopan
16	Academic Audit Committee.	Dr.Mohanraj.E K/Civil Zahira jahan N /MCA

Table: 10.1.4b Statutory and Non-Statutory Committees and Coordinators





**NANDHA**  
ENGINEERING COLLEGE  
(Autonomous)

# INSTITUTION ORGANOGRAM

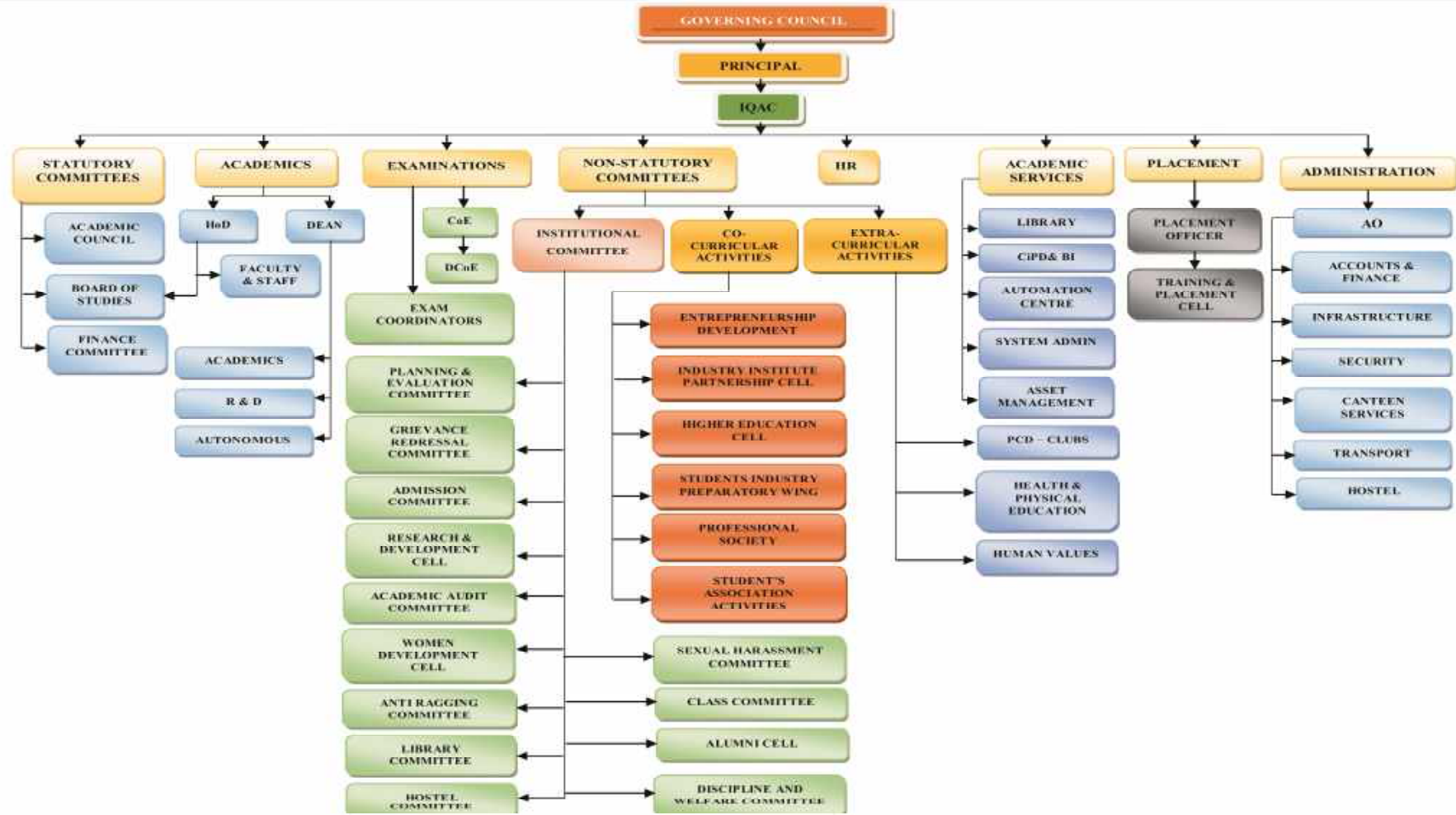


FIGURE B.10.1.4a NEC – Institutional Organogram



NANDHA  
ENGINEERING COLLEGE (Autonomous)

**\* Grievance Redressal Cell**

The College has a student grievance redressal cell headed by a coordinator supported by an assistant coordinator, staff member and one student representative from each department as members of this cell. The class committee constituted by HoDs also discusses/ solves issues related to student's grievances.

Members of Grievance Cell details are provided in Table B.10.1.4c

**Table: B.10.1.4c Grievance Cell Members Details**

Members Name	Profession	Associated with	e-mail Address
Dr. N. Rengarajan	Chairperson	Principal	principal@nandhaengg.org
Dr. P. Jamuna	Convener	EEE	jamuna.ponnusamy@nandhaengg.org
Mr. A.K.Velusamy	Member	AO	aotechcampus@nandhainstitutions.org
Dr. S. Karuppusamy	Member	CSE	karuppusamy.s@nandhaengg.org
Mr. C.Mani	Member	CSE	mani.chinasamy@nandhaengg.org
Ms. C.Navamani	Member	CSE	navamani.chinnasamy@nandhaengg.org
Mr. S.Muruganantham	Member	MECH	muruganantham.somasundaram@nandhaengg.org





**Other cells**

The institution is having following cells to provide redressal of issues.

**\* Women Development Cell (WDC)**

To provide a Conducive environment for women staff, students to protect and safeguard their rights and to empower them. "Women Development Cell" has been constituted at Nandha Engineering College, Erode. This cell basically monitors all aspects pertaining to girl students and women staff members of the Institution. The following are the major activities of this committee:

- i) Redressal of issues of Sexual harassment for the Women Employee and girls Students in the College if any.
- ii) To conduct gender sensitization programme for the Prevention and Prohibition of gender-based violence.
- iii) Organizing programmes which bring about attitudinal and other changes for effective participation of women from all levels.
- iv) It undertakes, promotes and coordinates both fundamental and applied research on women and development.
- v) Develops and promotes (in collaboration with other agencies) educational training and action programmes for women, especially under privileged women.
- vi) Organizing various activities such as lectures, seminars, movies, panel discussions, elocution, role plays, games etc., promoting gender equality and gender amity and women empowerment.

**\* Anti-Ragging Committee**

Nandha Engineering College has always taken adequate measures for prevention and control of ragging every year. And the ragging in the campus is strictly prohibited. The college would like to alleviate the fear and provide a conducive environment for learning during the initial period of the course. Following the Honorable Supreme Court's direction, we aim to make Nandha Engineering College a ragging free campus.

**\*Functions of Anti-Ragging committee**

- Rules framed under TN. Prohibition of Ragging Act, 1977 under Section 8.



- Any complaint of ragging should be made to the college management / appropriate committees by a student within three days of its occurrence.
- The management should complete the enquiry within 72 hours and file a complaint with the police if it is found a student or any other person guilty of ragging. On receipt of the complaint, the police will register a case and proceed further in accordance with law.
- The management should also report the details to the university to which it is affiliated and to the head of the department concerned and also to the Government. Similarly, in case of conviction, the officer-in charge of the police station would send a report to the college management, university, department concerned and the Government.
- A student, who was placed under suspension based on the complaint of ragging, is ultimately not convicted, the management shall revoke the suspension and the period of suspension of such student shall be treated as if the student had attended the classes.
- A student who desires to discontinue the course in the middle of the curriculum will be bound by the decision of the University Authorities.
- Smoking is strictly prohibited in the institute premises. Students found smoking in the premises will face disciplinary action.
- Students should avoid bringing mobile phones to their classes. The institute seeks the co-operation of parents/guardians to discourage their wards in carrying cell phones to the institute.
- Those found violating this are liable to be debarred from taking the University Examination and their phones will be confiscated.

**\* Important Instructions about Ragging**

- The Hon'ble Supreme Court of India, New Delhi by its order dated 16.05.07 in SLP (C) No.24295/2004 stated the following in order to curb the menace of RAGGING in Educational Institutions.
- "If any incidents of Ragging comes to the notice of the authority, the concerned students shall be given liberty to explain and if his explanation is not found satisfactory, the authority would expel him from the institutions"



- The above directions of the Hon'ble Supreme Court of India will be strictly implemented.

#### \* Rules and Regulation

- Ragging is strictly prohibited.
- All information in connection with college activities / examinations, scholarship, enrollment, sports etc., shall be displayed in college / department notice boards.
- Provoking other students by means of abusive language, harsh behavior or indulging in violent activities is punishable.
- Dress code is compulsory.
- Usage of mobile phones, tabaco products, alcohol, banned drugs and narcotic substances are strictly prohibited.
- Students need to be punctual to the classes.
- Crowding and grouping inside and outside the college premises should be avoided.
- Utmost care should be taken in maintaining college properties.
- Students are expected to maintain cleanliness inside the campus premises.
- Sticking bills and writing on the walls / roads are to be avoided.
- Wearing identity cards within the college premises is a must.
- Road safety rules should be strictly followed while driving vehicles.
- Use stipulated parking areas for vehicles.
- Wearing lab coats during the lab hours is essential.
- Students shall not be allowed to go outside the campus without the permission from the department.

#### \* Sexual Harassment Committee

The College has a cell and mechanism to resolve issues of sexual harassment. The strong values and sense of morality are instilled to the students in order to promote cordial relation between girls and boys. There has been no sexual harassment reported. The behaviours of the students are regularly monitored by class coordinators to establish a strong feel of social responsibility and mutual respect among them.

Members of Anti-Ragging committee, Anti-Ragging squad and Sexual Harassment Committee details are provided in Table B.10.1.4d and Table B.10.1.4e



**Table B.10.1.4d List of Anti-Ragging Committee Members and Anti-Ragging Squad Members**



## NANDHA ENGINEERING COLLEGE (Autonomous)

*Affiliated to Anna University Chennai ♦ Approved by AICTE ♦ Accredited by NBA-New Delhi*  
Pitchandampalayam, (P.O), Valkkalmedu, Erode - Perundurai Road, Erode - 638 052

Phone : 04294-225585, 223711, 223722, 226393 Fax : 04294 - 224787

Website : [www.nandhaengg.org](http://www.nandhaengg.org)

E.mail : [info@nandhaengg.org](mailto:info@nandhaengg.org)

**Dr. N. Rengarajan** B.Sc., B.Tech., M.E., Ph.D.  
PRINCIPAL

### ANTI-RAGGING COMMITTEE (2022-2023)

Name of the Member	Position	Designation	Mobile Number
Dr. M. K. Murthi	Chief Coordinator	Prof/Mech	73737 37471
Mr. K. S. Mohan	Coordinator	AP/Physics	97897 50511
Dr. E. K. Mohanraj	Member	HoD/Civil	73737 14706
Dr. G. Ramani		HoD/EEE	99407 78576
Dr. N. Subramanian		HoD/Chemical	97897 80967
Ms. M. Parvathi		HoD/AI&DS	73737 50507
Mr. Thangadurai		Sub Inspector of Police	9698141118
Mr. Selvin		Reporter- Dinathanthi News	9842408012
Mrs. T. Mohanapriya		Student Member	Final Year EEE
Mr. K. William Richard	Final Year Mech		9629908113
Mr. S. Rajeshkumar	Final Year Chemical		7603993792

### ANTI-RAGGING SQUAD MEMBERS (2022-2023)

Name of the Member	Position	Designation	Mobile Number
Dr. M. Vijayalakshmi	Committee Squad	Prof/Chemistry	94437 57680
Dr. C. Siva		HoD/IT	97506 80111
Dr. D. Vanathi		HoD/CSE	73737 40011
Mr. K. Pradeep Kumar		HoD/Agri	99656 15038



2

*N. Rengarajan*  
PRINCIPAL  
**PRINCIPAL**  
Nandha Engineering College  
(Autonomous)  
Erode - 638 052.



**NANDHA**  
ENGINEERING COLLEGE (Autonomous)

**Table B.10.1.4e List of Committee against Sexual Harassment**

S.No.	Name	Designation	Email ID
1.	Dr. V. Manimegalai	Prof. /MBA	Manimegalai.v@nandhaengg.org
2.	Ms. R. Kavitha	Panel Lawyer, District Legal Service Authority, Erode	Kavithasujeeth4@gmail.com
3.	Parvathi M	Prof./ CSE	Parvathi.m@nandhaengg.org
4.	Parameswari. J	AP/ ECE	erparam@gmail.com
5.	Selvi K	AP/ Civil	Selvi.kaliappan@nandhaengg.org
6.	Nandhini K	AP/ MBA	Nandhini.k@nandhaengg.org
7.	Amutha K	Lab Assist/ IT	amuthakanna@nandhaengg.org
8.	Sathya R	Lab Assist/ MBA Supporting Staff	Sathya1562001@gmail.com

**10.1.5 Delegation of Financial Powers****(5)**

Institution should explicitly mention financial powers delegated to the Principal, heads of Departments and relevant in-charges. Demonstrate the utilization of financial powers for each of the assessment years.

Principal is authorized to sanction up to Rs. 1 Lakh for institutional expenses like organizing events, sponsoring faculty members for attending programs, purchase of items for laboratory, maintenance, etc. The Heads of the department are authorized to sanction up to Rs. 25,000/- for departmental expenses.

Department heads will prepare and submit the budget proposals for purchase of capital equipment/consumables, service of equipment/machinery every year. Upon approval of the same by the management, purchases of consumables and capital equipment are made through the purchase/Finance department of the college.





## SRI NANDHA EDUCATIONAL TRUST

291, Chinnamuthu Street, E.K. Valasu, Erode - 638 011. Tamil Nadu.

STD : 0424  
 ☎ OFF : 2264655  
 Fax : 2260058

### EXTRACT OF THE MINUTES OF GOVERNING BODY MEETING OF

SRI NANDHA EDUCATIONAL TRUST,

ERODE-638011.

HELD ON 25.03.2015

**Present:**

1. Thiru.V.Shanmugan
2. Thiru S.Nandhakumar Pradeep
3. Thiru S.Thirumocethi
4. Tmt.S.Baanumathi

**Sub: Revision of Financial Powers- Nandha Engineering College- Reg.**

**Proposal:**

It is proposed to give financial powers to The Principal and HoDs of Nandha Engineering College as below

S.No	Designation	Total Expenditure (Capital & Revenue ) Per Annum	Maximum permissible expenses per occasion
1.	Principal	100000	5000
2.	HoD	25000	3000

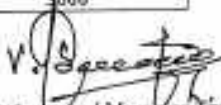
The proposal is place before the Governing body for approval.

**Resolution:**

Resolved to approve the Financial powers of The Principal and HoDs of Nandha Engineering College as below

S.No	Designation	Total Expenditure (Capital & Revenue ) Per Annum	Maximum permissible expenses per occasion
1.	Principal	100000	5000
2.	HoD	25000	3000

The powers approved as above shall be in force till further revision.

  
 Chairman and Managing Trustee  
 Sri Nandha Educational Trust,  
 Erode

**10.1.6 Transparency and availability of correct/unambiguous information in public domain. (5)**

*(Information on policies, rules, processes and dissemination of this information to stakeholders is to be made available on the web site)*

The NEC website provides details about the faculty and staff, mandatory disclosure, audited statements, institutions policies, rules and processes. The details various activities in the college and achievements of faculty and students in various inter-college, national and international level events are posted in the college website and available in the following link.

**College website: <https://www.nandhaengg.org>**



**Figure B.10.1.6 College website page**

Transparency is also maintained and all information about the college, decisions taken, rules implemented, events organized etc. are disseminated through the college mail to all faculty members and students. Each faculty and student members are provided with an e-mail account, which they may log in at any time of the day and use it for exchanging information and important documents. The information is also disseminated to the entire newly recruited faculty members during the faculty orientation conducted for the newly recruited faculty members.

Transparency in other curricular matters:

- Policy decisions taken in the Governing Body meeting is conveyed to HoDs time to time by the Principal
- Decisions of HoDs meeting with Principal are also conveyed to all faculty members and students.
- Details related to examinations and assessments are duly conveyed to faculty and student members well in advance as per the schedule given in the academic calendar.



**NANDHA**  
**ENGINEERING COLLEGE (Autonomous)**

- Attendance, Continuous Assessment marks of both theory and laboratory courses are conveyed to the students and parents.
- Annual budget prepared by the department coordinators is reviewed by the HoDs and then submitted to Principal for approval. After approval of budget, quotations are called; compared and final orders are placed for purchase of items/equipment.
- High valued items/equipment (more than one lakh) quotations will be scrutinized by a committee.





Table B.10.2a(i) Budget Allocation and Utilization of CAYm1 2020-2021

CAY : 2020-2021							
Total Income in CFY : 118246298.00				Actual Expenditure in CFY : 72715136.00			Total No. of students in CFY: 2770
Fee INR (Lakhs)	Govt. INR (Lakhs)	Grant(s) INR (Lakhs)	Other sources (Specify) INR (Lakhs)	Recurring including salary INR (Lakhs)	Non-recurring INR (Lakhs)	Special Projects/Any other, Specify INR (Lakhs)	Expenditure per student INR (Lakhs)
114995835.00	0	1674500.00	1574963.00	69297728.00	3417408.00	0	26251.00



## CAYm3 : 2018-2019

Table B.10.2a(ii) Budget Allocation and Utilization of CAY 2019-2020

## CAYm2 : 2019-2020

Total Income in CFY : 154460318.61				Actual Expenditure in CFY : 139522490.6			Total No. of students in CFY: 2713
Fee INR (Lakhs)	Govt. INR (Lakhs)	Grant(s) INR (Lakhs)	Other sources (Specify) INR (Lakhs)	Recurring including salary INR (Lakhs)	Non-recurring INR (Lakhs)	Special Projects/Any other, Specify INR (Lakhs)	Expenditure per student INR (Lakhs)
129166000.00	0	0	25294319.00	132063205.00	7459286.00	0	51428.00

Table B.10.2b(iii) Budget Allocation and Utilization of CAYm1 2018-2019



Total Income in CFYm1 : 148654364.00				Actual Expenditure in CFYm1 : 148654364.00			Total No. of students in CFYm1: 2727
Fee INR	Govt. INR	Grant(s) INR	Other sources (Specify) INR	Recurring including salary INR	Non-recurring INR	Special Projects/Any other, Specify INR	Expenditure per student INR
127240000.00	0	0	21414364.00	135105018.00	13549346.00	0	54512.00

Table B.10.2b Budget Allocation and Utilization under different categories



NANDHA

ENGINEERING COLLEGE (Autonomous)

S. No.	Items	Budgeted in Rs.	Actual Expenses in Rs.	Budgeted in Rs.	Actual Expenses in Rs.	Budgeted in Rs.	Actual Expenses in Rs.
		2020-2021	2020-2021	2019-20	2019-20	2018-19	2018-19
1	Infrastructure Built-Up	4000000.00	1918599.00	22100000.00	1188461.00	10800000.00	1374111.00
2	Library	1800000.00	1498809.00	1200000.00	2863437.00	2500000.00	1217438.00
3	Laboratory equipment	6000000.00	0	4000000.00	2360000.00	13639000.00	2757149.00
4	Laboratory consumables	800000.00	95510.00	545000.00	381357.00	717000.00	306283.00
5	Teaching and Non-teaching staff Salary	95000000.00	53875980.00	90500000.00	96570428.00	116800000.00	99315131.00
6	Maintenance and spares	8000000.00	2212526.00	20700000.00	1494628.00	23750000.00	1152999.00
7	R & D	1000000.00	4316470.00	800000.00	807388.00	1000000.00	1545530.00
8	Training and Travel	3000000.00	2244662.00	2350000.00	730645.00	2700000.00	1396372.00
9	Miscellaneous allowances (Sports, Department and college functions)	2000000.00	1852761.00	9600000.00	3908489.00	9500000.00	5225134.00
10	Others (University, Functions, Extracurricular activities)	7530000.00	4699819.00	12000000.00	28977657.59	9400000.00	37121366.00
<b>Total</b>		<b>129130000.00</b>	<b>72715136.00</b>	<b>163795000.00</b>	<b>139522490.6</b>	<b>190806000.00</b>	<b>151411513.00</b>



**10.2.1 Adequacy of budget allocation****(5)****Self Assessment (5)**

*(The institution needs to justify that the budget allocated during assessment years was adequate)*

Nandha Engineering College is a self-financing Institution run by the Sri Nandha Educational Trust. The trust manages all the financial resources of the institution. Budget requirements are prepared by the Principal. Budget requirements under ‘recurring’ and ‘non-recurring’ heads are collected from every department before the commencement of the financial year. Principal consolidates the budget requirement and it is placed before the finance committee. The budget approved by the committee is forwarded to the Secretary and Chairman. The Chairman places the budget to the Trust. The trust approves the budget. The approved budget is forwarded to the Principal, HoDs and faculty for utilization. The institution never had any serious budget crunch that affected the functioning of the college. Budget allocation under various heads was adequate for meeting the demands of the institute.



	Items	Budgeted in Rs.	% of budget allocation	Budgeted in Rs.	% of budget allocation	Budgeted in Rs.	Budgeted in Rs.
		2020-21	2020-21	2019-20	2019-20	2018-19	2018-19
1	Infrastructure Built-Up	4000000.00	3.10	22100000.00	13.49	10800000.00	5.66
2	Library	1800000.00	1.39	1200000.00	0.73	2500000.00	1.31
3	Laboratory equipment	6000000.00	4.65	4000000.00	2.44	13639000.00	7.15
4	Laboratory consumables	800000.00	0.62	545000.00	0.33	717000.00	0.38
5	Teaching and Non-teaching staff Salary	95000000.00	73.57	90500000.00	55.25	116800000.00	61.21
6	Maintenance and spares	8000000.00	6.20	20700000.00	12.64	23750000.00	12.45
7	R & D	1000000.00	0.77	800000.00	0.49	1000000.00	0.52
8	Training and Travel	3000000.00	2.32	2350000.00	1.43	2700000.00	1.42
9	Miscellaneous allowances (Sports, Department and college functions)	2000000.00	1.55	9600000.00	5.86	9500000.00	4.98



10	Others (University, Functions, Extracurricular activities)	7530000.00	5.83	12000000.00	7.33	9400000.00	9150000
<b>Total</b>		<b>129130000.00</b>	<b>100</b>	<b>163795000.00</b>	<b>100</b>	<b>190806000.00</b>	<b>100</b>

**Table B.10.2.1 Budget Allocation and Utilization under different categories**



**10.2.2 Utilization of allocated funds****(5)****Self Assessment (5)**

*(The institution needs to state how the budget was utilized during assessment years)*

Every year almost 47% of the budget is spent on teaching and non-teaching staff salary, 10% of the budget is spent on Infrastructure Built-Up and the remaining on other expenses. On an average more than 85% of the allotted fund was utilized.

**Table B.10.2.2 Utilization of allocated funds**

Utilization of allocated funds	Financial Year	Budgeted	Spent	% Utilization of funds
	2020-2021	129130000.00	11,82,46,298.00	92%
	2019-2020	163795000.00	13,95,22,490.60	85%
	2018-2019	190806000.00	15,24,11,513.54	80%

**10.2.3 Availability of the audited statements on the institute's website****(5)****Self Assessment (5)**

*(The institution needs to make audited statements available on its website)*

The audited statements are available on our college website.

**FINANCE COMMITTEE**

FINANCE COMMITTEE COMPOSITION OF MEMBERS	
Chairman	Dr. N. Ranganjan, Principal
Nominee of the Governing Body	A.Siva Prakashan, Chief Finance Officer, NANDHA Educational Institutions
Senior-most Faculty Nominated by The Principal	Dr. E. Sridagopal, Chief Librarian
Co-opted Members	S.Nandhakumar, Pradeep, Secretary, Sri NANDHA Educational Trust
	S. Tharunoorathi, Secretary, NANDHA Educational Institutions
	A.K.Velusamy, Administrative Officer, NANDHA Engineering College

**Audited Statements**





**10.3 Program specific Budget Allocation, Utilization****(30)****Self Assessment (30)**

The program specific budget allocation and its utilization is given below

**Table B.10.3a (i) Total Budget and Expenditure for CFY : 2020-2021****CFY (2020-2021)**

<b>Total Budget in CFY (INR) : 945000.00</b>		<b>Actual expenditure in CFY (INR): 727064.00</b>		<b>Total No. of students in CFY : 307</b>
<b>Non recurring</b>	<b>Recurring</b>	<b>Non Recurring</b>	<b>Recurring</b>	<b>Expenditure per student</b>
50000.00	895000.00	0	727064.00	2368.00

**Table B.10.3a (ii) Total Budget and Expenditure for CFY : 2019-2020****CFYm1 (2019-2020)**

<b>Total Budget in CFY (INR) : 1030000.00</b>		<b>Actual expenditure in CFY (INR): 756910.00</b>		<b>Total No. of students in CFY : 295</b>
<b>Non recurring</b>	<b>Recurring</b>	<b>Non Recurring</b>	<b>Recurring</b>	<b>Expenditure per student</b>
80000.00	950000.00	0	756910.00	2566.00

**Table B.10.3a (iii) Total Budget and Expenditure for CFY : 2018-2019****CFYm2 (2018-2019)**

<b>Total Budget in CFY (INR): 1250000.00</b>		<b>Actual expenditure in CFY (INR): 989709.00</b>		<b>Total No. of students in CFY : 324</b>
<b>Non recurring</b>	<b>Recurring</b>	<b>Non Recurring</b>	<b>Recurring</b>	<b>Expenditure per student</b>
75000.00	1175000.00	0	989709.00	3055.00



Table B.10.3a (iii) Total Budget and Expenditure for CFY : 2017-2018

CFYm2 (2017-2018)

Total Budget in CFY (INR): 938000		Actual expenditure in CFY (INR): 449776.20		Total No. of students in CFY : 368
Non recurring	Recurring	Non Recurring	Recurring	Expenditure per student
70000.00	868000.00	0	449776.00	1222.00



Table B.10.3b Budgeted and Actual Expenses incurred during past three years

Items	Budgeted in CFY (2020-2021)	Actual Expenses in CFY (2020-2021)	Budgeted in CFYm1 (2019-2020)	Actual Expenses in CFYm1 (2019-2020)	Budgeted in CFYm2 (2018-2019)	Actual Expenses in CFYm2 (2018-2019)	Budgeted in CFYm3 (2017-2018)	Actual Expenses in CFYm3 (2017-2018)
Laboratory equipment	50000	0	80000	0	75000	0	70000	0
Software	0	0	0	0	0	0	0	0
Laboratory consumable	5000	2000	20000	0	25000	0	18000	15246.20
Maintenance and spares	50000	3000	30000	17966	50000	19977	50000	9730
R & D	140000	120344	150000	109664	200000	183384	150000	92630
Training and Travel	400000	361032	150000	98992	200000	165888	150000	97055
Miscellaneous expenses *	300000	240688	600000	530288	700000	620460	500000	235115
<b>Total</b>	<b>945000</b>	<b>727064</b>	<b>1030000</b>	<b>756910</b>	<b>1250000</b>	<b>989709</b>	<b>938000</b>	<b>449776.20</b>



## 10.3.1. Adequacy of budget allocation

(10)

Self Assessment (10)

Table B.10.3.1a Adequacy of budget allocation incurred during past three years

Items	CFY (2020-2021)		CFY m1 (2019-2020)		CFYm2 (2018-2019)		CFYm2 (2017-2018)	
	Budgeted	% of Budget Allocation	Budgeted	Budgeted	% of Budget Allocation	% of Budget Allocation	% of Budget Allocation	% of Budget Allocation
Laboratory equipment	50000.00	5.29	80000.00	7.77	75000.00	6.00	70000	7.46
Software	0	0	0	0	0	0	0	0
Laboratory consumable	5000	0.53	20000	1.94	25000	2.00	18000	1.92
Maintenance and spares	50000	5.29	30000	2.91	50000	4.00	50000	5.33
R & D	140000	14.81	150000	14.56	200000	16.00	150000	15.99
Training and Travel	400000	42.33	150000	14.56	200000	16.00	150000	15.99
Miscellaneous expenses *	300000	31.75	600000	58.25	700000	56.00	500000	53.30
<b>Total</b>	<b>945000.00</b>	<b>100</b>	<b>1030000.00</b>	<b>100</b>	<b>1250000.00</b>	<b>100</b>	<b>938000.00</b>	<b>100</b>



Budget is prepared based on the needs and requirements of the department laboratories, R&D, Miscellaneous expenses, Training and Travel. Budget is prepared at the department level and submitted to the Principal. After the deliberations in HoDs meeting it is submitted to the management for approval. The management in consultation with HoDs, Deans and Principal approves the budget to the departments. The budget allocated to the departments is adequate to meet the requirements of each department.

### 10.3.2. Utilization of allocated funds

(20)

Self Assessment (20)

The percentage of Budget Utilization is given below.

**Table B.10.3.2a Utilization of allocated funds for three years**

Financial Year	Budget Proposed in INR	Budget Allotted in INR	Budget Utilized in INR	Budget Utilization (%)
CAY (2020 – 2021)	1000000.00	945000.00	727064.00	77%
CAY m1 (2019 – 2020)	1200000.00	1030000.00	756910.00	74%
CAYm2 (2018 – 2019)	1400000.00	1250000.00	989709.00	79%
CAYm3 (2017 – 2018)	1100000.00	938000.00	449776.20	48.0%



**10.4 Library and Internet****(20)****10.4.1 Quality of Learning Recourses (Hard/Soft)**

- Library Services : Yes
- Carpet area of library (in m<sup>2</sup>) : 1080
- Reading space (in m<sup>2</sup>) : 580
- Number of seats in Reading space : 220
- Number of users (issue book) per day : 159
- Number of users (reading space) per day : 241

**\* Timing and Usage:**

During Working Days : 9.00 A.M – 7.00 P.M

Weekend : 9.00 A.M – 1.00 P.M

Number of Library staff : 5

Number of Library staff with degree in library : 4

- Managements Computerization for search, indexing, issue/returns Bar coding used
- Commercial Campus i-lib Software (Version : 5.7.0) used for search and indexing of books
- Library services on internet / intranet INDEST or other similar membership.

**\* Eligibility for Borrower**

UG Students : 5 Books

PG Students : 6 Books

Research Scholars : 8 Books

Faculty members

Teaching : 10 Books

Non-Teaching : 3 Books

**\* Online Packages**

- Online journals and E-Books ( IEEE and J-Gate)
- Online Proceedings, Thesis, Audio and Video (J-Gate)
- Library Website – [www.necl.webnode.com](http://www.necl.webnode.com)
- Library Whatsapp – NEC Central library (Faculty members alone)



**\* Institutional Member**

- DELNET

**\* Archival**

- Back volumes : 4405
- Project report : 1157
- Question Bank (Digitalized) : 262

**\* Titles and volume per title**

Number of titles / Volumes : 19524/162108

**Table B.10.4.1a Scholarly Journal Subscription**

Year	Number of New Titles added	Number of New editions added	Number of New Volumes added
2021-22	261	27	553
2020-21	223	12	411
2019-20	1196	28	3240
2018-19	1396	32	3717
2017-18	1185	27	3428
2016-17	543	13	2549

**\* Scholarly Journal Subscription****Table B.10.4.1b Scholarly Journal Subscription**

No. of Technical		No. of Technical Journals subscribed		Scholarly Journal Titles (in originals, reprints)
Year	Magazines/ Periodical	In Hard Copy	In Soft Copy	
2021-22	68	198	3344	IEEE – ASPP, DELNET - Pro Quest Consortium



2020-21	-	-	3152	IEEE, J-Gate, ASPP, DELNET
2019-20	77	180	3344	IEEE, J-Gate, ASPP, DELNET
2018-19	80	235	3344	IEEE, J-Gate, ASPP, DELNET
2017-18	83	244	4075	IEEE, ASTM, J-Gate, DELNET – Pro Quest Consortium
2016-17	73	259	4051	IEEE, J-Gate, ASPP, DELNET-Pro Quest Consortium

### \* Digital Library

- Digital Library Services : Yes
- Availability of digital library contents

If available, then mention number of course: 375 (NPTEL) (CSE, EEE, ECE, MECH  
and CIVIL)

Number of e-books : 8820

Number of e- periodicals : 3344

Number of e- proceedings : 9202

Number of e- Thesis : 73101

Number of CD's, DVD's : 3882

Internet connectivity : 100 Mbps

MOOC Facility available : Yes (Swayam Prabha)

- Availability of an exclusive server : Yes
- Availability over Intranet/Internet Intranet : Yes
- Availability of exclusive space/room : Yes
- Number of users per day : 90/ day







**Figure B.10.4.1a Library – Journal and Magazines Store**



**Figure B.10.4.1b Library – Book stores**





Figure B.10.4.1c Digital Library



Figure B.10.4.1d Library – Reading Area

\* Library expenditure on books, magazines/Journals, and miscellaneous contents



Table 10.4.1c Library Expenditures

Year	Expenditure in Rs. (Lakhs)			
	Book	Magazines/Journals (for hard copy subscription)	Magazines/Journals (for Soft copy subscription)	Misc. Contents
2021-22	3.04	1.39	7.45	0.13
2020-21	2.29	-	7.27	0.13
2019-20	11.25	5.82	7.14	0.13
2018-19	11.62	6.32	6.13	0.70
2017-18	11.89	6.55	6.99	0.77
2016-17	9.66	5.57	6.68	0.76

## 10.4.2 Internet

(10)

- Name of the Internet provider: Ready link internet services-Fiber optic leased line 1:1
- Name of the Internet provider: Hyper band: Fiber optic leased line 1:1
- Available bandwidth: 500 Mbps
- Number of Computers available: 1024
- Wi-Fi availability: Available
- Internet access in labs, classrooms, library and offices of all departments are provided in detail in the following table.
- Security arrangements regarding CCTV arrangement and number of CCTV availability and monitoring details are provided in the following table CCTV camera section.

Table 10.4.2a Internet Details

S. No.	Item Name/Model	Item Description	Quantity
<b>Server</b>			
1	HP Blade Server	HP ProLiant DL580 G7, Intel Xeon E7520 (1.86GHz/4-core / 18MB / 95W/ 12MB(1 x 12MB) Level 3 Cache	1 No



		Memory : 32GB DIMMs PC3-10600R CIMMs (DDR3) in 2 memory boards	
		Storage Controller : Embedded HP smart array P410i/512 MB FBWC controller	
		Hard disk : HP (2x300GB) 6G SAS 10k rpm HP 1TB 6G SAS 7.2k rpm	
		Network Controller : HP NC375i integrated Quad Port Multifunction Gigabit server adapter	
		Power Supply : 2 HP 1200W common Slot Silver Hot Plug Power Supply Kit	
2	HP Blade Server	HP ProLiant DL380e G8, Intel Xeon E5-2420 (1.9GHz/6core/15MB/7.2GT-s QPI/95W/DDR3-1333, HT, Turbo2)	1 Nos
		Memory : 16 GB 2RX4 PC3L-10600R-9 Kit /2x	
		Storage Controller : HP smart array P420/1 GB FBWC controller/8SFF	
		Hard disk : HP (2x300GB) 6G SAS 10k rpm SFF (2-5 inch) HP 1TB 6G SAS 7.2k rpm SFF (2-5 inch)	
		Network Controller : HP Ethernet 1GB-4 port 366i	
		Power Supply : 2 HP 460W CS Gold Hot plug power supply/HP fu gen 8 management arm cable	
3	HP Blade Server	HP ProLiant DL380e G8, Intel@ Xeon E5-2403 v2 (1.8GHz/ 4core/10MB/6.4GT-s QPI/80W,DDR3-1333)	1 Nos
		Memory : 8 GB( 2X4GB) Registered DIMMs - PC3L-10600R (1333MHz) or 8Gb (1X8Gb) Registered DIMMs - PC3L – 12800R (1600MHz)	
		Storage Controller : HP smart array P420/1 GB FBWC controller	
		Hard disk : HP (2x450GB) 6G SAS 10k rpm SFF (2-5 inch)	
		Network Controller : HP Ethernet 1GB-4 port 366i Adapter	
		Power Supply : 2 HP 460W Common Slot Gold Hot plug power supply kit	



4	HP , HCL & LENOVA	Intel (R) Core(TM) i3-3220T CPU @ 2.80GHz 32-bit Operation System	1024 Nos
<b>Firewall</b>			
1	Checkpoint	Check Point 13500 next generation threat prevention appliances, security management predetermined system managing – 2 Gateway and 5-Blades, Check point smart event and smart reporter blades managing up to 2 gateway, check point mobile threat prevention per device, checkpoint collaborative enterprise for one year	1 Nos
<b>LAN and Wireless Facility</b>			
1	Sophos 50	Wireless	30 Nos
2	CISCO	Core switches, Distribution, Access switches and Accessories	52 Nos
<b>Internet Access</b>			
1	Bandwidth	Ready link internet services: Fiber optic leased line 1:1 Hyper band: Fiber optic leased line 1:1	500 Mbps
<b>CCTV Camera</b>			
1	IP camera	HIKIVision 2MP, DVR and accessories with 1 week data storage, Cb+	25 Nos

Table 10.4.2b Internet Access Provided Locations (LAN)

S.No	Department	Department Office	Laboratories	Class Rooms
<b>Academic Department</b>				
1	Agriculture Engineering	Faculty cabin (BV 101, BV 305)	-	Available
2	Biomedical Engineering	HOD cabin	-	Available
3	Civil Engineering	Dean Cabin, Staff room	Civil CADD lab	Available
4	Computer Science Engineering	HOD office, Staff room	CC2 lab	Available
			CC3 lab	
			CC5 lab	
			PG lab	
5	Chemical Engineering	HOD office	Chemical Analysis lab	Available



			Department Library	
6	Electrical and Electronics Engineering	Dean Office, Staff room(201, 304)	Computer centre XI	Available
			EST lab	
			SIP staff room (303)	
7	Electronics and Communication Engineering	Dean cabin (2Nos), Staff Cabin (6Nos), Dept Library (1Nos)	Simulation Lab	Available
			PG VLSI Lab	
			Project Lab	
8	Electronics and Instrumentation Engineering	HOD cabin (1Nos), Staff Cabin (2Nos)	-	Available
9	Information Technology	HOD cabin, Thulliam (company)	IT lab	Available
10	Mechanical Engineering	DEAN Office, HOD Office, Dept Office	UG CAD Lab	Available
			PG CAD lab	
11	MBA	HOD cabin, Faculty cabin (2Nos)	MBA lab	Available
12	MCA	HOD cabin, Faculty cabin	MCA lab	Available
13	Physics	Faculty Cabin (1Nos)	-	-
14	Chemistry	Faculty Cabin (2 Nos)	-	-
<b>Browsing Center</b>				
1	CC 2 Laboratory (24x7)			
2	Central Library			
<b>Admin/Support Department</b>				
1	Accounts Office			
2	Principal Office			
3	Chairman Office			
4	Secretary Office			
5	AO Office			
6	CIPD office			
7	Controller of Examinations			
8	Exam Cell			
9	Estate Office			



10	PED
11	HR
12	Placement
13	Boys Hostel Warden
14	Girls Hostel Warden
15	Automation Center
16	Transport Office
17	Board Room
<b>Internet Access Provided Location – Wireless Facility</b>	
1	All Academic Blocks (Block -1,2,3,4,5,6,7,8,9)
2	Boys Hostel
3	Girls Hostel
4	Central Library
5	Conference Hall
6	Principle Office
7	AO Office
8	Controller of Examinations
9	HR





# NANDHA ENGINEERING COLLEGE (Autonomous)

Affiliated to Anna University Chennai + Approved by AICTE + Accredited by NBA-NewDelhi  
Pitichandampalayam, (P.O), Valkkalmedu, Erode - Perundurai Road, Erode - 638 052  
Phone : 04294-225585, 223711, 223722, 226393 Mobile : 73737 23722 Fax : 04294 - 224787  
E.mail : info@nandhaengg.org

Website : www.nandhaengg.org

## DECLARATION

I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines in force as on date and the institute shall fully abide by them.

It is submitted that information provided in this Self-Assessment Report is factually correct. I understand and agree that an appropriate disciplinary action against the Institute will be initiated by the NBA in case any false statement/information is observed during pre-visit, visit, post visit and subsequent to grant of accreditation.

Date: 14.11.2022

Place: Erode -52



Signature & Name

Head of the Institution with seal

**Dr.N.Rengarajan, B.Sc., B.Tech., M.E., Ph.D.,  
PRINCIPAL  
NANDHA ENGINEERING COLLEGE,  
(Autonomous)  
ERODE - 638 052.**



## ANNEXURE I

**(A) PROGRAM OUTCOMES****Engineering graduates will be able to**

- 1. Engineering Knowledge:** Apply knowledge of mathematics, science and engineering to domain specific applications.
- 2. Problem Analysis:** Identify, analyze and formulate Electrical and Electronics Engineering problems based on the knowledge of basic sciences and engineering.
- 3. Design and Development of Solutions:** Design and develop Electrical and Electronic Engineering based solutions to meet the desired requirements.
- 4. Investigation of Complex Problems:** Investigate complex problems in the areas of power, control and energy to provide suitable solutions.
- 5. Modern Tool Usage:** Use the techniques, skills and modern engineering tools necessary for real world applications within realistic constraints.
- 6. The Engineer and Society:** Apply engineering solutions in societal and global contexts.
- 7. Environment and Sustainability:** Understand the impact of the solutions on the environment to ensure sustainability.
- 8. Ethics:** Understand the professional and ethical responsibility
- 9. Individual and Team Work:** Function as an individual and as a part of multidisciplinary team to accomplish a common goal
- 10. Communication:** Communicate effectively in both verbal and written forms
- 11. Project Management and Finance:** Use engineering and management principles, to manage projects and in multidisciplinary environments.
- 12. Lifelong Learning:** Recognize the need for and ability to engage in lifelong learning.

**(B) PROGRAMME SPECIFIC OUTCOMES(PSOs)**

- PSO 1:** Demonstrate knowledge and competence in the application of basic sciences, mathematics and fundamentals of electrical and electronics systems
- PSO 2:** Ability to explore complex engineering problems
- PSO 3:** Demonstrate the ability to communicate correctly, effectively work in a team and develop good personality
- PSO 4:** Apply appropriate techniques and modern engineering tools in core areas to engage in lifelong learning.