



NANDHA ENGINEERING COLLEGE (AUTONOMOUS)
ERODE - 638052

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

INTERNAL QUALITY ASSURANCE CELL

External Audit Report: 2023-2024

Audit date(s) : 06.12.2024, 07.12.2024, 09.12.2024 & 10.12.2024

23.12.2024

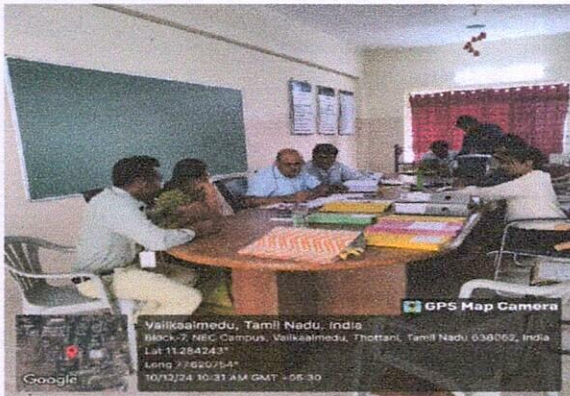
S.No	Observations by the auditors	Plan of Action	Target date	Responsibility
1.	Number of students discontinue their studies is higher. Counseling for EDC, GATE is missing in proctor MoM.	Plan to strengthen the proctoring system • Maintain minutes for the proctor hour in timetable • Record the MoM in detailed manner	20.01.2025	Dr M K Murthi
2.	List of Debar/Discontinue approval in BOS and AC is not available	Implement from forthcoming BoS/AC	20.01.2025	Dr R Murugesan
3.	Feedback on syllabus is not visible in the course end survey	Format for the course end survey to be revised	20.01.2025	Ms S Maheswari
4.	Internship / Consultancy report is not available	The existing report format does not contain sufficient details and needs to be revised to resemble a project report	30.01.2025	Dr E K Mohanraj & Ms S Maheswari
5.	Student should not be included in the course coordinator meeting, PAC & DAB.	The composition will be revised for the upcoming meetings.	20.01.2025	Dr R Murugesan & Mr T Venkateshan
6.	Slow learner/Middle/Advanced learners identification criteria needs clarity	The policy will be revised. Slow based on the results of a unit test.	20.01.2025	Dr E K Mohanraj & Ms S Maheswari
7.	Reason for deviation in proposed hour and actual hour is missing in the course plan format	The revised format, incorporating the reasons for deviation in the course plan, will be implemented starting from the 2024-2025 even semester.	20.01.2025	Ms S Maheswari

8.	Innovation in teaching – May include AI tools for assessment	Quizzes, Kahoot, Mentimeter, can be used for conducting the MCQ type of assessment	20.01.2025	Dr E K Mohanraj
9.	Impact analysis for all the initiatives is not available	Formats to be prepared	20.01.2025	Respective Portfolio Heads & Ms S Maheswari
10.	Policy for seed money	Policy to be framed	20.01.2025	Dr C N Marimuthu Dr K Lalitha
11.	More number of alumni may be involved in conducting Mock interviews /support for placement /intern, etc	Alumni resource will be utilized effectively.	Continuous	Dr S Kavitha
12.	Establishment of Curriculum development cell (CDC)	Will be established	20.01.2025	Dr R Murugesan
13.	Rubrics for projects	Rubrics will be prepared for all project reviews to ensure the quality of the projects and will be implemented starting from the 2024-2025 even semester.	15.02.2025	Ms V Logeswari
14.	Industry supported courses in curriculum	Recommendations will be put forth in the forthcoming BoS/AC and will be implemented based on the board's decisions.	30.06.2025	Dr R Murugesan
15.	Mini projects in curriculum		30.06.2025	Dr R Murugesan
16.	PBL to be strengthened	One course from each semester, from the 3 rd to the 6 th semester, will be commonly fixed as a PBL course in the curriculum. It should be ensured that projects under this course are at higher TRL levels.	20.02.2025	All HoDs
17.	Relative grading for NPTEL	The grades released by NPTEL are currently used as they are awarded. The recommendations have been put forth in the Academic Council.	20.02.2025	Dr E K Mohanraj
18.	Publication needs improvement	Only 99 publications are in the academic year 2023 – 2024. In order to increase the number of research publications, Center for interdisciplinary research (CFIR) has been established for further improvements.	30.06.2025	Dr C N Marimuthu & Dr K Lalitha

List of auditors engaged in the audit process

S.No	Auditors details	Date visited
1	Dr.B.Venkatesan, Assistant Professor (S.G)/EIE Kongu Engineering College Erode	06.12.2024
2	Dr.V.Srinivasan Professor/EIE Sri Ramakrishna Engineering College Coimbatore	07.12.2024
3	Dr.P.Premkumar Professor/EEE KSR College of Technology Tiruchengode	07.12.2024
4	Dr.K.Thangaraj, Associate Professor/Information Technology Sona College of Technology, Salem	09.12.2024
5	Dr.P.Suresh, Professor/ Mechatronics Sona College of Technology Salem	10.12.2024
6	Dr.S.Lokesh Professor/ CSE PSG Institute of Technology and Applied Research Coimbatore	10.12.2024

Snapshots of audit process



S. Mahalingam
23/12/24
HEAD/IQAC

K. Raju
26/12/24
PRINCIPAL

NANDHA ENGINEERING COLLEGE, Erode-638 052**Academic and Administrative Audit****Department of Computer Science and Engineering**

Period for Considering audit Process: 2023-2024

I: PROFILE OF THE DEPARTMENT

1. Date of visit : 9/12/2024
2. Name of the Department : Computer Science and Engineering
3. Members of the audit :

	External	Internal	IQAC Coordinator
Name, Designation & College	Dr. K. Thangaraj, AsP/IT, Sona College of Technology, Salem	Ms.S.Maheswari, AP / CSE(IOT)	Ms.P.Kokila AP/ ECE.

4. Year of establishment(Approval Copy) : 2001
5. Programmes offered :
UG: Computer Science and Engineering
PG: Computer Science and Engineering
6. Number of students :

S.No.	Year	No. of students	No. of girls	No. of boys
1	I YEAR	175	65	110
2	II YEAR	115+13	45	83
3	III YEAR	120+12	30	102
4	IV YEAR	118+10	40	88
5	I PG	3	2	1
6	II PG	6	4	2
TOTAL		572	227	345

7. Number of faculty(comply with 1:20 ratio)

No. of Professors		No. of AsP		No. of AP		Total		Total no. of students (sanctioned intake + Actual lateral admitted)	Total no. of students in PG	SFR
Male	Female	Male	Female	Male	Female	Male	Female			
3	2	2	-	3	14	8	16	180+18	6	16.6

Faculty Details (2023- 2024)

S.NO	Name	PAN No.	Qualification	Area of Specialization	Designation	Date of Joining	Date on which designated as Professor/Associate Professor	Currently Associated(Y/N)	Nature of Association(Regular/Contract/Adjunct)	If Contractual mention full time or part time	Date of Leaving(In case currently associated is "NO")
1	Dr.Arumugam S	ACUPA5304K	M.E.,Ph.D	Signal Processing	Professor	27.06.2013	27.06.2013	y	Regular		
2	Dr.S.Prabhadevi	AMTPP7611B	M.E.,Ph.D	Sensor Networks	Professor	20.08.2001	24.10.2019	y	Regular		
3	Dr.R.Sivarej	BNZPS1130C	M.E.,Ph.D	Data Warehousing, Optimization Techniques	Professor	11.07.2018	11.07.2018	y	Regular		
4	Dr.D.Vanathi	AGFFV2502F	M.E.,Ph.D	Privacy Preservation	Professor	05.01.2009	24.12.2018	y	Regular		
5	Dr.P.Sukumar	BJYPS2076Q	M.E.,Ph.D	Image and Signal Processing, Artificial Intelligence	Professor	20.07.2009	30.12.2016	y	Regular		
6	Dr.S.K.Mahalingam	AOSPM1082L	M.E.,Ph.D	Cloud Security	Professor	01.06.2019	09.05.2023	y	Regular		
7	Dr.P.Thirumoorthy	ADRP19258R	M.E.,Ph.D	Sensor Networks, Internet of Things	Associate Professor	02.12.2013	02.12.2013	y	Regular		
8	Dr.S.Karuppusamy	RDCPK8918D	M.E.,Ph.D	Software Engineering	Associate Professor	09.01.2009	30.12.2016	y	Regular		
9	Mrs.E.Padma	BFNPP4146P	M.Tech.,	Networks	Assistant Professor	02.06.2008		y	Regular		
10	Mrs.S.Kavitha	CQEPK0378P	M.E.	Data Mining	Assistant Professor	14.06.2012		y	Regular		
11	Mrs.P.Uma	ABLP1U7347Q	M.E.	Data Mining	Assistant Professor	27.06.2013		y	Regular		
12	Mrs.K.Shanmugapriya	DMJPS9528F	M.E.	Machine Learning Techniques	Assistant Professor	15.07.2013		y	Regular		
13	Mrs.B.Deepa	APJPD2462F	M.E.	Machine Learning Techniques	Assistant Professor	01.06.2013		y	Regular		
14	Mr.C.Mani	ARRPM6204E	M.E.	Data Mining	Assistant Professor	01.07.2015		y	Regular		
15	Mrs.C.Navamani	AQVPN8202G	M.E.	Data Mining and Data Warehousing	Assistant Professor	24.06.2007		y	Regular		
16	Mr.S.Jagadeesan	ARCPJ0039M	M.E.	Mobile Computing	Assistant Professor	13.09.2007		y	Regular		
17	Mrs.K.E.Eswari	AAJPE6144J	M.E.	Data Analytics	Assistant Professor	30.08.2023		y	Regular		
18	Mrs.M.Deepika	EULPD9227B	M.E.	Cloud Computing	Assistant Professor	10.02.2021		N	Regular		03.11.2023
19	Mrs.N.M.Indumathi	ACBPI0854M	M.E.	Data Structures and Algorithms	Assistant Professor	07.07.2021		y	Regular		
20	Mrs.D.Vinoparkavi	ATLPV6401E	M.E.	Cloud Computing	Assistant Professor	11.08.2021		y	Regular		

14	Mrs. K.E.Eswari	AAJPE6144J	M.E.	Data Analytics	Assistant Professor	30.08.2023	y	Regular
15	Mrs. N.M.Indumathi	ACBPI0854M	M.E	Data Structures and Algorithms	Assistant Professor	07.07.2021	y	Regular
16	Ms. D. Vinoparkavi	ATLPV8401E	M.E	Cloud Computing	Assistant Professor	11.08.2021	y	Regular
17	Mrs. P. Devika	CCEPD6980Q	M.E	Mobile Computing	Assistant Professor	22.12.2021	y	Regular
18	Mrs. S. Geetha	AZRPG5368H	M.E	Machine Learning Techniques	Assistant Professor	11.07.2022	y	Regular
19	Mrs. P. Savitha	EEIPS7999J	M.E	Machine Learning Techniques	Assistant Professor	18.07.2022	y	Regular
20	Mr. A. Sathesh Kumar	BPBPS9657C	M.E.	Machine Learning Techniques	Assistant Professor	07.07.2023	y	Regular
21	Mr. D. Kavinkumar	BVUPK2453B	M.E.	Machine Learning Techniques	Assistant Professor	23.05.2023	y	Regular
22	Mrs. J. Radha	BCJPR3791L	M.E.	Data Structures and Algorithms	Assistant Professor	28.08.2023	y	Regular
23	Mr. Manikandan R	GRDPR5341M	ME	Artificial Intelligence	Assistant Professor	25.06.2024	y	Regular
24	Ms. Bhuvaneshwari N	PLFPD2216N	ME	Machine Learning Techniques	Assistant Professor	05.06.2024	y	Regular
25	Ms. Deepa M	PLFPD2216N	ME	Cloud Computing	Assistant Professor	02.08.2024	y	Regular
26	Mr Naveenkanth A	CADPN9370D	ME	Machine Learning Techniques	Assistant Professor	26.08.2024	y	Regular

8. Number of non teaching staff

S.No.	Name of the Technical staff	Designation	Qualification
1.	Gunasekaran R ✓	System Administrator	ADCA
2.	Kamali R ✓	Lab Technician	B.Sc.(CS)
3.	Divya M ✓	Lab Technician	B.Com. (CA)
4.	Monika M ✓	Lab Technician	B.Com
5.	Srimathi K ✓	Lab Technician	B.Com. (CA)

9. Number of Visiting faculty

S.No.	Name of the Faculty	Organization	Subject to be Handled
1.	Mr. S. Santhoshkumar	Incluzon, Mumbai, India	17ITX37 – Problem Solving Using Java ✓

II. CURRICULAR ASPECTS

1. Number of courses having focus on employability/ entrepreneurship/ skill development :

Course related to	Course Code & Title			
	S.No	Year & Semester(for 2023-24)	Details of courses approved in BoS	Course Code
Employability ✓	1	III & V	Full Stack Development	22CSC15
	2	III & V	Object Oriented Software Engineering	22CSC16
	3	III & V	Full Stack Development Laboratory	22CSP09
	4	III & V	Object Oriented Software Engineering Laboratory	22CSP10
	5	III & VI	Internet of Things and its Applications	22CSC17
	6	III & VI	Mobile Application Development	22CSC18
	7	III & VI	Internet of Things and its Applications Laboratory	22CSP11
	8	III & VI	Mobile Application Development Laboratory	22CSP12

	9	IV & VII	Internship /Industrial Training	22GED02
	10	IV & VIII	Project Work	22CSD01
	11	PSE	Agile Methodologies	22CSX51
	12	PSE	Software Project Management	22CSX53
	13	PSE	Software Testing Tools and Techniques	22CSX54
	14	PSE	Software Quality Assurance	22CSX55
	15	PSE	Service Oriented Architecture	22CSX56
	16	PSE	IT Operations	22CSX57
	17	PSE	Product Life Cycle Management	22CSX58
Entrepreneurship /	S.No	Year & Semester(for 2023-24)	Details of courses approved in BoS	Course Code
	1	III & V	Full Stack Development	22CSC15
	2	III & V	Full Stack Development Laboratory	22CSP09
	3	III & VI	Mobile Application Development	22CSC18
	4	III & VI	Internet of Things and its Applications Laboratory	22CSP11
	5	III & VI	Mobile Application Development Laboratory	22CSP12
	6	IV & VII	Internship /Industrial Training	22GED02
	7	IV & VIII	Project Work	22CSD01
Skill development /	S.No	Year & Semester(for 2023-24)	Details of courses approved in BoS	Course Code
	1	III & V	Principles of Compiler Design	22CSC14
	2	III & V	Full Stack Development	22CSC15
	3	III & V	Full Stack Development Laboratory	22CSP09
	4	III & VI	Internet of Things and its Applications	22CSC17
5	III & VI	Mobile Application Development	22CSC18	

	6	III & VI	Internet of Things and its Applications Laboratory	22CSP11
	7	III & VI	Mobile Application Development Laboratory	22CSP12
	8	IV & VII	Internship /Industrial Training	22GED02
	9	IV & VIII	Project Work	22CSD01
	10	PSE	Software Defined Networks	22CSX52
	11	PSE	Software Project Management	22CSX53
	12	PSE	Software Testing Tools and Techniques	22CSX54
	13	PSE	IT Operations	22CSX57
	14	PSE	Product Life Cycle Management	22CSX58

2. Number of new courses introduced :

Course related to	Course Code & Title
Innovation	—
New courses	22CSX01, 22CSX02, 22CSX04, 22CSX07, 22CSX08, 22CSX05.
Honors/Minors	R22 - Regulation

3. Details of value added courses/one credit imparting transferable and life skills

S.No	Course Code	Name of the VAC (More than 30Hrs)	Year	No. of Students enrolled	No. of Students Completed	Remarks
1.	22CSI01	Ethical Hacking	II/ III	128	128 ✓	
2	22CSI02	MongoDB (15 Hrs)	II/ IV	128	128 ✓	

4. No.of students undertaking project work/field work/ internships /Industrial Project

S.No	Project work / Field work / Internship	No. of Students	Comments / Observations
1	II YEAR	-	
2	III YEAR	16 ✓	
3	IV YEAR	13 ✓	

5. Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from

S.No	Feedback from	Comments	Based on comments (if any syllabus revision carried out)
1	Students	More Practical Trainings for Programming course Extra Support needed for improving the communication skill	Yes <i>R22 - included</i> <i>R22 - included</i>
2	Teachers	Online Portal can be introduced to enhance the skill-set in students	Yes ✓
3	Employers	Industry based projects work may introduced to students	<ul style="list-style-type: none"> • Real -time Problems are identified by the students and prototype developed ✓ • Hackathons are conducted (SIH - 1 shortlisted). ✓
4	Alumni	Industry- Institute Interaction may be strengthened	<ul style="list-style-type: none"> • More Internships ✓ • Hands - on activities for courses like FSD, Deep Learning, Digital Marketing, etc.
5	Parents	Nil ✓	

6. No. of students enrolled in Certificate online MOOC programs like SWAYAM, NPTEL etc. as against the total number of students during the last year

Type of the programme (Certificate/ Addon / SWAYAM-NPTEL)	Name of the Course like Infosys spring/ NPTEL	No. of Students Enrolled	No. of Students cleared	Remarks
II YEAR ✓	Problem Solving through Programming in C	9	9	
	Introduction to Machine Learning	1	1	
	Introduction to Algorithm and Analysis	1	1	
	Cloud Computing	4	4	

	Deep Learning	4	4	
IV YEAR ✓	DevOps Foundation Certification	9	9	
	Cyber Security Fundamentals Certification	12	12	
	Data Science Foundation Certification	38	38	
	Artificial Intelligence Primer	4	4	
	Cyber Security Professional	1	1	
	Agile Kanban	1	1	

7. Implementation of remedial measures for slow learners and special activities for advanced learners

Slow learners	—
Advanced learners	Can include one HOT level in the regular lab also. Can include one HOT level in the regular lab class

8. Innovation in teaching :

S.No.	Course Code & Name of the Course	Course Handling Faculty	Name/Type of the activity	Remarks
1.	22CSC02 - Data Structure Using C	MS. B. Deepa MS. P. Shobana MS. J. Radha	Gamified Learning	
2.	17CSC06 - Theory of Computation	Mr. A. Sathesh Kumar	Interactive Learning	
3.	17CSC18 - Full Stack development	MS. C. Navamani MS. M. Deepika	Collaborative Learning	
4.	22CSC09 - Artificial Intelligence & Machine Learning	MS. B. Deepa MS. S. Geetha	Micro-projects based Learning	

9. Mentoring system :

Number of students	Number of Faculty Mentor	Report on student mentoring and evidences	Remarks
572 572	24 24	22 CS 050 G. MAHANA PROSEPTA	

10. Number of full time teachers with Ph.D. degree and Guidance:

S.No.	Number of faculty with Ph.D.	No. of supervisor	No. of faculty pursuing Ph.D.
1.	5 + 3	2 + 1	8

11.a. Results (2023-2024 EVEN SEMESTER)

Year	Total number of students	Appeared for Examination	All clear students with no history of arrears	Total no. of all clear students	Number of students having arrear in current semester	Previous arrears
II YEAR	128 ✓	128 ✓	81	103 ✓	25	21
III YEAR	132	132	84	120	12	18
IV YEAR	128	128	90	125	-	3

12.a .Attainment of the 2024 batch and action taken thereof

POS	1	2	3	4	5	6	7	8	9
Target	2.44	2.24	2.20	2.11	2.17	1.83	1.99	1.91	2.20
Attainment %	81.38	74.82	73.33	70.33	72.46	61.10	66.17	63.76	73.29
POS	10	11	12	PSO1	PSO2	PSO3	PSO4		
Target	2.09	2.17	2.44	2.39	2.33	2.21	2.21		
Attainment %	69.63	72.31	81.42	79.63	77.55	73.64	73.64		

12.b. Action taken report for the not attained POs and PSOs :

Yes/ No

If Yes, kindly enter the details

Number/ Name of the PO/ PSO	Action Taken	Remarks
PO4 - Conduct investigations of complex Problems	Field study project initiated to identify solutions to problem in their surroundings.	✓ ✓
PO6: The engineer and society	Campus study projects introduced, Scenario based and case studies questions are given as assignment. Internship is encouraged to provide hand-on experience in real- world problems.	✓ ✓
PO7: Environment and sustainability	Outdoor learning allowing to experience hands-on, real-world education.	✓ ✓
PO8: Ethics	Workshops and seminars are conducted to create Ethical Awareness and integrity.	✓ ✓
PO10: Communication	Encourage participation in Smart India Hackathon and project Presentation	✓ ✓

III RESEARCH AND DEVELOPMENT

1. Seed money provided by the institution

S.No.	Number of Faculty received seed money	Total Amount of seed money	Name of the Project
1.	P. SOKUMAR	5000	Impurity Monitoring using IET

12-16
94000/-

2. Details of teachers awarded National/International fellowship for advanced studies/ research during the year

S.No.	Name of the teacher awarded national/ international fellowship/ financial support	Name of the Award/Fellowship	Month and Year of Award	Awarding Agency
1	Dr. D. VANATHI	IET Best Engineer	10/23	IET

3. Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

S.No	Name of the PI/COPI	Type (Government / Non-Government)	Agency provided support	Amount	Period of the Project
1	Dr. P. Thirumangalakudi	Non-Govt	ISI	5000	One day Seminar Grant. 28/10/23.

4. Number of teachers having research projects during the year

Name of the Principal Investigator/ Co-Investigator (if applicable)	Name of the Funding Agency	Type (Government / Non-Government)	Funds provided (INR in lakhs)	Month and Year of receiving the grant	Duration of the Project

5. Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

S.No.	Name of the workshop/seminar	Date From-To	Activity (IPR/ Industry –Academia Innovative practices)	Remarks
1.	Intellectual Property Rights (IPR) & Patent, Designs filing	27/05/2024	IPR	Signature in Report is missing.
2.	Data Engineering for Revolutionizing Entrepreneurs	20/05/2024	Industry –Academia Innovative practices	
3.	UiPATH - Robotics Automation Process	27/05/2024 - 31/05/2024	Industry –Academia Innovative practices	
4.	Software Development - iGen	04/12/2023	Industry –Academia Innovative practices	
5.	Opportunities in CRPF Services	08/09/2023	Skill Development	
6.	Cloud Computing and its implementation	06/02/2024	Skill Development	
7.	Insights of machine Learning and Data Science	16/02/2024	Skill Development	

6. Details of research papers published by teachers in the Journals notified on Scopus/WoS/SCI

FACULTY JOURNAL PUBLICATION FOR JUNE 2023 - JUNE 2024

S.NO.	STAFF NAME	PAPER TITLE	NAME OF THE ARTICLE	TYPE	PERIOD	INDEXED	Link
1	Narayanan, S.D., Prabhu, S., Padma, E.	Improving QR Code Security using Multiple Encryption Layers	2024 International Conference on Cognitive Robotics and Intelligent Systems, ICC - ROBINS 2024	International Conference	IEEE Xplore: 19 April 2024 ISBN: 979-835037274-8 DOI: 10.1109/ICC-ROBINS60238.2024.10533884 Electronic ISBN:979-8-3503-7274-8 DVD ISBN:979-8-3503-7273-1 Print on Demand(PoD) ISBN:979-8-3503-7275-5	Scopus	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85195123050&doi=10.1109%2fICCROBINS60238.2024.10533884&partnerID=40&md5=a5795c7393726826b639b3b661696388
2	K. Kannan, S. Kavitha, Rajinikanth. E, G. Sowmiya, Dinesh Mavaluru	Measurements and Monitoring of Network Performance for Routing Protocols in Wireless Sensor Networks	2023 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICES)	International Conference	IEEE Xplore: 19 March 2024 DOI: 10.1109/ICES60034.2023.10465546 ISBN Information: 3.10465546 Electronic ISBN:979-8-3503-1920-0 Print on Demand(PoD) ISBN:979-8-3503-1921-7	Scopus	https://www.scopus.com/record/display.uri?eid=2-s2.0-85190554581&doi=10.1109%2fICES60034.2023.10465546&origin=inward&txGid=e892bfe45b416503549e16cd3241a3f
3	Deepa, B. Marimuthu, C.N. Geetha, S. Maheswari, S.	Advances in Medical Image Processing for Liver Tumour Recognition: A Comprehensive Survey	2024 2nd International Conference on Computer, Communication and Control, IC4 2024, 2024	International Conference	IEEE Xplore: 10 Feb 2024, IEEE ISBN: 979-835038793-3 DOI: 10.1109/IC457434.2024.10486221 ISBN Information: 10486221 Electronic ISBN:979-8-3503-8793-3 Print on Demand(PoD) ISBN:979-8-3503-8794-0	Scopus	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85190548777&doi=10.1109%2fIC457434.2024.10486221&partnerID=40&md5=e64127b93cdb655bbe9ce06d8c0657f8

4	Geetha, S. Marimuthu, C.N. Maheswari, S. Deepa, B	A Comprehensive Analysis of Identifying Patients with Chronic Kidney Disease	2024 2nd International Conference on Computer, Communication and Control, IC4 2024, 2024	International Conference	IEEE Xplore: 10 Feb 2024 IEEE ISBN: 979-835038793-3 DOI: 10.1109/IC457434.2024. 10486247 ISBN Information: Electronic ISBN:979-8-3503-8793-3 Print on Demand(PoD) ISBN:979-8-3503-8794-0	Scopus	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85190545358&doi=10.1109%2fIC457434.2024.10486247&partnerID=40&md5=c872bb43437e51bf47956874b1af0f53
5	Suresh K; J Radha; Thilagaraj T; Subramani R; Prasanna Kumar Lakineni; Syed Noeman	Leveraging Model Distillation as a Defense Against Adversarial Attacks Based on Deep Learning	International Conference on Communication, Security and Artificial Intelligence (ICCSAI)- IEEE	International Conference	IEEE Xplore: 16 February 2024 DOI:10.1109/ICCSAI5 9793.2023.10421670 ISBN:979-8-3503-6996-0 ISBN Information: Electronic ISBN:979-8-3503-6996-0 Print on Demand(PoD) ISBN:979-8-3503-6997-7	Scopus	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85186657477&doi=10.1109%2fICCSAI59793.2023.10421670&partnerID=40&md5=3351519ea3a7a01e55974e76f192607d
6	Thiruvenka tasamy,S, Sivaraj R, Vijayakumar, M	Blockchain Assisted Fireworks Optimization with Machine Learning based Intrusion Detection System (IDS)	Technical Gazette	Technical Gazette	29.2.2024, Volume No : 31, Issue No.2, pp. 596-603 https://doi.org/10.17559/TV-20230712000798 ISSN 1330-3651 (Print), ISSN 1848-6339 (Online)	SCI & Scopus	https://hrcak.srce.hr/314852
7	Gopu A. Palanisamy Sivaraj Rajappan, Vijayakuma r Murugasamy	Enhancing Secure Data Transmission in IoT via Advanced Conditional Generative Adversarial Network and Encryption Techniques	Traitement du Signal	Journal	https://doi.org/10.18280/ts.410134 Vol. 41, Issue No. 1, 29 February, 2024, pp. 401-410 ISSN: 0765-0019	SCI & Scopus	https://acrobat.adobe.com/id/urn:aaid:sc:AP:38d53ad0-387b-47c7-97b9-b04e3e3a9ea2

8	R.Thamarai Selvi; E. Padma	Offering Services in Mobile Edge-Cloud Networks That are Both Mobility-Aware and Delay-Sensitive	2023 International Conference on Recent Advances in Science and Engineering Technology (ICRASET), 23-24 Nov.2023	International Conference	February, 2024 DOI:10.1109/ICRASET59632.2023.10419970 ISBN:979-8-3503-0692-7	Scopus	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85186074446&doi=10.1109%2fICRASET59632.2023.10419970&partnerID=40&md5=f16b2dd266d9698eaf38ceb95264ad8
9	D. Kavin Kumar; S. Kavitha	Secondary Prevention of Acute Coronary Syndrome Using Data Science Analysis and Profile Representation	2023 International Conference on Recent Advances in Science and Engineering Technology (ICRASET), 23-24 Nov. 2023	International Conference	February, 2024 DOI:10.1109/ICRASET59632.2023.10420312 ISBN:979-8-3503-0692-7	Scopus	https://www.scopus.com/record/display.uri?eid=2-s2.0-85186110708&doi=10.1109%2fICRASET59632.2023.10420312&origin=inward&txGid=718630956d13afaca26752b3f8e47289
10	Gomathy, B., Sengottaiyan, N., Aarthi, K., Thirumoorthy, P. , Tamizharasu, K., Kalyanasundaram, P.	Performance Comparison of Object Detection Neural Network Models Based on Accuracy and Latency	2nd International Conference on Intelligent Data Communication Technologies and Internet of Things, IDCIoT 2024	International Conference	IEEE Xplore: 22 March 2024 ISBN: 979-835032753-3 DOI: 10.1109/IDCIoT59759.2024.10467336 ISBN Information: Electronic ISBN:979-8-3503-2753-3 Print on Demand(PoD) ISBN:979-8-3503-2754-0	Scopus	https://www.scopus.com/record/display.uri?eid=2-s2.0-85190090092&doi=10.1109%2fIDCIoT59759.2024.10467336&origin=inward&txGid=10925bf83d5a8910ffed154276586

11	Sarathkumar D; Srinivasan Murugesan; P Sukumar ; Raymon Antony Raj; Sampath Kumar Venkatachary; Leo John Baptist Andrews; Dishore	Impurity Monitoring Using IOT	2023 International Conference on Energy, Materials and Communicati on Engineering (ICEMCE)	International Conference	IEEE Xplore: 21 February 2024 DOI: 10.1109/ICEMC E57940.2023.10 434065, ISBN Information: Electronic ISBN:979-8- 3503-9337-8 Print on Demand(PoD) ISBN:979-8-3503- 9338-5	Scopus	10.1109/ICEMCE5794 0.2023.10434065 https://ieeexplore.ieee.org/document/10434065
12	Dinesh Rajassekharan; V Ramachandran; Dilip Kumar Sharma; Thirumoorthy Palanisamy ; Y. Varatharaj Myilsam; Ramesh Chandra Poonia	An Efficient Wireless Sensor Network based Intrusion Detection System	2023 International Conference on Communication, Security and Artificial Intelligence, ICCSAI 2023	International Conference	IEEE Xplore: 16 FEB 2024 10.1109/ICCSAI59793. 2023.10421537 ISBN Information: Electronic ISBN:979-8- 3503-6996-0 Print on Demand(PoD) ISBN:979-8-3503- 6997-7	Scopus	https://ieeexplore.ieee.org/document/10421537
13	Maheeswari, S., Marimuthu, C.N. , Deepa, B. , Geetha, S.	An Effective Cervical Cancer Detection Approache s - A Comparati ve Analysis	Proceedings of the 2023 6th International Conference on Recent Trends in Advance Computing, ICRTAC 2023	International Conference	December 2023, IEEE ISBN: 979-835039470- 2 DOI: 10.1109/ICRTAC59277 .2023.10480800	Scopus	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85190707003&doi=10.1109%2fICRTAC59277.2023.10480800&partnerID=40&md5=a50188deec9b93e1a4db4_392c1479ed4

7. Details of books and chapters in edited volumes/books published and papers in national/ international conference

S.NO.	STAFF NAME	PAPER TITLE	NAME OF THE ARTICLE	TYPE	PERIOD	INDEXED	Link
1	Dr Sneha Arjun Khair, Dr Harshad N Prajapati, Dr P Sukumar, Dr Rashmi Shekhar	Machine Learning with IoT	Machine Learning with IoT -RK Publications - RLK Enterprises	Book	Filpkar Link - https://www.flipkart.com/product/p/itme?pid=9788197398391 Website Link - https://sales.rkenterprises.com/product/machine-learning-with-iot/ DOI: https://doi.org/10.5281/zenodo.11350748 ISBN: 978-81-973983-9-1	Nil	https://isbn.gov.in/Home/SearchIsbnNew
2	Dr Devi PP Dr D Vanathi Dr R Joshitta Dr Jenifer Jothi Mary.A	Foundations of Data Science	2023-24	ISBN: 978-93- 5577- 722-5	Charulatha Publications	January 2024	<u>Book</u>
3	Ms.K.E.Eswari	Python for Data Science- True Publisher	Python for Data Science - True Publisher	Book	True Publisher ISBN: 9789395030854	Nil	Book

8. Revenue generated from consultancy and corporate training during the year

S.No	Name of the faculty	Project Title	Funding Agency	Amount
1	N.M.Indumathi	E-Kart Mobile Hub	G.K Mobiles, Sathymangalam.	10000
2	E.Padma	Home Fit Furniture Management System	GVK Furniture, Thanjavur.	10000
3	B.Deepa	Online Drivers Cab Reservation	Drivers cab, Erode.	10000
4	K.Shanmugapriya	Construction Management System	Ranza Construncions, Gobi.	10000
5	P.Uma	Photo Customer Relationship Management System	Maruthi Studio, Thoothukudi.	10000
6	P.Savitha	Online appointment Booking System for Hospital	P.K.Dental Care Hospital, Kavindapadi.	10000
7	A.SatheeshKumar	Payment Processing system	Lavanya Agency, Erode.	10000
8	P.Uma	Boutique Shop Management System	Pooja Designer,Uthukuli.	10000
9	K.ShanmugaPriya	Online shopping Cart	AD Fashion, Tirupur.	10000
10	B.Deepa	Energizing Retail efficiency for Shop Management	GK Electricals, Erode	10000
11	P.Devika	Advanced Employee Payroll System	Sivakami Estate, Kotagiri	10000
12	C.Navamani	Dream Hall Reservation	Sri Vaigai Event Planners, Kangeyam.	10000

13	E.Padma	Tile & Tap Haven	Ambika Enterprises, Erode	10000
14	D.Vinoparkavi	Book - a Smile :Revolutionizing Dental Clinic Visits.	Shree Krishna Dental clininc, Perundurai.	10000
15	V.Mythily	Fintrack Billing System using Web Development	Vasantham Telelinks, Kangeyam.	10000
16	P.Devika	Maruthi Electro Cart	Maruthi Electricals, Erode.	10000
17	D.Vinoparkavi	Glow Getter - Appoinment Scheduler	Modern Hair Saloon, Tiruppur	10000
18	C.Navamani	Cuisine Connect	Thindal Punjabi, Erode.	10000
19	S.Kavitha	ShopTrack Plus Elevating Billing Standards	New Archana Store, Erode.	10000
20	S.Jagadeesan	Smart Store Solutions.	Nellai Grocery	10000
21	Dr.P.Sukumar	Expert inventory with POS	Palliyuthu Pakkuvam Stores.	10000
22	Dr.S.Karupusamy	Photography website using cloud computing	Arrshan Photography	10000
23	K.E.Eswari	Online Textile Automation System.	N.S.K Garments, Tiruppur	5000
24	Dr.P.Sukumar	Installation support for Remote monitoring Home automation and security system.	Mrs.Prema, No.29, Old Railway Station Road, Erode	15000
25	Dr.S.Karupusamy	Installation support for effective monitoring smart home and security system	Mr.R.Ponnusamy, No. 02, Srinivasa Street, Erode.	10000

26	Ms.K.E.Eswari Mr.C.Mani	Hospital Management System	Divya Herbal Care, Kolathur, Mettur Taluk, Salem.	30000
Total:				Rs.280000

9. Total number of Citations in Scopus during the year : 1373

10. h-index of Scopus during the year : 22

11. Details of the extension activities undertaken by the department in sensitizing students to social issues and holistic development

S.No	Name of the Program	Collaborating Agency	Number of Participated Students	Remarks
	—	—	—	Have atleast one or two programs every semester.

12. Total number of awards and recognition received for extension activities from Government / recognized bodies

S.No	Name of the activity	Name of the Award/ recognition	Name of the Awarding government / recognized bodies	Name of the Faculty	Remarks
1.	Prof. Body	Best Engineers	IBI	Dr. D. Vanathi	

13. Total number of Students participating in extension activities with Government Organization, Non-Government Organizations and Programmes such as NSS/NCC/Red Cross/YRC, etc. during the year (Swachh Bharat, AIDs awareness, Gender issue etc.)

S.No	Name of the activity	Organizing unit/agency/Collaborating agency	Name of the scheme	Number of students Participated in such activities	Remarks
1	Symposium	Dept. Orachadys	-	112	-

14. Details of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc.

S.No	Title of the linkage	Name of the partnering institution/industry /research lab with contact details	Duration (From-To)	Nature of linkage	Remarks
1.	Internship - DR Research	INDUS Novators Pvt Ltd, CBE	2/1/24 to 2/2/24	Internship.	

15. Details of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc.

S. No	Organization with which MoU is signed	Name of the institution/industry/corporate house	Duration	List the actual activities under each MoU	Number of students/teacher participated under MoUs	Remarks
1.	CRPP	Brazei, Chemi	8/5/23	Seminars	132	

16. Patents/copyrights/Industrial Designs

Total number of patents	4
Published	1
Granted	3
Utility Patent	1

IV. INFRASTRUCTURE

17. Details of departmental infrastructural & other facilities:

- a) Departmental Library (books, journals etc.): 420
- b) Computers and Internet bandwidth facilities: CC2 & CC3 and 1Gbps
- c) Student computer ratio : 1:4
- d) Total number of classrooms: 07
- e) Classrooms with ICT facility: 07

Classroom No.	Size
Block – III/ 301	33 X 26 ft.
Block – III/ 302	
Block – III/ 303	
Block – III/ 106	
Block – III/ 115	
Block – III/ 004	
Block – III/ 015	
Block – III/ 015	

f) Students laboratory:

Laboratory Name	Size
CC2	66 *26 ft.
CC3	66 *26 ft.

g) CoE / Research laboratories:

S.No.	Name of lab	Utilization	Activity/ Outcome
1.	CC5 Lab. Nil	Research Projects .	SIH, Publications.

h) Smart classroom: 07

i) Budget

Allocated for the academic year	Utilization	If Deviated, kindly mention the reason
11,40,000/-	10,43,671/-	91.55% .

V. STUDENT and FACULTY ACHIEVEMENT

18. Number of students participated in enhancement and development scheme

S.No.	Year/ Semester	Total no. of students	Number of students participated	Number of students Won	Remarks (Co curricular/ Extra - curricular)
1.		10	10	-	-
					Need more participations.

88
Students.

19. Number of outgoing students placed along with the name of the employer with contact details

S.No.	Name of the students	Employer details	Package received	Remarks
1.	Dhanika G	TCS	7,00,022/-	

20. Details of the students going for higher education

S.No.	Name of students Enrolling into higher education	Name of institution joined	Name of program admitted to	Remarks Within state/ other state/ other country
1.	Lakshminis. A	NBC	MB CSE	2023.

21. Number of awards/medals for outstanding performance in sports/cultural activities at national/international level

S.No	Name of the award/ medal	National/ International	Sports/ Cultural	Name of the Student	Number of students	Remarks
1.	Gold Medal	National	KUDO	V.R. Borath	1	SI winning.

22. Details of the student council and the departmental student chapters

Name of the Chapters	Number students enrolled	Remarks(Any awards)
ISTB	128 + 130 = 258	Best Student Award - David R. (200504)

23. Details of the contributions of alumni in the development of the department/institution through financial and non financial means

S.No.	Date	Title	Speaker	Attendees
1.	10.8.24	Recent Trends in CT.	A.P. Sridhar Kumar. (2014)	58.

24. Details of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies

Name of teacher	Name of conference/workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support	Remarks
P. S. Kumar	ICEMCE 2023	—	5000	Need party Exp. Financial Support.

25. Details of teachers attending professional development Programmes viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes:

Name of the Faculty	Title of the professional development program	Date and Duration (from-to)	Remarks
K.E. Bswari	-NET Fallstate, Wipro - Teach Next	23/10/23 - 10/11/23	17 days.

26. Details of quality enhancement initiatives in the academic and administrative domains of the department

Name of the Initiative	Action Taken
OBE Training	Field Visit / SIT / Campus Visit.
QP Scisity.	1. Levels of Scisity. 2. Final report.

27. Number of association/gender equity promotion Programmes organized by the department

S.No.	Name of the activity	Organizing unit/agency/collaborating agency	Number of students participated in such activities	Date	Remarks

28. Faculty acted as Resource Person/External Expert

S.No.	Name of the Faculty	Name of the organization/ Institute	Nature of work
1.	Dr. P. Thirumorthy.	IBI	Committee members.

29. Report on Minutes of meetings in the Department

Can give few more days notice.

30. Newsletter/ Magazine for the current academic year

News letter - 2/Year.

Magazine - 1/Year.

31. Laboratory/ Project Evaluation methods & Rubrics

Need to frame Rubrics.

32. Project Report quality

Pairs.

33. CAT questions & Mini project standardization

Questions - Good. Need Rubrics for Mini Project.

34. Student feedback on faculty & Action taken

Maintained Properly.

35. Short Term Goal of the Department (Minimum 5 Points)

- To organize International Level Conference
- To increase the average salary package to 10 LPA
- To increase the no. of students clearing GATE, TOFEL, etc.
- To motivate and increase the no. of Entrepreneurs
- To sign MoUs with International Universities
- To establish Special lab
- To generate more revenue through consultancy and internships.
- To build a good rapport with the department Alumni and use their guidance for the students

36. Long term Goal of the Department (Minimum 5 points)

- 100% PhD holders.

- To be a Industry driven department with 100% placement, Entrepreneurship & Higher studies.

37. SWOC analysis

100% Ph.D holders
Entrepreneurship and higher studies

Strength:

- Skilled Faculty members
- Student Enrollment ratio is good
- Good placement record
-

Weakness:

- No Sponsored research program

- Limited no. of SCI publications and citation
- National level achievers in both co-curricular and extra - curricular are limited
- Limited Multi-disciplinary projects

Opportunities:

- Start-ups
- Industrial collaborations with Faculty Teams.

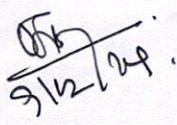
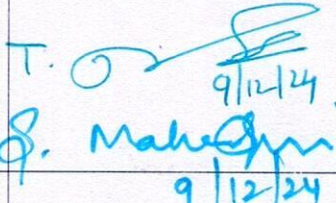
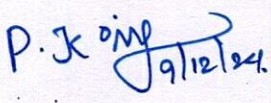
Challenges:


- Visiting professors availability during weekdays
- Resource availability (Plagiarism checker, Leading Journal Access).


Remarks by the Auditors:

- Files are maintained properly and seems Curd.
- Need to check for compliances with proper Signatures by the Concerns Incharges. Probis also must include.

Members of the Audit committee:

Details	External	Internal	Coordinator
Signature with Date	 9/12/24	 9/12/24 S. Maheswari 9/12/24	 9/12/24 P. Kokila 9/12/24
Name & Designation	Dr. K. Thangaraj, AsP/IT, Sona College of Technology, Salem	Ms.S.Maheswari, AP / CSE(IOT)	Ms.P.Kokila, AP/ ECE.
Address	Junction Main Road, Salem. 636005.	NEC, ERODE	Nandha Engineering College, Erode
Mobile no	9994205317	9942436302	9500724487
Email Id	thangarajeswan@ gmail.com	maheswari-s @nandhaengg .org	kokila.pavanaswan@ nandhaengg.org


HoD 09/12/24


HEAD/IQAC 24/12/24


PRINCIPAL 27/12/24