YEARLY STATUS REPORT - 2020-2021

Part A	
Data of the Institution	
1.Name of the Institution	NANDHA ENGINEERING COLLEGE
• Name of the Head of the institution	Dr N. RENGARAJAN
• Designation	PRINCIPAL
• Does the institution function from its own campus?	Yes
• Phone No. of the Principal	04294 – 225585
• Alternate phone No.	
• Mobile No. (Principal)	7373712234
• Registered e-mail ID (Principal)	principal@nandhaengg.org
• Address	Vaikkalmedu, Pitchandampalayam (Po), Erode-52
• City/Town	Erode
• State/UT	Tamilnadu
• Pin Code	638052
2.Institutional status	
• Autonomous Status (Provide the date of conferment of Autonomy)	17/08/2012
• Type of Institution	Co-education
• Location	Rural

• Financial Status	**Self-financing**
• Name of the IQAC Co-ordinator/Director	**Dr. S. KAVITHA**
• Phone No.	**04294 - 225585**
• Mobile No:	**9942215651**
• IQAC e-mail ID	**iqac@nandhaengg.org**
3.Website address (Web link of the AQAR (Previous Academic Year)	https://nandhaengg.org/wp-content/uploads/2022/01/AQAR-2019-2020.pdf
4.Was the Academic Calendar prepared for that year?	**Yes**
• if yes, whether it is uploaded in the Institutional website Web link:	https://nandhaengg.org/academic-calendar/

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 2	**B**	**2.54**	**2015**	**15/03/2015**	**02/03/2020**

6.Date of Establishment of IQAC	**01/12/2014**

7.Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?

Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount
Dr.D.Vanathi	Smart India HACKATHON 2020	MSME	01/08/2020	0
Mr.S.Muruganatham	MoE's Innovation Cell	AICTE	16/02/2021	0
Dr.S.Arumugam	Fellowship Award	Computer Society of India, CSI 2020	16/01/2020	0

8.Provide details regarding the composition of the IQAC:

• Upload the latest notification regarding the composition of the IQAC by the HEI	[View File](#)

9.No. of IQAC meetings held during the year	4
• Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website?	Yes
• If No, please upload the minutes of the meeting(s) and Action Taken Report	No File Uploaded

10.Did IQAC receive funding from any funding agency to support its activities during the year?	No
• If yes, mention the amount	

11.Significant contributions made by IQAC during the current year (maximum five bullets)

• Introduction of Fast track courses • Credits for online courses • Peridical Academic Audits • Skill development programme for faculty members and students • Knowledge Enrichment webinars for students

12.Plan of action chalked out by IQAC at the beginning of the academic year towards quality

enhancement and the outcome achieved by the end of the academic year:

Plan of Action	Achievements/Outcomes
Collaboration with industries to be strengthened.	In order to increase the collaboration with industries, One credit courses offering has been taught by industry experts. Students have been motivated to undergo Internships and the same will be considered for credit exemption.
Enhancing the skill development activities through IIC (CiPD - Centre for innovation and Product Development)	IIC of Nandha Engineering College has been awarded five star and four star rating by the Ministry of Education (MoE) for innovation and start-ups for the year 2019-2020& 2020-2021 respectively. BI of NEC has been funded with Rs.15 lakh for the idea Roll and Pull Uprooting Machine which is helpful to the small and marginal farmers to harvest Tapioca with less manpower.
Implementation of Learning through Online Tools	Various online tools including zoom, Google classroom, Cisco webex were introduced for effective Teaching and Learning
Digital platform for placement practice tests	Introduced
Academic Audit	Monitor the academic activities such as syllabus completion, performance of the student, etc.,
Proctor	All the Students are monitored individually for their academic and personal growth. Every 20 students are allotted to a proctor.
Internship	Students are motivated to undergo internship to gain skill

	and knowledge that is needed to work in a professional environment.
Feedback System	Students provide feedback on faculty, academic and non-academic facilities. Feedback is considered as a measure in the individual faculty appraisal.
Research activities	The Institution has conducted various webinars, workshops, and FDPs to promote research in the areas of patents filing, improving research visibility, etc.

13.Was the AQAR placed before the statutory body?	Yes

- Name of the statutory body

Name of the statutory body	Date of meeting(s)
MANAGEMENT - IQAC	19/01/2022

14.Was the institutional data submitted to AISHE ?	Yes

- Year

Year	Date of Submission
2020-2021	25/03/2022

Extended Profile

1.Programme

1.1   15

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	[View File](#)

2.Student

2.1   **2819**

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	[View File](#)

2.2   **849**

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	[View File](#)

2.3   **2784**

Number of students who appeared for the examinations conducted
by the institution during the year:

File Description	Documents
Institutional Data in Prescribed Format	[View File](#)

3.Academic

3.1   **546**

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	[View File](#)

3.2   **225**

Number of full-time teachers during the year:

Extended Profile

1.Programme

1.1 Number of programmes offered during the year:	**15**

File Description	Documents
Institutional Data in Prescribed Format	View File

2.Student

2.1 Total number of students during the year:	**2819**

File Description	Documents
Institutional data in Prescribed format	View File

2.2 Number of outgoing / final year students during the year:	**849**

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3 Number of students who appeared for the examinations conducted by the institution during the year:	**2784**

File Description	Documents
Institutional Data in Prescribed Format	View File

3.Academic

3.1 Number of courses in all programmes during the year:	**546**

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2 Number of full-time teachers during the year:	**225**

File Description	Documents
Institutional Data in Prescribed Format	<u>View File</u>

3.3 Number of sanctioned posts for the year:	**225**

4.Institution

4.1 Number of seats earmarked for reserved categories as per GOI/State Government during the year:	**609**
4.2 Total number of Classrooms and Seminar halls	**63**
4.3 Total number of computers on campus for academic purposes	**926**
4.4 Total expenditure, excluding salary, during the year (INR in Lakhs):	**643.69**

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

Curricula and syllabi are devised by obtaining inputs from the stakeholders and subject experts. The suggestions are reviewed by the Chairman of BoS and the recommendation is incorporated and the framed curriculum is submitted for BoS approval. Standing Committee consolidates the inputs and submits to Academic council which scrutinizes and approves the proposals of BoS with regard to academic regulations, curricula, syllabi and modifications.

Curriculum, COs, POs and PSOs are evaluated by the PAC and DAB Members.

OBE

OBE is being followed since 2015-16. Keeping OBE in forefront, changes in regulations, inclusion of open electives and embedded courses are made besides introducing add/drop courses for students to study the courses in advance and to pursue internships.

CBCS

CBCS is adopted since 2015-2016 to provide freedom to students to select courses which enable them to learn at their own pace, undergo additional courses, acquire additional credits and adopt an interdisciplinary approach to learning

Curriculum on National, Regional and Global Developmental Needs

To promote global competencies and to resolve environmental, ethical and social issues courses like Soft Skills, Employability Enhancement and Analytical Skills and club activities are offered. Lifelong learning is promoted through Value added Courses, Open Electives, online courses and MoUs.

File Description	Documents
Upload additional information, if any	[View File](#)
Link for additional information	https://nandhaengg.org/curriculum-development/

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

14

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	[View File](#)
Details of syllabus revision during the year	[View File](#)
Any additional information	[View File](#)

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development

offered by the Institution during the year

410

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	View File
MoUs with relevant organizations for these courses, if any	View File
Any additional information	View File

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

49

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

15

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

Nandha Engineering College endeavors to inculcate ethics and values in students to make them better citizens. Curriculum includes courses pertaining to Professional Ethics, Gender, Human Values and Environment and Sustainability. As a supplement of this, the Institution organizes Seminars and Awareness Programs etc, that helps in integrating cross-cutting issues.

Professional Ethics & Human Values

The curriculum encompasses courses that address Professional Ethics and human values such as, Professional Ethics and Human Values, Personality and Character Development, Ethics and Cyber Security, Inter Personal Values, etc., These courses instill ethical norms and basic values necessary for the human beings. Besides, the Institution offers yoga classes for the wellbeing of the students.

Gender Equity:

The Institution fosters gender equity by providing equal opportunities for both the genders. The Institution designates women students and faculty members in various positions to empower them. Women Development Cell and Anti Sexual Harassment Cell is constituted to promote social respect, safety and self-dignity of women.

Environment and Sustainability:

Energy conservation in buildings, Industrial Wastes Treatment and Disposal, Waste Management, Renewable Energy Technology, etc., make students aware of the problems that are threatening the Environment and enable them to probe into the causes and remedial measures for environmental issues.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	View File

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

20

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	View File
Any additional information	View File

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

945

File Description	Documents
List of students enrolled	View File
Any additional information	View File

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

1658

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	View File

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni   A. All 4 of the above

File Description	Documents
Provide the URL for stakeholders' feedback report	https://nandhaengg.org/curriculum-feedback/
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File
Any additional information	View File

1.4.2 - The feedback system of the Institution comprises the following   **A. Feedback collected, analysed and action taken made available on the website**

File Description	Documents
Provide URL for stakeholders' feedback report	https://nandhaengg.org/curriculum-feedback/
Any additional information	View File

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

634

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)

516

File Description	Documents
Any additional information	[View File](#)
Number of seats filled against seats reserved (Data Template)	[View File](#)

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

Response:

Learning Level Assessment:

The college has a transparent mechanism to identify the learning levels of the students based on their academic performance. Student's learning levels are assessed by the Proctors and Academic Coordinators based on the performance in Continuous Assessment Tests and End Semester Examination results. To maximize the skill based education and to enhance student's learning outcomes, the college provides pathways for learning opportunities.

Slow learners

Students are identified as slow learners and adequate support are provided to overcome academic difficulties by arranging video presentation, additional coaching classes and practice assignments.

Students those who failed in analytical subjects are identified, particularly in Mathematics, special coachingclasses are conductedduring week ends.

Fast learners

The institution encourages high performers to participate in competitions, the students are encouraged to participate in National and International level competitions, conferences and Seminars. Further students are motivated to exhibit their ideas as projects in various events like Project expo, Ideathon, Hackathon, etc.

Advanced learners are allowed to take additional courses by choosing Open Electives and Professional Electives from the second year of study. Besides, the students can study one credit courses offered by industry experts and Add on course during the week ends.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://nandhaengg.org/2-2-1/

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
Nil	2819	225

File Description	Documents
Upload any additional information	View File

2.3 - Teaching- Learning Process

2.3.1 - Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:

Nandha Engineering College has applied student-centric learning to promote Outcome-Based Education (OBE) through experimental, participative, and problem-solving methodologies. Effective Teaching Learning Process is achieved through regular course delivery to attain and to improve COs, POs & PSOs used for different level of students.

EXPERIENTIAL LEARNING

PBL/RBL (Project Based Learning/Research Based Learning

One Credit Courses

Summer Internship

Industry Visits

Guest Lectures, Seminar, Conference & Workshops

- **As a part of academic development, Guest lectures, Career Oriented Lectures, Seminar, Conference and workshops are arranged by all Departments Association throughout the year.**
- **Through the association, the students are encouraged to attend Seminars and present papers in other reputed institutions.**

PARTICIPATIVE LEARNING

Professional Society

Club Activities

PROBLEM SOLVING METHODOLOGY

Projects that solve the problems of social relevance.

- **Real time assignments and case studies enable the students to provide the solutions for real world problems.**
- **Students apply the theoretical Knowledge in Laboratory classes to solve specific problems.**
- **Case study methodology enhances students problem-solving techniques**
- **Collaborative learning model is adopted to enhance problem solving skills Simulation tools and Virtual labs are effectively used to provide hands on experience to students in analytical/ Problem Solving approaches**

File Description	Documents
Upload any additional information	[View File](#)
Link for additional Information	https://nandhaengg.org/2-3-1/

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

Response

Faculty members in the institution use Information and Communication Technology (ICT) tools very effectively to enhance the teaching-learning process among the students by creating interest in live concepts.

ICT TOOLS

- Projector
- Examly software
- Presentation Software
- Mic

Infrastructure

- Laboratories, Classrooms, Seminar halls, Conference Rooms, Auditoriums, and Hostels are enabled with Wi-Fi internet facility with a bandwidth of 500 Mbps, which provides space for the students to learn from e-resources to update their skills.

Digital Library

Nandha Engineering Central Library (NECL) is fully automated and specially designed to motivate the learning skills of students community. The library has a unique website in the name NECL.

Examly

- Nandha Engineering College uses Examly Software that provides learning contents, practice exercises and assessments to teach programming courses for improving the programming skills of students.
- End Semester Practical Examinations for Programming Languages, Placement Training Tests and One mark Online Tests are conducted through Examly Software

E-resources

- The e-resources like DELNET, INFLIBNET, NLIST, NDLI, ShodhSindhu, ShodhGanga, etc. are used.

Web Links

The following links are provided for describing ICT enabled tools for effective teaching and learning process:

https://new.edmodo.com/groups/15cs701-principles-of-cloud-computing-304393390

Name of the e-content development content

https://www.youtube.com/watch?v=iPIOY1VqP-M

http://www.nandhaengg.org/images/cse/Ball_Game.pdf

Youtube Link

https://youtube.com/channel/UC7lLbSzZfIPqNWiuRFa38Mg

https://youtube.com/channel/UCxc3N_WO4vjYKqXObjtVoEQ

https://youtube.com/channel/UCMOXbLyDoiKbpxhAcxYaVxQ

https://youtube.com/channel/UClZeKuk4wwaZolVi7Uehi4A

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://nandhaengg.org/4-3-4-econtent/
Upload any additional information	View File

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

168

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

Academic Calendar

Academic calendar is prepared in discussion with the Principal, Controller of Examinations, Deans and Heads of the Departments. It is prepared well in advance for each semester of every academic year for all the years and it is circulated to the faculty members and students. A timeline for completing the syllabus and conducting the Internal and End Semester exams is suggested in the

Academic Calendar. It provides adequate balance between academic and non-academic activities. It includes all important details such as commencement of classes, Parent teacher meetings schedule, Project review dates, assignment submission dates, Class committee meeting information, Academic Audit schedule, Submission of Continuous Assessment Test marks, Internal marks and Tentative date for End Semester Exam both theory and Practical, Public holidays, Festival breaks in addition to the College fests etc., Few activities are deviated due to unavoidable reasons like placement drives, declaration of holidays by the Government / Local authority.

Course Plan

Curriculum and Syllabi is developed in BoS meeting and the same is approved in Academic Council Meeting. T Before commencement of every Semester, Heads of the Department conducts a meeting with their faculty members to allocate the subject for both theory and laboratory.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full-time teachers against sanctioned posts during the year

225

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	View File
Any additional information	View File

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

55

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	View File

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

1583

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	View File

2.5 - Evaluation Process and Reforms

2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year

19

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	View File

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

0

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	View File

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

Processes integrating IT

- **Introducing of master course from academic council data form syllabus.**
- **Registration of students for Regular courses.**
- **Generate examination application form.**
- **Record of question paper bank and Valuer by Head of the Department (HoD).**
- **Preparation of Continuous Assessment Test Time table**
- **Semester examination Question Paper setter and valuation entry by HoD**
- **Question Paper setting order sent by Controller of Examinations (CoE)**
- **Preparation of Examination Gallery report.**
- **Publication of Exam Time table through web portal.**
- **Examination seating arrangement in software and display for student view.**
- **Semester Exam Invigilation duty assignment and order printing**
- **Examination Valuation order mailed.**
- **Valuation mark entry and printing of Hardcopy of Grade sheet.**
- **Generation of valuation claim bill and sent through online.**
- **Result published in college website on the same day of Result Passing Board**
- **Applying for Revaluation and Retotalling.**
- **Revaluation result published in college website**
- **Award list is prepared and sent the same to University for issuing Provisional certificate and DegreeCertificate**
- **Printing of Grade sheet, Consolidated Mark sheet for issuing to students.**

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	https://nandhaengg.org/wp-content/uploads/2022/03/2.5.3_NEC_ADDL-1.pdf

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

The learning effectiveness of any program and course depends on the POs and Course Outcomes (COs). The PEO, PSO and PO are displayed at various prime locations in the institute premises and is also available on the website to make faculty members and students aware about the PO, PSO and PEO. In order to make students aware about Course Outcomes (COs), the department had mentioned COs in the syllabus of the respective courses.

The Program Outcomes, Program Specific Outcomes are helpful in developing the framework of teaching and learning. The Course outcomes facilitate in clear understanding about the course expectations and also support the process of learning. The Course outcomes also present a clear picture of employability, skill development and entrepreneurship prospects of the course.

Process of Dissemination:

- College Website – www.nandhaengg.org

- Dissemination to the internal stakeholders

Displayed in all prominent places of department such as HoDs chamber, Department notice board, Faculty rooms, Classrooms, Library, Hostel, Laboratories and Newsletters.

- Communicated to students before starting of the course.
- Dissemination is ensured by proctors during the proctor meeting.

- Dissemination to the external stakeholders

Discussed in BoS meeting, Parents meeting, included in the funding agency sponsored Seminar/Workshop proposal brochures, and Alumni

meet.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	[View File]
Upload any additional information	[View File]
Link for additional Information	https://nandhaengg.org/wp-content/uploads/2022/03/2.6.1_NEC_ADDL.pdf

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

CO Assessment Processes:

To identify the extent of compliance of the curriculum for attaining the POs and PSOs different processes or methods are adopted through direct and indirect assessment methods.

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

- **Continuous Assessment Test (CAT)**
- **Assignment**
- **Online Test**
- **End Semester Examinations(ESE)**
- **Project evaluation**

Indirect assessment is done by conducting

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

The attainment levels of the COs, POs and PSOs are very important parameters for the OBE system. This helps in creating an academic environment for achieving excellence. The efficiency and effectiveness of the process is continuously monitored, assessed and improved by taking inputs from the discussion/suggestion/decision taken in the meetings of the Department.

Assessment of COs for Theory and Laboratory courses:

The Assessment of COs for Theory courses are based on

- **CAT**
- **Assignments**
- **Online Tests**
- **ESE**

Laboratory courses' outcomes are evaluated based on

- **Continuous Monitoring of regular Laboratory Classes,**
- **Model Examination.**
- **.ESE**

Direct Attainment Calculation:

Direct Attainment for Theory= 0.6* ESE + 0.3*CAT + 0.05*Assignment + 0.05*Online test

Direct Attainment for Laboratory= 0.5*ESE + 0.5*(CAT+Model)

Overall Attainment = 80% of Direct Attainment + 20% of Indirect Attainment

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	https://nandhaengg.org/2-6-student-performance-and-learning-outcomes/

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

828

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	[View File](#)
Upload any additional information	[View File](#)
Paste link for the annual report	https://nandhaengg.org/wp-content/uploads/2022/03/2.6.3_NEC_AADL.pdf

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink

https://nandhaengg.org/wp-content/uploads/2022/04/SSS-2020-2021.pdf

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

The strength of the research initiatives is that they confirm to establish norms and standards for ethical conduct of research. The well-defined research policy has been displayed on college website.

R & D Cell

The R & D Cell keeps a constant check on the calls for proposals and encourages faculty members to submit proposals to government and non-government funding agencies. Research proposals must go through a multi-tiered review process that includes the research and development committee and the research ethical committee.

Research Laboratories:

The institution has been 3 research centres offering Ph.D programmes in different disciplines they are Computer Science and Engineering (CSE), Electronics and Communication Engineering (ECE) and Mechanical Engineering (Mech). The institution has received research funds to set up laboratories Fuel Cell Research Lab and Nano Research Lab, under the scheme of AICTE AQIS RPS and

constructed Cloud Base Virtual Computing for Open Source Software Teaching and Research Laboratory under the scheme of AICTE-MODROB.

Library:

The institution maintains a highly stacked library for research reference. The digital library has 200 IEEE access, 2952 JGate, and 235 DELNET Pro-quest online journals, 8820 e-books, 31,535 Audio Visual courses, and 9202 Conference Proceedings with back volumes.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	https://nandhaengg.org/research-activities/
Any additional information	View File

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

1.7

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	View File
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	View File
Any additional information	View File

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

26

File Description	Documents
e-copies of the award letters of the teachers	View File
List of teachers and details of their international fellowship(s)	View File
Any additional information	View File

3.2 - Resource Mobilization for Research

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

16.745

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	View File

3.2.2 - Number of teachers having research projects during the year

2

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://nandhaengg.org/research-activities/
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

1

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	[View File](#)
Institutional data in Prescribed format	[View File](#)

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

1

File Description	Documents
Supporting document from Funding Agencies	[View File](#)
Paste link to funding agencies' website	https://nandhaengg.org/research-activities/
Any additional information	[View File](#)

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

Centre for Innovation and Product Development (CiPD)

CiPD plays a vital role in inviting innovators, researchers, successful startups/entrepreneurs from varied fields to share their experience to benefit students/faculty members. CiPD aims to build an interdisciplinary networks/teams and facilitate to impart the subtle aspects of innovation, IPR, startups and entrepreneurship.

Business Incubator:

Nandha Engineering College was approved as a Host Institution (HI) by MSME, Government of India in the year 2018. So far, 10 products have been launched; benefitting various sectors of the society. Our BI has received a funding of Rs.15lakhs under "Support for Entrepreneurial and Managerial Development of MSMEs through Incubators scheme" for product development.

Institution's Innovation Council (IIC):

IIC at Nandha Engineering College was started in the year 2018 with major focuses such as work on new ideas and innovation, create complete innovation ecosystem, conduct various innovative and entrepreneurship-related activities, reward innovations and share success stories, organize periodic workshops/seminars and network with entrepreneurship development organizations.

Entrepreneur Development Centre (EDC):

EDC Cell has been organizing various entrepreneurial promotional programs to transform students into entrepreneurs once creating entrepreneurial awareness among them with funding supports from agencies like DST-NIMAT, Department of Science and Technology(DST), Ahmedabad, etc.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://nandhaengg.org/wp-content/uploads/2022/03/3.3.1_NEC_ADDL.pdf

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

95

File Description	Documents
Report of the events	[View File](#)
List of workshops/seminars conducted during the year	[View File](#)
Any additional information	[View File](#)

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research   **A. All of the above**

**Ethics in the research methodology course
work Plagiarism check through
authenticated software**

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	View File
Any additional information	View File

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

17

File Description	Documents
URL to the research page on HEI website	https://nandhaengg.org/research-activities/
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	View File

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

0.28

File Description	Documents
List of research papers by title, author, department, and year of publication	View File
Any additional information	View File

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

0.54

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://nandhaengg.org/wp-content/uploads/2022/03/3.4.4.nec_additional-information-1.pdf

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

245

File Description	Documents
Any additional information	[View File](#)
Bibliometrics of the publications during the year	[View File](#)

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

20

File Description	Documents
Bibiliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	[View File](#)
Any additional information	[View File](#)

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

6.125

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	View File
Any additional information	View File

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

22.86726

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View File
List of training programmes, teachers and staff trained for undertaking consultancy	View File
List of facilities and staff available for undertaking consultancy	View File
Any additional information	View File

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

Response:

The Nandha Engineering College organizes several extension activities to uplift the institute-neighborhood community to sensitise the students towards community needs. Extension programmes like NSS, YRC, Rotaract Club, Tree Plantation Club, and Road Safety Club to encourage students to participate in community building processes.

National Service Scheme (NSS):

The NSS of Nandha Engineering College has undertaken several extension activities for the benefit of society. NSS organizes a seven-day residential camp in nearby villages and addresses the significance of social issues.

Rotaract club:

Our institution encourages student participation in community service through Rotaract club. Programmes like planting saplings, visiting old age homes and orphanages, clean India activities and dengue awareness programmes were arranged.

Personality and Character Development:

The institution has vibrant clubs such as Organic Forming Club, Tree Plantation Club, Road Safety Club, and YRC, which have been made an integral part of the curriculum to encourage students to participate in community building processes. Students can learn about social responsibility by participating in these clubs.

Innovation Day and Career Guidance Programme:

We host an innovation day to exhibit the various projects and share their ideas with the public and school students. This initiative promotes innovative ideas among school students.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://nandhaengg.org/personality-and-character-development/

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

6

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	View File
Any additional information	View File

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

11

File Description	Documents
Reports of the events organized	View File
Any additional information	View File

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

692

File Description	Documents
Reports of the events	View File
Any additional information	View File

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

264

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	View File

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

9

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	View File
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
Any additional information	View File

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipments, etc.

Nandha Engineering College (NEC) covers a boundary of 25 acres with a 4,43,234 sq. ft area. All the classrooms (63 Nos) are equipped with LCD/LED Projectors/Smart TVs, Personal Computers, and Wired/Wireless Internet connectivity. The Infrastructure includes 4 drawing halls of 4300 sq.ft, 3 Seminar halls of 2680 sq.ft and an Auditorium of 5655 sq.ft spanning across 9 blocks. NEC is equipped with 58 laboratories with state of the art facilities. Industry Sponsored laboratories in collaboration with the leading industries and funding agencies have been established. Nandha Central Library with 10,800 sq.ft has 61,555 Volumes, 19,263 Titles, 96 International Journals, 102 National Journals in addition to 77 Technical Magazines and 32 General Magazines. A total number of 1,163 computers, 72 printers and 10 scanners are available. The Institution establishes Industry Supported Labs by signing MoUs with leading industries. The Learning Management System of NEC includes Google Classroom, Smart Nandha, an online intra campus management system and AI powered learning and assessment tool named EXAMLY.The College's Centre for Innovation in Product Development (CiPD) has a built-up space of 2,448 square feet. The college has a robust transport system with a fleet of 40 buses operating from our campus.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://nandhaengg.org/wp-content/uploads/2022/03/4.1.1-Index-New.pdf

4.1.2 - The institution has adequate facilities for cultural activities, yoga, sports and games (indoor and outdoor) including gymnasium, yoga centre, auditorium etc.)

Response:

Department of Physical Education

The college provides first-rate facilities for indoor and outdoor games. The College also conducts Annual Sports Meet. In addition to team games, individuals have excelled in College and University level sports and in Athletic events.

Indoor Auditorium

The auditorium is located at the backside of Block 5 in a spanning area of 24,000 sq.ft.

Yoga

A spacious hall is maintained for doing Meditation and Asanas. The College, with the aid of Erode Manavalakalai Mandram Trust, offers yoga classes for all the students and staff members. Trained full time yoga teachers are available to teach yoga.

Open Air Theater

The institute comprises two open air theaters with a seating capacity of 2,500 and 1,200 respectively.

ATM

A well maintained 24x7 ATM with CCTV surveillance is positioned near the main gate to focus on basic bank transactions.

Gymnasium

The significance of the gym is, it is in-door and stretches across a large area. This in-door unit is separate for boy and girl users.

Medical Facilities

Tie-ups have been established between the Institute and Nandha Medical College Hospital, as well as between the Institute and Krishna Medical Center, Perundurai.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	View File
Paste link for additional information	https://nandhaengg.org/wp-content/uploads/2022/03/index-4.1.2.pdf

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

63

File Description	Documents
Upload any additional information	View File
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

60.58

File Description	Documents
Upload audited utilization statements	View File
Details of Expenditure, excluding salary, during the years	View File
Any additional information	View File

4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS)

Nandha Engineering Central Library (NECL) is fully automated. It functions in a three- storey building with an area of 1080 square feet. The Library has a collection of books around 61,144 volumes and 19,040 titles. For the periodical section, the Library subscribes to 198 International and National print journals, as well as 77 Technical Magazines and six daily newspapers (English papers alone).

The air-conditioned digital library is implemented with 32 desktop and 20 Laptop usable desks for accessing 200 IEEE, 2952 JGate, 130 ProQuest online journals, 8820 e-books, 31,535 Audio Visual courses and 9202 Conference Proceedings with back volumes. These can be accessed inside the campus on 24/7 basis via Wi-Fi and also through remote access by using User name and Password for IEEE and J-Gate. There are 3005 e-Books, 852 e- Journals and e-Magazines as CDs, DVDs and VCDs. It also includes more than 292 NPTEL courses for teaching and learning purposes.

Name of the Software – Campes – i Lib : The Digital Librarian

Nature of automation – Fully Automated with Barcode tag

Version – 7.0.2

Year of automation – 2006

. The library has procured unavailable and rare books by using membership with Developing Library Network (DELNET).

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://nandhaengg.org/4-2-1/

4.2.2 - Institution has access to the following: **A. Any 4 or more of the above**
e-journals e-ShodhSindhu Shodhganga
Membership e-books Databases Remote
access to e-resources

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	View File
Upload any additional information	View File

4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)

21.04

File Description	Documents
Audited statements of accounts	View File
Any additional information	View File
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

790

File Description	Documents
Upload details of library usage by teachers and students	View File
Any additional information	View File

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

The Institution has designed its own maintenance policy procedure that includes several methods to achieve the effective maintenance of physical, academic and other facilities.

Methods

Effective maintenance is being achieved by using the following methods.

1. Reformation site

2. Class Committee Meetings

3. Periodical visits by the supervisors concerned

4. WhatsApp group

MAINTENANCE SECTION

A centralized maintenance section, headed by a maintenance manager and supported by skilled technicians such as electricians, plumbers, carpenters and masons is in practice.

1. Physical Facilities

Electrical Maintenance

Building Maintenance

Furniture Maintenance

Network / Wi-Fi Maintenance

2. Academic Facilities:

Library

Laboratories

Classrooms

? The Institute has an RO plant that provides 24X7 drinking water facility.

? Surveillance Cameras are fixed in and around the Campus for security purposes and they are maintained by the system administrators.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://nandhaengg.org/4-3-1/

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
2819	926

File Description	Documents
Upload any additional information	View File

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus

A. ?50 Mbps

File Description	Documents
Details of bandwidth available in the Institution	View File
Upload any additional information	View File

4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing

A. All four of the above

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://nandhaengg.org/4-3-4-econtent/
List of facilities for e-content development (Data Template)	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

98.28

File Description	Documents
Audited statements of accounts	[View File](#)
Upload any additional information	[View File](#)

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities – classrooms, laboratory, library, sports complex, computers, etc.

The Institution has designed its own maintenance policy procedure that includes several methods to achieve the effective maintenance of physical, academic and other facilities.

Methods

Effective maintenance is being achieved by using the following methods.

1. Reformation site

2. Class Committee Meetings

3. Periodical visits by the supervisors concerned

4. WhatsApp group

MAINTENANCE SECTION

A centralized maintenance section, headed by a maintenance manager and supported by skilled technicians such as electricians, plumbers, carpenters and masons is in practice. This section takes care of the maintenance of infrastructural facilities that include plumbing, electrical, carpentry, masonry and sewage works. The section receives maintenance requirements from the departments and other sections and undertakes the necessary work following internal operating procedures under the directions given by the supervisors concerned, without disturbing the regular activities.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://nandhaengg.org/system-and-procedure-for-maintaining-and-utilizing-physical-academic-and-support-facilities/

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

1766

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	[View File](#)
Upload any additional information	[View File](#)

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

1005

File Description	Documents
Upload any additional information	[View File](#)
Institutional data in prescribed format	[View File](#)

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology

A. All of the above

File Description	Documents
Link to Institutional website	https://nandhaengg.org/capacity-development-and-skills-enhancement/
Details of capability development and schemes	View File
Any additional information	View File

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

2063

File Description	Documents
Any additional information	View File
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees

A. All of the above

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	View File

5.2 - Student Progression

5.2.1 - Number of outgoing students who got placement during the year

413

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File

5.2.2 - Number of outgoing students progressing to higher education

37

File Description	Documents
Upload supporting data for students/alumni	View File
Details of students who went for higher education	View File
Any additional information	View File

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

36

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	View File

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year

7

File Description	Documents
e-copies of award letters and certificates	[View File](#)
Any additional information	[View File](#)

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

Students Association:

Each department has its own association to accomplish students' technical abilities. The Secretary, Joint Secretary, Treasurers, and Executive members are elected by the student members to carry out the association activities to update emerging technologies and bridge the gap between industry and institute.

Class Committee:

The Class Committee Meeting provides a place for students to discuss their issues related to teaching – learning process. The meeting will be held twice a semester and will include the Convener, Chairperson, and a maximum of eight students who will represent the entire class. The complaints will be resolved and the action being taken will be updated in the reformation portal.

Women Development Cell

Women Development Cell has both the faculty and students of the College as its members and works with an aim to create a gender sensitized community. It has been organizing varied programs and International Women's Day to honor Women achievers with Kalki Award.

Clubs:

Various clubs are formed to maintain mental and physical fitness for the betterment of the students. The students in Cultural, Fine arts, Music, Photography, Sports, Road safety, Tree plantation and Trekking clubs are involved in various activities to build character, leadership and management qualities.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://nandhaengg.org/personality-and-character-development/

5.3.3 - Number of sports and cultural events / competitions organised by the institution

17

File Description	Documents
Report of the event	[View File](#)
List of sports and cultural events / competitions organised per year	[View File](#)
Upload any additional information	**No File Uploaded**

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

Alumni Association:

Nandha Alumni Association has been registered as "Nandha Poriyiyal Kalluri Munnaal Maanavargal Sangam" (Sl. No. : 100 / 2014) dated on 4th December 2014. It is envisioned and formed as a lifetime global platform which facilitate faster communication among the alumni members and provide an opportunity to "Learn, Leap and Lead" throughout their life.

NEC Alumni in all over the world who have enrolled in the college Vaave web portal. The "My Alumni Network" is the Mobile App powered by Vaave that allows Alumni, Students, Faculty members to access the institution's official alumni network on Mobile.

Alumni Association activities:

- **To promote the Industry interface, placement / internship and outreach programmes.**

Reunion:

The Institution conducted Silver Jubilee Reunion during November 2018.

Mentorship Programs:

Alumni Connect - To interact with Students on Career Guidance.

Objectives:

- **Prepare the next generation Leaders and Entrepreneurs.**
- **Provide motivation and mentorship to guide in career path options.**

Benefits:

- **Develop leadership skills in potentials.**
- **Students can get exposure to recent trends in Industry.**

Participation of Alumni in Academic and Industrial Interaction:

- **Member in Board of Studies, Academic Council and Governing Body.**
- **Resource person for one credit courses.**

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	https://nandhaengg.org/alumni-at-nec/

5.4.2 - Alumni's financial contribution during the year   **E. <2 Lakhs**

File Description	Documents
Upload any additional information	[View File](#)

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

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.

Nature of Governance:

Activities like Academic, Initiating new programs, research centres, Choice Based Credit System, Relative Grading and Accreditation process are executed by involving all faculty members.

Governing Council:

The GC meets once in a year, ensures that all decisions on admission, budget, infrastructure, teaching-learning process, and placements are in line with the Institute's vision, mission, and quality policy.

Institute Quality Assurance Cell (IQAC):

The objective of IQAC is to build a structure for making deliberate action to progress the institution's academic and administrative performance.

Statutory and Non- statutory Committees:

Several committees are in place to manage activities related to planning evaluation, academics, placement, student centric activities, co-curricular and extra-curricular activities, Industry Institute Partnership.

Finance Committee: The committee is to ensure the financial resources and scrutinizes the budget and monitors utilization. The committee proposes the budget for the financial year of departments and institute.

File Description	Documents
Upload any additional information	[View File]()
Paste link for additional Information	https://nandhaengg.org/wp-content/uploads/2022/03/6.1.1-NEC-ADDL.pdf

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

Decentralization: Heads of the department are responsible for the academic and administrative matters of concern department. The head of the department allot the workload with the respective faculty based on their area of specialization. All academic activities are planned by faculty members at department level in line with college goals.

Participative management: Management conducts periodical review meetings to discuss about the department activities related to students and faculty. Students' performance related to Enrolment Ratio, Academic performance, Graduate outcome, Career guidance, Training and Placement, Industry visit, In-plant training, Internship and sports achievements are discussed. Faculty activities like Teaching Learning process, Development/Training programs, publication, copy right, patent are monitored. Department activities include Singing MoU, Stakeholder visit, planning and implementation of Strategic plan. Best performing departments are highly appreciated.

Institutional practices: The Value Added Course is initiated to the students to meet the gap between the Industry needs and Institutions Curriculum. Whole course execution is done by industry person. Various clubs are implemented for the overall development of the students.

Academic and Research: The institution follows some strategies in Governance, Teaching-Learning process, Quality and Ranking, R&D, faculty development, Student care and Stakeholder participation.

File Description	Documents
Upload strategic plan and deployment documents on the website	View File
Upload any additional information	View File
Paste link for additional Information	https://nandhaengg.org/wp-content/uploads/2022/03/Stratgeic-Plan-2016-2026.pdf

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

GLOBAL COMPETITIVENESS

- **Strengthening of research publications**
- **Establishing Centre of Excellence (CoE)**
- **Revenue generation through consultancy works.**
- **Improving research activities by leveraging the grant-in-aid of external funding agencies**
- **Quality improvement through accreditation Introducing new programs**

HIGH QUALITY TECHNICAL EDUCATION

- **Active involvement of faculty in industry interaction**
- **FINE (Faculty Industry Education) Promoting culture of innovation, idea incubation and establishing**
- **Business Incubator Creating awareness about IPR for faculty and student members Encouraging filing of IPRs (Patent & Copyright**

Centres for Excellence as Tool for Capacity Building of an Educational institution:

Nandha Engineering College has joined hands with IT company to establish the centres for excellence. In-house companies namely IGEN services & solution, Thulliam InfoTech Private limited, Entuple technologies Private limited, Virtusa are established inside the college premises. Centre for excellence offers training to the students from II year onwards. Students are selected on the basis of their academic performance. Our institution introduces new emerging subjects that are not included in our curriculum as value added course such as VAC so that students can complete this

competitive world.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://nandhaengg.org/about-us-2/
Upload any additional information	View File

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from the policies, administrative set-up, appointment and service rules, procedures, etc.

Organization Structure: Management and the Governing Council play an important role in academic decision-making, administration, and the overall growth of the institution. IQAC team plays a vital role to escalate and implement the decision making and develops the projects suggested by the Secretary and Correspondent.

Governing Council: The Governing Council is the final decision-making body in all matters which is held once in a year. The Governing Council makes all necessary efforts (including the use of appropriate educational methods such as outcome-based education, infrastructure, equipment, and tools) to create a student-centric environment. The Governing Council monitors the strategic plan on a continuous basis and provides appropriate advice and direction to the administration for the implementation and development.

Appointment and service rules: The committee members shortlist the candidates through screening test, classroom demonstration and interview. The committee shortlisted the candidates and submit their recommendation to the principal and chairman and if selected then the appointment letter is offered by the chairman.

Statutory and Non- statutory Committees:

In addition to the Governing Council various statutory and non-statutory committees are actively involving in the activities which support the development of the college and students.

File Description	Documents
Paste link to Organogram on the institution webpage	https://nandhaengg.org/wp-content/uploads/2022/03/Organizational-Chart.pdf
Upload any additional information	View File
Paste link for additional Information	https://nandhaengg.org/hr-policy-3/

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Documen	View File
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	View File

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

Growth in professional career:

- **Faculty is encouraged to attend conferences / workshops / Faculty Development Programmes and training programmes every year.**
- **Sponsorships to attend training programmes and present papers in conferences.**
- **To enhance the faculty skill set several Faculty development programs (FDP) are also organized.**
- **Internet and free Wi-Fi facilities are available in campus for staff.**
- **Permissions, Casual Leave, Medical Leave, Vacation Leave, OD facilities are provided to the faculties.**

General Facilities

- The institution has sports, gym, and yoga facilities; the campus has ATMs

Other Benefits

1. Group Insurance

2. Emergency advance

3. Sponsorship for Higher

4. Sponsorship to attend Seminar / Paper presentation / Conference

5. Sponsorship to attend quality improvement and faculty development programme 6. Revenue sharing by staff in consultancy / testing (60:40 and 40:60)

7. Free Lodging facility to staff members who are staying in hostels

8. Bank Loan facility at concessional interest rates through the Indian Bank

9. School fee concession in Nandha Schools.

10. Free transportation

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://nandhaengg.org/wp-content/uploads/2022/03/6.3.1_NEC_ADDL.pdf

6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

56

File Description	Documents
Upload any additional information	View File
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

36

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	View File

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

203

File Description	Documents
Summary of the IQAC report	View File
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

Internal Auditing & External Auditing Procedure :

The internal audit is conducted twice a year , to ensure the accuracy of bills and vouchers. The audit team meticulously examines the income and expenditure bills and vouchers of the recurring and non-recurring expenses. The compliance report of

internal audit is submitted to the management of the institution through Principal. If any discrepancy is found, the same is brought to the notice of the Principal to resdue it. The management team examines the audit report. The accounts department audits and approves the disbursement statements before they are submitted to the Principal.

The Chartered Accountant ensures that all payments are duly authorized after the audit and the report is sent to the management for review. Any queries, in the process of audit would be attended immediately along with the supporting documents. Finally, the audit statement and balance sheet will be prepared by the chartered accountant for the institute to provide transparency at all levels. The institution had not come across with any major audit objection during the preceding years. The audited statement is duly signed by the authorities of the management and chartered accountant.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://nandhaengg.org/6-4-1/

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

0.2

File Description	Documents
Annual statements of accounts	[View File](#)
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	[View File](#)
Any additional information	[View File](#)

6.4.3 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Mobilisation of Funds:

The Institution is poised to grow and make its mark in global

scenario by providing requisite funds and optimal use of resources. Financial resources are mobilized by fee collected from the students and also generates funds from projects sponsored by government agencies and consultancy services. The fund is also mobilised through the alumni, placement fee, bus fee, book fee, exam fee, hostel fee and other miscellaneous charges.

Optimal utilisation of funds:

A constructive financial resource monitoring is done through the following procedures.

Before the commencement of every financial year, all the heads of the department instruct the concerned in-charges to provide the budget required for the upcoming academic year. The in-charges concerned provide both recurring and non-recurring expenses. The Head of the Institution submits a budget proposal that incorporates the above recommendations of all department heads within the Institution, to the management after getting approval from the finance committee of an organisation. The allocated funds are utilized properly as per the academic requirements.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	https://nandhaengg.org/6-4-3/

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

IQAC

The IQAC is led by the Principal, the Chairman of IQAC and consists of the following members: Director, IQAC Coordinator, all HODs, team of Senior Faculty Members, and a Placement officer.

Post Accreditation Improvements

The Institution becomes autonomous in the year 2013 and a choice-based credit system is established. Outcome-Based Education is

administered as per AICTE-NBA. The college has received NBA Accreditation under Tier-I in the year (2021-2024) for 3 UG programs: CSE, IT & ECE in (cycle-IV); in the year (2016-2019) CSE & ECE (cycle-III), CIVIL (cycle-I).

Teaching -Learning

Student learning is assessed through Continuous Assessment Tests, Periodic Assignments, Quizzes and an End of Semester Examination administered during their direct and indirect assessment tools. Consecutively to sustain the quality standards, each procedure is meticulously scrutinized through a wide-range of testing tools.

Improvements during 5 years:

3 New programmes and 3 Research centres are initiated after procuring NBA accreditation under Tier-I. New courses like AI, Biomedical, Agriculture and Chemical Engineering are offered. Faculty retention ratio, Publications and Publications with annexure are increased. Recognised Research Supervisors can be seen. Also in-house labs are established.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://nandhaengg.org/6-5-1/

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

Committees for Quality Improvement:

Syllabus is an abstract or programme of knowledge. The Calibre of teaching can be procured only by means of interpreting the syllabus. Periodical modification of curriculum enriches the pedagogy. This process is monitored on continual basis by Institutional Quality Assurance Cell (IQAC) through Programme Assessment Committee (PAC) and Department Advisory Board (DAB). Academic audits are periodically done for course file. Course Outcome, attainment process are reviewed recurrently.

Choice Based Credit System

The institution follows Choice Based Credit System (CBCS) and adopted the AICTE model Curriculum of 160 credits since 2018-19. The curriculum was designed by the faculty of the College following a lot of brainstorm sessions involving various stake holders including the current students undergoing the programme. The students were given more lab/practice-based courses. To expose the students to global learning methods and learn the human skills to reflect upon societal needs, few new courses such as universal Human Values and Indian Constitution were introduced in the curriculum. All the suggested changes in the curriculum by the departments and their BOS are put forth to the academic council for approval.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://nandhaengg.org/6-5-2/

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)

A. Any 4 or all of the above

File Description	Documents
Paste the web link of annual reports of the Institution	https://nandhaengg.org/6-5-3/
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

- **For the welfare of girl students and female faculty members, Women Development Cell was established in the year 2012.**
- **Mechanical department along with National Commission for Women (AICTE) conducted a program that focused on the study of gender equality, and existing laws relating to women.**
- **WDC joins hand with NGOs functioning in and around the area to encourage the development of women.**
- **The Women Achievers are being specially awarded with KALKI AWARD on International Women's day every year.**
- **Fees Concessions are provided to the girl students those who are willing to join in core programmes like mechanical and Civil.**
- **Counsellor has been appointed by the college for assessing the regular activities of the girls and to identify their problems and help them to settle down their issues.**
- **Protective and secure rooms have been allocated to ensure good health and hygiene of the students.**
- **To reduce the burden of women employees and to take care of their wards, child care system has been implemented in association with a nearby play school.**
- **Surveillance cameras are installed in the campus for monitoring student's movements**
- **The security personal is deployed across the college premises for any kind of security issues and offers strict vigilance**

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	https://nandhaengg.org/7-1-1/

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy   Biogas plant Wheeling to the Grid   Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment

A. Any 4 or All of the above

File Description	Documents
Geotagged Photographs	[View File](#)
Any other relevant information	[View File](#)

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

Solid Waste Management:

- Garbage bins are kept in the campus to collect solid waste.
- Biodegradable organic wastes are subjected to the composting process.
- Vermicompost pit has been constructed on a scale of 9x3x3 feet near Crop and Animal Husbandry Laboratory. The obtained organic manure is used for cultivation.

Liquid Waste Management:

- Sewage Treatment Plant with purification capacity 2, 00,000 litres per day has been installed near Boys Hostel. The recycled water is used mainly for gardening.

E-waste Management:

- Electronic goods are put to optimum use;
- The waste compact discs and other disposable non-hazardous items are used by students for decoration during college fests.
- The Computer maintenance team identifies the e-waste that is accumulated in all departments and stores them in a specified place. The collected e-waste is sold to the proper agency for recycling.

Bio medical Waste management:

- In the department of bio medical engineering, used needles and sharps are destroyed using an Sharps and Needle destroyer.
- Yellow bins are placed inside the campus to collectBio waste materials.
- Handling of Hazardous Chemicals and radioactive wastes
- Students and faculty members are instructed to use chemicals by following the standing operating procedures like handling chemical with face mask and gloves etc.,

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	View File
Geotagged photographs of the facilities	View File
Any other relevant information	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus **A. Any 4 or all of the above**

File Description	Documents
Geotagged photographs / videos of the facilities	View File
Any other relevant information	View File

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows: **A. Any 4 or All of the above**

1. Restricted entry of automobiles
2. Use of bicycles/ Battery-powered vehicles
3. Pedestrian-friendly pathways
4. Ban on use of plastic
5. Landscaping

File Description	Documents
Geotagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	View File
Any other relevant documents	View File

7.1.6 - Quality audits on environment and energy undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:

A. Any 4 or all of the above

1. **Green audit**
2. **Energy audit**
3. **Environment audit**
4. **Clean and green campus recognitions/awards**
5. **Beyond the campus environmental promotional activities**

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	View File
Certificates of the awards received	View File
Any other relevant information	View File

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.

A. Any 4 or all of the above

File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	View File
Details of the software procured for providing assistance	View File
Any other relevant information	View File

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

- **The Institution provides an inclusive environmentby advocating tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities.**
- **A clubs like NSS, Road Safety, YRC, Tree plantation, etc are included in the curriculum under Personality and Character Development (PCD) course.**
- **The institute maintains complete transparency from the enrollment to the graduation and admissions are done only on merit.**
- **Students Grievance Redressal Cell is constituted to address the grievances of the students to maintain harmony.**
- **Regular visits are arranged to Orphanages and Homes for Aged to strengthen values of love and compassion.**
- **The Institution celebrates regional and national festivals and birth anniversaries of leaders through cultural programmes and oratorical sessions.**
- **English is utilised asmedium of teaching in all the classrooms.**
- **To enable the students to work across the world, the other foreign languages like German, Japanese and Hindi have been taught.**
- **The students and the faculty of all the communities and religions are a part of this temple of learning which shows that the institute strives to provide conductive environment for all.**
- **To overcome the socioeconomic barriers, the institute has facilitated the students to receive the following scholarships: 5,300 BC/MBC scholarships, 1,238 SC/ST scholarships, 6,010 first graduate scholarships.**

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

The value of Human was realized more specifically during pandemic period and it became essential to create awareness about corona virus, and as an initiation social cause pamphlets were created and uploaded in social media.The various programs organized are:

1. NSS unit of the institution conducts a cleanliness drive to mark the occasion of Swachh Bharat Abhiyan in the nearby village areas.
2. Environmental awareness programs are conducted
3. Awareness camps - For girl students and female faculty, awareness on polycystic ovaries.
4. The Blood Donation Camp (Nandha's Uyir thuli) was conducted by the NSS Club of Nandha Engineering College jointly with Lion's Blood Bank, Erode
5. Courses like Essentials of Indian Traditional Knowledge and Constitutions of India were added to the curriculum
6. Village cleaning programs were organized under NSS club made our students to understand their responsibilities.
7. During natural disasters(Kerala flood relief mission, Gaja cyclone relief fund raiser activity), students are permitted to collect funds/ materials and distribute them to the affected people
8. Few department students have visited orphanage and old age homes and provided the fund which they collect from faculty, staff and students
9. As a Tribute to General. Bipin Rawat, students of Nandha Engineering College mourned and observed 2 minutes silence

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	View File
Any other relevant information	View File

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized

A. All of the above

File Description	Documents
Code of Ethics - policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	View File
Any other relevant information	View File

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

Every year legal awareness programmes are organized to educate students to know about the fundamental rights and duties.

During National Youth day, all the participants are taking oath every year. National flags are distributed to faculty, staff and students to instil sense of pride amongst them.

Independence and Republic are celebrated every year and the students have been participating in various events depicting the different cultures of our country.The student staff and alumni participate and rejoice during this celebration with great patriotic fervour.

The Institution commemorates the birth / death anniversaries of great Indian personalities like Dr.A.P.JAbdul Kalam, Dr. Babasaheb Ambedkar, Chatrapati Shivajimaharaj, and Mahatma Gandhi.

During Teachers day, the students' of all the departments puts up

a show to express their love and gratitude for their teachers.

Engineers' day is being celebrated every year and the departments are conducting various technical events like seminars and symposiums.

International Yoga day is celebrated and faculty and students are performed Yoga.

Women's day is celebrated on International Women's day i.e. March 8 to show respect towards women in all the efforts taken by them

To pay due respect to the sacrifices of our Indian soldiers, Kargil Day has been celebrated.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	View File
Geotagged photographs of some of the events	View File
Any other relevant information	View File

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

1. In - House Companies

In - house companies draw the attention of the students as it provides industrial platform during their academic tenure. Nandha Engineering College aims to bridge the gap between industry and academia.All placement willing students are allowed to attend In - house company interview from II year onwards. Through i GEN, around 20 students are getting placed every year. The details are as follows:

Year No.of students fot placed 2021 33 2022 23

2. Personality and Character Development (PCD)

Development of the all-rounded individual is the principal goal of PCD in colleges. PCD aims to develop character with competence and

also emphasizes on invoking hidden skills which are very vital to deal with the current scenario of challenging competitions. All students should enroll in any one of the personality and character development program and attend 30 hours of activities.

1. National Service Scheme (NSS)
2. Sports Club
3. Youth Red Cross (YRC)
4. Tree Plantation Club
5. Road Safety Club
6. Music club
7. Photography Club
8. Trekking Club
9. Fine Arts Club

File Description	Documents
Best practices in the Institutional website	https://nandhaengg.org/7-2-best-practices/
Any other relevant information	https://nandhaengg.org/wp-content/uploads/2022/03/7.2-Best-Practices.pdf

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

To ensure Innovation as a prime kingpin, the following platforms is introduced to build the culture of innovation and to transform dream ideas into reality.

- Institution's Innovation Council (IIC)

- Centre for Innovation and Product Development (CiPD)

- Business Incubator (BI)

Ranking

IIC of Nandha Engineering College has been awarded five star and four star rating by the Ministry of Education (MoE) for innovation and startups for the year 2019-2020 & 2020-2021 respectively.

Grants

BI of NEC has been funded with Rs.15 lakh for the idea Roll and Pull Uprooting Machine.

Patents and Copy rights

21 patents and 30 copyrights have been obtained by faculty and students

Product Launch-

- Automatic Sanitizer Dispenser and Automatic Hand Sanitizer developed by Mr.M.Seenivasan, AP/ ECE and Mr.R.K.Boopesh of II ECE
- Automatic Alert for Sleepy Drivers was done by Mr.S.Premnath, Ms.R.Dhivyarani and Mr.L.Mohanasundar of IIEEE through CiPD
- Automatic Seed Sowing Farobot Using Arduino was developed by Jobin Joseph, A.J.Arsha, C.M. Drishya and P. Nayana of II Agriculture Engineeringto overcome the problem of labour shortage.
- Solar Inverter developed by Mr. M.Arunprasath, Mr. P.S.Karthickh Raghunath, Mr. S.Kavin Kumar and Mr. K.C.Santhosh of III EEE with the guidance of faculty members Mr.S.Prabhakaran, AP/EEE and Mr.P.Krishnagandhi,AP/EEE.

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

Curricula and syllabi are devised by obtaining inputs from the stakeholders and subject experts. The suggestions are reviewed by the Chairman of BoS and the recommendation is incorporated and the framed curriculum is submitted for BoS approval. Standing Committee consolidates the inputs and submits to Academic council which scrutinizes and approves the proposals of BoS with regard to academic regulations, curricula, syllabi and modifications. Curriculum, COs, POs and PSOs are evaluated by the PAC and DAB Members.

OBE

OBE is being followed since 2015-16. Keeping OBE in forefront, changes in regulations, inclusion of open electives and embedded courses are made besides introducing add/drop courses for students to study the courses in advance and to pursue internships.

CBCS

CBCS is adopted since 2015-2016 to provide freedom to students to select courses which enable them to learn at their own pace, undergo additional courses, acquire additional credits and adopt an interdisciplinary approach to learning

Curriculum on National, Regional and Global Developmental Needs

To promote global competencies and to resolve environmental, ethical and social issues courses like Soft Skills, Employability Enhancement and Analytical Skills and club activities are offered. Lifelong learning is promoted through Value added Courses, Open Electives, online courses and MoUs.

File Description	Documents
Upload additional information, if any	[View File](#)
Link for additional information	https://nandhaengg.org/curriculum-development/

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

14

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	[View File](#)
Details of syllabus revision during the year	[View File](#)
Any additional information	[View File](#)

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

410

File Description	Documents
Curriculum / Syllabus of such courses	[View File](#)
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	[View File](#)
MoUs with relevant organizations for these courses, if any	[View File](#)
Any additional information	[View File](#)

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

49

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

15

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

Nandha Engineering College endeavors to inculcate ethics and values in students to make them better citizens. Curriculum includes courses pertaining to Professional Ethics, Gender, Human Values and Environment and Sustainability. As a supplement of this, the Institution organizes Seminars and Awareness Programs etc, that helps in integrating cross-cutting issues.

Professional Ethics & Human Values

The curriculum encompasses courses that address Professional Ethics and human values such as, Professional Ethics and Human Values, Personality and Character Development, Ethics and Cyber Security, Inter Personal Values, etc., These courses instill ethical norms and basic values necessary for the human beings. Besides, the Institution offers yoga classes for the wellbeing of the students.

Gender Equity:

The Institution fosters gender equity by providing equal opportunities for both the genders. The Institution designates women students and faculty members in various positions to empower them. Women Development Cell and Anti Sexual Harassment Cell is constituted to promote social respect, safety and self-dignity of women.

Environment and Sustainability:

Energy conservation in buildings, Industrial Wastes Treatment and Disposal, Waste Management, Renewable Energy Technology, etc., make students aware of the problems that are threatening the Environment and enable them to probe into the causes and remedial measures for environmental issues.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	View File

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

20

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	View File
Any additional information	View File

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

945

File Description	Documents
List of students enrolled	View File
Any additional information	View File

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

1658

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	View File

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni	**A. All 4 of the above**

File Description	Documents
Provide the URL for stakeholders' feedback report	https://nandhaengg.org/curriculum-feedback/
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File
Any additional information	View File

1.4.2 - The feedback system of the Institution comprises the following	**A. Feedback collected, analysed and action taken made available on the website**

File Description	Documents
Provide URL for stakeholders' feedback report	https://nandhaengg.org/curriculum-feedback/
Any additional information	View File

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

634

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)

516

File Description	Documents
Any additional information	View File
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

Response:

Learning Level Assessment:

The college has a transparent mechanism to identify the learning levels of the students based on their academic performance. Student's learning levels are assessed by the Proctors and Academic Coordinators based on the performance in Continuous Assessment Tests and End Semester Examination results. To maximize the skill based education and to enhance student's learning outcomes, the college provides pathways for learning opportunities.

Slow learners

Students are identified as slow learners and adequate support

are provided to overcome academic difficulties by arranging video presentation, additional coaching classes and practice assignments.

Students those who failed in analytical subjects are identified, particularly in Mathematics, special coachingclasses are conductedduring week ends.

Fast learners

The institution encourages high performers to participate in competitions, the students are encouraged to participate in National and International level competitions, conferences and Seminars. Further students are motivated to exhibit their ideas as projects in various events like Project expo, Ideathon, Hackathon, etc.

Advanced learners are allowed to take additional courses by choosing Open Electives and Professional Electives from the second year of study. Besides, the students can study one credit courses offered by industry experts and Add on course during the week ends.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://nandhaengg.org/2-2-1/

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
Nil	2819	225

File Description	Documents
Upload any additional information	View File

2.3 - Teaching- Learning Process

2.3.1 - Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:

Nandha Engineering College has applied student-centric learning to promote Outcome-Based Education (OBE) through experimental, participative, and problem-solving methodologies. Effective Teaching Learning Process is achieved through regular course delivery to attain and to improve COs, POs & PSOs used for different level of students.

EXPERIENTIAL LEARNING

PBL/RBL (Project Based Learning/Research Based Learning

One Credit Courses

Summer Internship

Industry Visits

Guest Lectures, Seminar, Conference & Workshops

- As a part of academic development, Guest lectures, Career Oriented Lectures, Seminar, Conference and workshops are arranged by all Departments Association throughout the year.
- Through the association, the students are encouraged to attend Seminars and present papers in other reputed institutions.

PARTICIPATIVE LEARNING

Professional Society

Club Activities

PROBLEM SOLVING METHODOLOGY

Projects that solve the problems of social relevance.

- Real time assignments and case studies enable the students to provide the solutions for real world problems.
- Students apply the theoretical Knowledge in Laboratory classes to solve specific problems.
- Case study methodology enhances students problem-solving

techniques

- **Collaborative learning model is adopted to enhance problem solving skills Simulation tools and Virtual labs are effectively used to provide hands on experience to students in analytical/ Problem Solving approaches**

File Description	Documents
Upload any additional information	[View File](#)
Link for additional Information	https://nandhaengg.org/2-3-1/

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

Response

Faculty members in the institution use Information and Communication Technology (ICT) tools very effectively to enhance the teaching-learning process among the students by creating interest in live concepts.

ICT TOOLS

- **Projector**
- **Examly software**
- **Presentation Software**
- **Mic**

Infrastructure

- **Laboratories, Classrooms, Seminar halls, Conference Rooms, Auditoriums, and Hostels are enabled with Wi-Fi internet facility with a bandwidth of 500 Mbps, which provides space for the students to learn from e-resources to update their skills.**

Digital Library

Nandha Engineering Central Library (NECL) is fully automated and specially designed to motivate the learning skills of students community. The library has a unique website in the name NECL.

Examly

- **Nandha Engineering College uses Examly Software that provides learning contents, practice exercises and assessments to teach programming courses for improving the programming skills of students.**
- **End Semester Practical Examinations for Programming Languages, Placement Training Tests and One mark Online Tests are conducted through Examly Software**

E-resources

- **The e-resources like DELNET, INFLIBNET, NLIST, NDLI, ShodhSindhu, ShodhGanga, etc. are used.**

Web Links

The following links are provided for describing ICT enabled tools for effective teaching and learning process:

https://new.edmodo.com/groups/15cs701-principles-of-cloud-computing-304393390

Name of the e-content development content

https://www.youtube.com/watch?v=iPIOY1VqP-M

http://www.nandhaengg.org/images/cse/Ball_Game.pdf

Youtube Link

https://youtube.com/channel/UC7lLbSzZfIPqNWiuRFa38Mg

https://youtube.com/channel/UCxc3N_WO4vjYKqXObjtVoEQ

https://youtube.com/channel/UCMOXbLyDoiKbpxhAcxYaVxQ

https://youtube.com/channel/UClZeKuk4wwaZolVi7Uehi4A

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://nandhaengg.org/4-3-4-econtent/
Upload any additional information	View File

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

168

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

Academic Calendar

Academic calendar is prepared in discussion with the Principal, Controller of Examinations, Deans and Heads of the Departments. It is prepared well in advance for each semester of every academic year for all the years and it is circulated to the faculty members and students. A timeline for completing the syllabus and conducting the Internal and End Semester exams is suggested in the Academic Calendar. It provides adequate balance between academic and non-academic activities. It includes all important details such as commencement of classes, Parent teacher meetings schedule, Project review dates, assignment submission dates, Class committee meeting information, Academic Audit schedule, Submission of Continuous Assessment Test marks, Internal marks and Tentative date for End Semester Exam both theory and Practical, Public holidays, Festival breaks in addition to the College fests etc., Few activities are deviated due to unavoidable reasons like placement drives, declaration of holidays by the Government / Local authority.

Course Plan

Curriculum and Syllabi is developed in BoS meeting and the same is approved in Academic Council Meeting. T Before commencement of every Semester, Heads of the Department conducts a meeting with their faculty members to allocate the subject for both theory and laboratory.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	[View File](#)

2.4 - Teacher Profile and Quality

2.4.1 - Number of full-time teachers against sanctioned posts during the year

225

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	[View File](#)
List of the faculty members authenticated by the Head of HEI	[View File](#)
Any additional information	[View File](#)

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

55

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	[View File](#)
Any additional information	[View File](#)

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

1583

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	[View File](#)
Any additional information	[View File](#)

2.5 - Evaluation Process and Reforms

2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year

19

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	[View File](#)
Any additional information	[View File](#)

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

0

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	[View File](#)
Upload any additional information	[View File](#)

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

Processes integrating IT

- **Introducing of master course from academic council data form syllabus.**
- **Registration of students for Regular courses.**
- **Generate examination application form.**
- **Record of question paper bank and Valuer by Head of the Department (HoD).**
- **Preparation of Continuous Assessment Test Time table**
- **Semester examination Question Paper setter and valuation entry by HoD**
- **Question Paper setting order sent by Controller of Examinations (CoE)**
- **Preparation of Examination Gallery report.**
- **Publication of Exam Time table through web portal.**

- **Examination seating arrangement in software and display for student view.**
- **Semester Exam Invigilation duty assignment and order printing**
- **Examination Valuation order mailed.**
- **Valuation mark entry and printing of Hardcopy of Grade sheet.**
- **Generation of valuation claim bill and sent through online.**
- **Result published in college website on the same day of Result Passing Board**
- **Applying for Revaluation and Retotalling.**
- **Revaluation result published in college website**
- **Award list is prepared and sent the same to University for issuing Provisional certificate and DegreeCertificate**
- **Printing of Grade sheet, Consolidated Mark sheet for issuing to students.**

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	https://nandhaengg.org/wp-content/uploads/2022/03/2.5.3_NEC_ADDL-1.pdf

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

The learning effectiveness of any program and course depends on the POs and Course Outcomes (COs). The PEO, PSO and PO are displayed at various prime locations in the institute premises and is also available on the website to make faculty members and students aware about the PO, PSO and PEO. In order to make students aware about Course Outcomes (COs), the department had mentioned COs in the syllabus of the respective courses.

The Program Outcomes, Program Specific Outcomes are helpful in developing the framework of teaching and learning. The Course outcomes facilitate in clear understanding about the course expectations and also support the process of learning. The Course outcomes also present a clear picture of employability, skill development and entrepreneurship prospects of the course.

Process of Dissemination:

- **College Website – www.nandhaengg.org**

- **Dissemination to the internal stakeholders**

Displayed in all prominent places of department such as HoDs chamber, Department notice board, Faculty rooms, Classrooms, Library, Hostel, Laboratories and Newsletters.

- **Communicated to students before starting of the course.**
- **Dissemination is ensured by proctors during the proctor meeting.**

- **Dissemination to the external stakeholders**

Discussed in BoS meeting, Parents meeting, included in the funding agency sponsored Seminar/Workshop proposal brochures, and Alumni meet.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	[View File](#)
Upload any additional information	[View File](#)
Link for additional Information	https://nandhaengg.org/wp-content/uploads/2022/03/2.6.1_NEC_ADDL.pdf

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

CO Assessment Processes:

To identify the extent of compliance of the curriculum for attaining the POs and PSOs different processes or methods are adopted through direct and indirect assessment methods.

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

- **Continuous Assessment Test (CAT)**
- **Assignment**
- **Online Test**
- **End Semester Examinations(ESE)**
- **Project evaluation**

Indirect assessment is done by conducting

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

The attainment levels of the COs, POs and PSOs are very important parameters for the OBE system. This helps in creating an academic environment for achieving excellence. The efficiency and effectiveness of the process is continuously monitored, assessed and improved by taking inputs from the discussion/suggestion/decision taken in the meetings of the Department.

Assessment of COs for Theory and Laboratory courses:

The Assessment of COs for Theory courses are based on

- CAT
- Assignments
- Online Tests
- ESE

Laboratory courses' outcomes are evaluated based on

- Continuous Monitoring of regular Laboratory Classes,
- Model Examination.
- .ESE

Direct Attainment Calculation:

Direct Attainment for Theory= 0.6* ESE + 0.3*CAT + 0.05*Assignment + 0.05*Online test

Direct Attainment for Laboratory= 0.5*ESE + 0.5*(CAT+Model)

Overall Attainment = 80% of Direct Attainment + 20% of Indirect Attainment

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://nandhaengg.org/2-6-student-performance-and-learning-outcomes/

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

828

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	View File
Paste link for the annual report	https://nandhaengg.org/wp-content/uploads/2022/03/2.6.3_NEC_AADL.pdf

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink

https://nandhaengg.org/wp-content/uploads/2022/04/SSS-2020-2021.pdf

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

The strength of the research initiatives is that they confirm to establish norms and standards for ethical conduct of research. The well-defined research policy has been displayed on college website.

R & D Cell

The R & D Cell keeps a constant check on the calls for proposals and encourages faculty members to submit proposals to government and non-government funding agencies. Research proposals must go through a multi-tiered review process that includes the research and development committee and the research ethical committee.

Research Laboratories:

The institution has been 3 research centres offering Ph.D programmes in different disciplines they are Computer Science and Engineering (CSE), Electronics and Communication Engineering (ECE) and Mechanical Engineering (Mech). The institution has received research funds to set up laboratories Fuel Cell Research Lab and Nano Research Lab, under the scheme of AICTE AQIS RPS and constructed Cloud Base Virtual Computing for Open Source Software Teaching and Research Laboratory under the scheme of AICTE- MODROB.

Library:

The institution maintains a highly stacked library for research reference. The digital library has 200 IEEE access, 2952 JGate, and 235 DELNET Pro-quest online journals, 8820 e-books, 31,535 Audio Visual courses, and 9202 Conference Proceedings with back volumes.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	https://nandhaengg.org/research-activities/
Any additional information	View File

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

1.7

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	View File
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	View File
Any additional information	View File

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

26

File Description	Documents
e-copies of the award letters of the teachers	View File
List of teachers and details of their international fellowship(s)	View File
Any additional information	View File

3.2 - Resource Mobilization for Research

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

16.745

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	View File

3.2.2 - Number of teachers having research projects during the year

2

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://nandhaengg.org/research-activities/
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

1

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

1

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	https://nandhaengg.org/research-activities/
Any additional information	View File

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

Centre for Innovation and Product Development (CiPD)

CiPD plays a vital role in inviting innovators, researchers, successful startups/entrepreneurs from varied fields to share their experience to benefit students/faculty members. CiPD aims to build an interdisciplinary networks/teams and facilitate to impart the subtle aspects of innovation, IPR, startups and entrepreneurship.

Business Incubator:

Nandha Engineering College was approved as a Host Institution (HI) by MSME, Government of India in the year 2018. So far, 10 products have been launched; benefitting various sectors of the society. Our BI has received a funding of Rs.15lakhs under "Support for Entrepreneurial and Managerial Development of MSMEs through Incubators scheme" for product development.

Institution's Innovation Council (IIC):

IIC at Nandha Engineering College was started in the year 2018 with major focuses such as work on new ideas and innovation, create complete innovation ecosystem, conduct various innovative and entrepreneurship-related activities, reward innovations and share success stories, organize periodic workshops/seminars and network with entrepreneurship development organizations.

Entrepreneur Development Centre (EDC):

EDC Cell has been organizing various entrepreneurial

promotional programs to transform students into entrepreneurs once creating entrepreneurial awareness among them with funding supports from agencies like DST-NIMAT, Department of Science and Technology(DST), Ahmedabad, etc.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://nandhaengg.org/wp-content/uploads/2022/03/3.3.1_NEC_ADDL.pdf

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

95

File Description	Documents
Report of the events	[View File](#)
List of workshops/seminars conducted during the year	[View File](#)
Any additional information	[View File](#)

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software	**A. All of the above**

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	View File
Any additional information	View File

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

17

File Description	Documents
URL to the research page on HEI website	https://nandhaengg.org/research-activities/
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	View File

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

0.28

File Description	Documents
List of research papers by title, author, department, and year of publication	View File
Any additional information	View File

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

0.54

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://nandhaengg.org/wp-content/uploads/2022/03/3.4.4.nec_additional-information-1.pdf

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

245

File Description	Documents
Any additional information	[View File](#)
Bibliometrics of the publications during the year	[View File](#)

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

20

File Description	Documents
Bibiliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	[View File](#)
Any additional information	[View File](#)

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

6.125

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	View File
Any additional information	View File

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

22.86726

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View File
List of training programmes, teachers and staff trained for undertaking consultancy	View File
List of facilities and staff available for undertaking consultancy	View File
Any additional information	View File

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

Response:

The Nandha Engineering College organizes several extension activities to uplift the institute-neighborhood community to sensitise the students towards community needs. Extension programmes like NSS, YRC, Rotaract Club, Tree Plantation Club, and Road Safety Club to encourage students to participate in community building processes.

National Service Scheme (NSS):

The NSS of Nandha Engineering College has undertaken several extension activities for the benefit of society. NSS organizes a seven-day residential camp in nearby villages and addresses the significance of social issues.

Rotaract club:

Our institution encourages student participation in community service through Rotaract club. Programmes like planting saplings, visiting old age homes and orphanages, clean India activities and dengue awareness programmes were arranged.

Personality and Character Development:

The institution has vibrant clubs such as Organic Forming Club, Tree Plantation Club, Road Safety Club, and YRC, which have been made an integral part of the curriculum to encourage students to participate in community building processes. Students can learn about social responsibility by participating in these clubs.

Innovation Day and Career Guidance Programme:

We host an innovation day to exhibit the various projects and share their ideas with the public and school students. This initiative promotes innovative ideas among school students.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://nandhaengg.org/personality-and-character-development/

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

6

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	View File
Any additional information	View File

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

11

File Description	Documents
Reports of the events organized	View File
Any additional information	View File

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

692

File Description	Documents
Reports of the events	View File
Any additional information	View File

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

264

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	View File

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

9

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	[View File](#)
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	[View File](#)
Any additional information	[View File](#)

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipments, etc.

Nandha Engineering College (NEC) covers a boundary of 25 acres with a 4,43,234 sq. ft area. All the classrooms (63 Nos) are equipped with LCD/LED Projectors/Smart TVs, Personal Computers, and Wired/Wireless Internet connectivity. The Infrastructure includes 4 drawing halls of 4300 sq.ft, 3 Seminar halls of 2680 sq.ft and an Auditorium of 5655 sq.ft spanning across 9 blocks. NEC is equipped with 58 laboratories with state of the art facilities. Industry Sponsored laboratories in collaboration with the leading industries and funding agencies have been established. Nandha Central Library with 10,800 sq.ft has 61,555 Volumes, 19,263 Titles, 96 International Journals, 102 National Journals in addition to 77 Technical Magazines and 32 General Magazines. A total number of 1,163 computers, 72 printers and 10 scanners are available. The Institution establishes Industry Supported Labs by signing MoUs with leading industries. The Learning Management System of NEC includes Google Classroom, Smart Nandha, an online intra campus management system and AI powered learning and assessment tool named EXAMLY.The College's Centre for Innovation in Product Development (CiPD) has a built-up space of 2,448 square feet. The college has a robust transport system with a fleet of 40 buses operating from our campus.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://nandhaengg.org/wp-content/uploads/2022/03/4.1.1-Index-New.pdf

4.1.2 - The institution has adequate facilities for cultural activities, yoga, sports and games (indoor and outdoor) including gymnasium, yoga centre, auditorium etc.)

Response:

Department of Physical Education

The college provides first-rate facilities for indoor and outdoor games. The College also conducts Annual Sports Meet. In addition to team games, individuals have excelled in College and University level sports and in Athletic events.

Indoor Auditorium

The auditorium is located at the backside of Block 5 in a spanning area of 24,000 sq.ft.

Yoga

A spacious hall is maintained for doing Meditation and Asanas. The College, with the aid of Erode Manavalakalai Mandram Trust, offers yoga classes for all the students and staff members. Trained full time yoga teachers are available to teach yoga.

Open Air Theater

The institute comprises two open air theaters with a seating capacity of 2,500 and 1,200 respectively.

ATM

A well maintained 24x7 ATM with CCTV surveillance is positioned near the main gate to focus on basic bank transactions.

Gymnasium

The significance of the gym is, it is in-door and stretches across a large area. This in-door unit is separate for boy and girl users.

Medical Facilities

Tie-ups have been established between the Institute and Nandha Medical College Hospital, as well as between the Institute and Krishna Medical Center, Perundurai.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	View File
Paste link for additional information	https://nandhaengg.org/wp-content/uploads/2022/03/index-4.1.2.pdf

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

63

File Description	Documents
Upload any additional information	View File
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

60.58

File Description	Documents
Upload audited utilization statements	View File
Details of Expenditure, excluding salary, during the years	View File
Any additional information	View File

4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS)

Nandha Engineering Central Library (NECL) is fully automated. It functions in a three- storey building with an area of 1080 square feet. The Library has a collection of books around 61,144 volumes and 19,040 titles. For the periodical section, the Library subscribes to 198 International and National print journals, as well as 77 Technical Magazines and six daily newspapers (English papers alone).

The air-conditioned digital library is implemented with 32 desktop and 20 Laptop usable desks for accessing 200 IEEE, 2952 JGate, 130 ProQuest online journals, 8820 e-books, 31,535 Audio Visual courses and 9202 Conference Proceedings with back volumes. These can be accessed inside the campus on 24/7 basis via Wi-Fi and also through remote access by using User name and Password for IEEE and J-Gate. There are 3005 e-Books, 852 e-Journals and e-Magazines as CDs, DVDs and VCDs. It also includes more than 292 NPTEL courses for teaching and learning purposes.

Name of the Software - Campes - i Lib : The Digital Librarian

Nature of automation - Fully Automated with Barcode tag

Version - 7.0.2

Year of automation - 2006

. The library has procured unavailable and rare books by using membership with Developing Library Network (DELNET).

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://nandhaengg.org/4-2-1/

4.2.2 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources	A. Any 4 or more of the above

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	View File
Upload any additional information	View File

4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)

21.04

File Description	Documents
Audited statements of accounts	View File
Any additional information	View File
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

790

File Description	Documents
Upload details of library usage by teachers and students	View File
Any additional information	View File

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

The Institution has designed its own maintenance policy procedure that includes several methods to achieve the effective maintenance of physical, academic and other facilities.

Methods

Effective maintenance is being achieved by using the following methods.

1. Reformation site

2. Class Committee Meetings

3. Periodical visits by the supervisors concerned

4. WhatsApp group

MAINTENANCE SECTION

A centralized maintenance section, headed by a maintenance manager and supported by skilled technicians such as electricians, plumbers, carpenters and masons is in practice.

1. Physical Facilities

Electrical Maintenance

Building Maintenance

Furniture Maintenance

Network / Wi-Fi Maintenance

2. Academic Facilities:

Library

Laboratories

Classrooms

? The Institute has an RO plant that provides 24X7 drinking water facility.

? Surveillance Cameras are fixed in and around the Campus for security purposes and they are maintained by the system administrators.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://nandhaengg.org/4-3-1/

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
2819	926

File Description	Documents
Upload any additional information	[View File](#)

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus

A. ?50 Mbps

File Description	Documents
Details of bandwidth available in the Institution	[View File](#)
Upload any additional information	[View File](#)

4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing

A. All four of the above

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://nandhaengg.org/4-3-4-econtent/
List of facilities for e-content development (Data Template)	[View File](#)

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

98.28

File Description	Documents
Audited statements of accounts	View File
Upload any additional information	View File

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities – classrooms, laboratory, library, sports complex, computers, etc.

The Institution has designed its own maintenance policy procedure that includes several methods to achieve the effective maintenance of physical, academic and other facilities.

Methods

Effective maintenance is being achieved by using the following methods.

1. Reformation site

2. Class Committee Meetings

3. Periodical visits by the supervisors concerned

4. WhatsApp group

MAINTENANCE SECTION

A centralized maintenance section, headed by a maintenance manager and supported by skilled technicians such as electricians, plumbers, carpenters and masons is in practice. This section takes care of the maintenance of infrastructural facilities that include plumbing, electrical, carpentry, masonry and sewage works. The section receives maintenance requirements from the departments and other sections and undertakes the necessary work following internal operating procedures under the directions given by the supervisors concerned, without disturbing the regular activities.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://nandhaengg.org/system-and-procedure-for-maintaining-and-utilizing-physical-academic-and-support-facilities/

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

1766

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	[View File](#)
Upload any additional information	[View File](#)

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

1005

File Description	Documents
Upload any additional information	[View File](#)
Institutional data in prescribed format	[View File](#)

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology	**A. All of the above**

File Description	Documents
Link to Institutional website	https://nandhaengg.org/capacity-development-and-skills-enhancement/
Details of capability development and schemes	View File
Any additional information	View File

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

2063

File Description	Documents
Any additional information	View File
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees	**A. All of the above**

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	View File

5.2 - Student Progression

5.2.1 - Number of outgoing students who got placement during the year

413

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File

5.2.2 - Number of outgoing students progressing to higher education

37

File Description	Documents
Upload supporting data for students/alumni	View File
Details of students who went for higher education	View File
Any additional information	View File

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

36

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	View File

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year

7

File Description	Documents
e-copies of award letters and certificates	[View File](#)
Any additional information	[View File](#)

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

Students Association:

Each department has its own association to accomplish students' technical abilities. The Secretary, Joint Secretary, Treasurers, and Executive members are elected by the student members to carry out the association activities to update emerging technologies and bridge the gap between industry and institute.

Class Committee:

The Class Committee Meeting provides a place for students to discuss their issues related to teaching – learning process. The meeting will be held twice a semester and will include the Convener, Chairperson, and a maximum of eight students who will represent the entire class. The complaints will be resolved and the action being taken will be updated in the reformation portal.

Women Development Cell

Women Development Cell has both the faculty and students of the College as its members and works with an aim to create a gender sensitized community. It has been organizing varied programs and International Women's Day to honor Women achievers with Kalki Award.

Clubs:

Various clubs are formed to maintain mental and physical fitness for the betterment of the students. The students in Cultural, Fine arts, Music, Photography, Sports, Road safety, Tree plantation and Trekking clubs are involved in various activities to build character, leadership and management qualities.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://nandhaengg.org/personality-and-character-development/

5.3.3 - Number of sports and cultural events / competitions organised by the institution

17

File Description	Documents
Report of the event	View File
List of sports and cultural events / competitions organised per year	View File
Upload any additional information	**No File Uploaded**

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

Alumni Association:

Nandha Alumni Association has been registered as "Nandha Poriyiyal Kalluri Munnaal Maanavargal Sangam" (Sl. No. : 100 / 2014) dated on 4th December 2014. It is envisioned and formed as a lifetime global platform which facilitate faster communication among the alumni members and provide an opportunity to "Learn, Leap and Lead" throughout their life.

NEC Alumni in all over the world who have enrolled in the college Vaave web portal. The "My Alumni Network" is the Mobile App powered by Vaave that allows Alumni, Students, Faculty members to access the institution's official alumni network on Mobile.

Alumni Association activities:

  - **To promote the Industry interface, placement / internship and outreach programmes.**

Reunion:

The Institution conducted Silver Jubilee Reunion during November 2018.

Mentorship Programs:

Alumni Connect – To interact with Students on Career Guidance.

Objectives:

- **Prepare the next generation Leaders and Entrepreneurs.**
- **Provide motivation and mentorship to guide in career path options.**

Benefits:

- **Develop leadership skills in potentials.**
- **Students can get exposure to recent trends in Industry.**

Participation of Alumni in Academic and Industrial Interaction:

- **Member in Board of Studies, Academic Council and Governing Body.**
- **Resource person for one credit courses.**

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	https://nandhaengg.org/alumni-at-nec/

5.4.2 - Alumni's financial contribution during the year	E. <2 Lakhs

File Description	Documents
Upload any additional information	[View File](#)

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

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.

Nature of Governance:

Activities like Academic, Initiating new programs, research centres, Choice Based Credit System, Relative Grading and Accreditation process are executed by involving all faculty members.

Governing Council:

The GC meets once in a year, ensures that all decisions on admission, budget, infrastructure, teaching-learning process, and placements are in line with the Institute's vision, mission, and quality policy.

Institute Quality Assurance Cell (IQAC):

The objective of IQAC is to build a structure for making deliberate action to progress the institution's academic and administrative performance.

Statutory and Non- statutory Committees:

Several committees are in place to manage activities related to planning evaluation, academics, placement, student centric activities, co-curricular and extra-curricular activities, Industry Institute Partnership.

Finance Committee: The committee is to ensure the financial resources and scrutinizes the budget and monitors utilization. The committee proposes the budget for the financial year of departments and institute.

File Description	Documents
Upload any additional information	[View File]()
Paste link for additional Information	https://nandhaengg.org/wp-content/uploads/2022/03/6.1.1-NEC-ADDL.pdf

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

Decentralization: Heads of the department are responsible for the academic and administrative matters of concern department. The head of the department allot the workload with the respective faculty based on their area of specialization. All academic activities are planned by faculty members at department level in line with college goals.

Participative management: Management conducts periodical review meetings to discuss about the department activities related to students and faculty. Students' performance related to Enrolment Ratio, Academic performance, Graduate outcome, Career guidance, Training and Placement, Industry visit, In-plant training, Internship and sports achievements are discussed. Faculty activities like Teaching Learning process, Development/Training programs, publication, copy right, patent are monitored. Department activities include Singing MoU, Stakeholder visit, planning and implementation of Strategic plan. Best performing departments are highly appreciated.

Institutional practices: The Value Added Course is initiated to the students to meet the gap between the Industry needs and Institutions Curriculum. Whole course execution is done by industry person. Various clubs are implemented for the overall development of the students.

Academic and Research: The institution follows some strategies in Governance, Teaching-Learning process, Quality and Ranking, R&D, faculty development, Student care and Stakeholder participation.

File Description	Documents
Upload strategic plan and deployment documents on the website	View File
Upload any additional information	View File
Paste link for additional Information	https://nandhaengg.org/wp-content/uploads/2022/03/Stratgeic-Plan-2016-2026.pdf

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

GLOBAL COMPETITIVENESS

- Strengthening of research publications
- Establishing Centre of Excellence (CoE)
- Revenue generation through consultancy works.
- Improving research activities by leveraging the grant-in-aid of external funding agencies
- Quality improvement through accreditation Introducing new programs

HIGH QUALITY TECHNICAL EDUCATION

- Active involvement of faculty in industry interaction
- FINE (Faculty Industry Education) Promoting culture of innovation, idea incubation and establishing
- Business Incubator Creating awareness about IPR for faculty and student members Encouraging filing of IPRs (Patent & Copyright

Centres for Excellence as Tool for Capacity Building of an Educational institution:

Nandha Engineering College has joined hands with IT company to establish the centres for excellence. In-house companies namely IGEN services & solution, Thulliam InfoTech Private limited, Entuple technologies Private limited, Virtusa are established inside the college premises. Centre for excellence offers training to the students from II year onwards. Students are selected on the basis of their academic performance. Our institution introduces new emerging subjects that are not

included in our curriculum as value added course such as VAC so
that students can complete this competitive world.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://nandhaengg.org/about-us-2/
Upload any additional information	View File

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from the policies, administrative set-up, appointment and service rules, procedures, etc.

Organization Structure: Management and the Governing Council
play an important role in academic decision-making,
administration, and the overall growth of the institution. IQAC
team plays a vital role to escalate and implement the decision
making and develops the projects suggested by the Secretary and
Correspondent.

Governing Council: The Governing Council is the final decision-
making body in all matters which is held once in a year. The
Governing Council makes all necessary efforts (including the
use of appropriate educational methods such as outcome-based
education, infrastructure, equipment, and tools) to create a
student-centric environment. The Governing Council monitors the
strategic plan on a continuous basis and provides appropriate
advice and direction to the administration for the
implementation and development.

Appointment and service rules: The committee members shortlist
the candidates through screening test, classroom demonstration
and interview. The committee shortlisted the candidates and
submit their recommendation to the principal and chairman and
if selected then the appointment letter is offered by the
chairman.

Statutory and Non- statutory Committees:

In addition to the Governing Council various statutory and non-
statutory committees are actively involving in the activities
which support the development of the college and students.

File Description	Documents
Paste link to Organogram on the institution webpage	https://nandhaengg.org/wp-content/uploads/2022/03/Organizational-Chart.pdf
Upload any additional information	View File
Paste link for additional Information	https://nandhaengg.org/hr-policy-3/

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination	**A. All of the above**

File Description	Documents
ERP (Enterprise Resource Planning) Documen	View File
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	View File

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

Growth in professional career:

- **Faculty is encouraged to attend conferences / workshops / Faculty Development Programmes and training programmes every year.**
- **Sponsorships to attend training programmes and present papers in conferences.**
- **To enhance the faculty skill set several Faculty development programs (FDP) are also organized.**
- **Internet and free Wi-Fi facilities are available in campus for staff.**
- **Permissions, Casual Leave, Medical Leave, Vacation Leave, OD facilities are provided to the faculties.**

General Facilities

- **The institution has sports, gym, and yoga facilities; the campus has ATMs**

Other Benefits

1. Group Insurance

2. Emergency advance

3. Sponsorship for Higher

4. Sponsorship to attend Seminar / Paper presentation / Conference

5. Sponsorship to attend quality improvement and faculty development programme 6. Revenue sharing by staff in consultancy / testing (60:40 and 40:60)

7. Free Lodging facility to staff members who are staying in hostels

8. Bank Loan facility at concessional interest rates through the Indian Bank

9. School fee concession in Nandha Schools.

10. Free transportation

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://nandhaengg.org/wp-content/uploads/2022/03/6.3.1_NEC_ADDL.pdf

6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

56

File Description	Documents
Upload any additional information	View File
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

36

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	View File

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

203

File Description	Documents
Summary of the IQAC report	View File
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

Internal Auditing & External Auditing Procedure :

The internal audit is conducted twice a year , to ensure the accuracy of bills and vouchers. The audit team meticulously

examines the income and expenditure bills and vouchers of the recurring and non-recurring expenses. The compliance report of internal audit is submitted to the management of the institution through Principal. If any discrepancy is found, the same is brought to the notice of the Principal to resdue it. The management team examines the audit report. The accounts department audits and approves the disbursement statements before they are submitted to the Principal.

The Chartered Accountant ensures that all payments are duly authorized after the audit and the report is sent to the management for review. Any queries, in the process of audit would be attended immediately along with the supporting documents. Finally, the audit statement and balance sheet will be prepared by the chartered accountant for the institute to provide transparency at all levels. The institution had not come across with any major audit objection during the preceding years. The audited statement is duly signed by the authorities of the management and chartered accountant.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://nandhaengg.org/6-4-1/

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

0.2

File Description	Documents
Annual statements of accounts	[View File](#)
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	[View File](#)
Any additional information	[View File](#)

6.4.3 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Mobilisation of Funds:

The Institution is poised to grow and make its mark in global scenario by providing requisite funds and optimal use of resources. Financial resources are mobilized by fee collected from the students and also generates funds from projects sponsored by government agencies and consultancy services. The fund is also mobilised through the alumni, placement fee, bus fee, book fee, exam fee, hostel fee and other miscellaneous charges.

Optimal utilisation of funds:

A constructive financial resource monitoring is done through the following procedures.

Before the commencement of every financial year, all the heads of the department instruct the concerned in-charges to provide the budget required for the upcoming academic year. The in-charges concerned provide both recurring and non-recurring expenses. The Head of the Institution submits a budget proposal that incorporates the above recommendations of all department heads within the Institution, to the management after getting approval from the finance committee of an organisation. The allocated funds are utilized properly as per the academic requirements.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	https://nandhaengg.org/6-4-3/

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

IQAC

The IQAC is led by the Principal, the Chairman of IQAC and consists of the following members: Director, IQAC Coordinator, all HODs, team of Senior Faculty Members, and a Placement officer.

Post Accreditation Improvements

The Institution becomes autonomous in the year 2013 and a choice-based credit system is established. Outcome-Based Education is administered as per AICTE-NBA. The college has received NBA Accreditation under Tier-I in the year (2021-2024) for 3 UG programs: CSE, IT & ECE in (cycle-IV); in the year (2016-2019) CSE & ECE (cycle-III), CIVIL (cycle-I).

Teaching -Learning

Student learning is assessed through Continuous Assessment Tests, Periodic Assignments, Quizzes and an End of Semester Examination administered during their direct and indirect assessment tools. Consecutively to sustain the quality standards, each procedure is meticulously scrutinized through a wide-range of testing tools.

Improvements during 5 years:

3 New programmes and 3 Research centres are initiated after procuring NBA accreditation under Tier-I. New courses like AI, Biomedical, Agriculture and Chemical Engineering are offered. Faculty retention ratio, Publications and Publications with annexure are increased. Recognised Research Supervisors can be seen. Also in-house labs are established.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://nandhaengg.org/6-5-1/

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

Committees for Quality Improvement:

Syllabus is an abstract or programme of knowledge. The Calibre of teaching can be procured only by means of interpreting the syllabus. Periodical modification of curriculum enriches the pedagogy. This process is monitored on continual basis by Institutional Quality Assurance Cell (IQAC) through Programme

Assessment Committee (PAC) and Department Advisory Board (DAB). Academic audits are periodically done for course file. Course Outcome, attainment process are reviewed recurrently.

Choice Based Credit System

The institution follows Choice Based Credit System (CBCS) and adopted the AICTE model Curriculum of 160 credits since 2018-19. The curriculum was designed by the faculty of the College following a lot of brainstorm sessions involving various stake holders including the current students undergoing the programme. The students were given more lab/practice-based courses. To expose the students to global learning methods and learn the human skills to reflect upon societal needs, few new courses such as universal Human Values and Indian Constitution were introduced in the curriculum. All the suggested changes in the curriculum by the departments and their BOS are put forth to the academic council for approval.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://nandhaengg.org/6-5-2/

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)	A. Any 4 or all of the above

File Description	Documents
Paste the web link of annual reports of the Institution	https://nandhaengg.org/6-5-3/
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

- **For the welfare of girl students and female faculty members, Women Development Cell was established in the year 2012.**
- **Mechanical department along with National Commission for Women (AICTE) conducted a program that focused on the study of gender equality, and existing laws relating to women.**
- **WDC joins hand with NGOs functioning in and around the area to encourage the development of women.**
- **The Women Achievers are being specially awarded with KALKI AWARD on International Women's day every year.**
- **Fees Concessions are provided to the girl students those who are willing to join in core programmes like mechanical and Civil.**
- **Counsellor has been appointed by the college for assessing the regular activities of the girls and to identify their problems and help them to settle down their issues.**
- **Protective and secure rooms have been allocated to ensure good health and hygiene of the students.**
- **To reduce the burden of women employees and to take care of their wards, child care system has been implemented in association with a nearby play school.**
- **Surveillance cameras are installed in the campus for monitoring student's movements**
- **The security personal is deployed across the college premises for any kind of security issues and offers strict vigilance**

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	https://nandhaengg.org/7-1-1/

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment	**A. Any 4 or All of the above**

File Description	Documents
Geotagged Photographs	[View File](#)
Any other relevant information	[View File](#)

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

Solid Waste Management:

- **Garbage bins are kept in the campus to collect solid waste.**
- **Biodegradable organic wastes are subjected to the composting process.**
- **Vermicompost pit has been constructed on a scale of 9x3x3 feet near Crop and Animal Husbandry Laboratory. The obtained organic manure is used for cultivation.**

Liquid Waste Management:

- **Sewage Treatment Plant with purification capacity 2, 00,000 litres per day has been installed near Boys Hostel. The recycled water is used mainly for gardening.**

E-waste Management:

- **Electronic goods are put to optimum use;**
- **The waste compact discs and other disposable non-hazardous items are used by students for decoration during college fests.**
- **The Computer maintenance team identifies the e-waste that is accumulated in all departments and stores them in a**

specified place. The collected e-waste is sold to the proper agency for recycling.

Bio medical Waste management:

- In the department of bio medical engineering, used needles and sharps are destroyed using an Sharps and Needle destroyer.
- Yellow bins are placed inside the campus to collectBio waste materials.
- Handling of Hazardous Chemicals and radioactive wastes
- Students and faculty members are instructed to use chemicals by following the standing operating procedures like handling chemical with face mask and gloves etc.,

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	View File
Geotagged photographs of the facilities	View File
Any other relevant information	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

A. Any 4 or all of the above

File Description	Documents
Geotagged photographs / videos of the facilities	View File
Any other relevant information	View File

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

1. Restricted entry of automobiles
2. Use of bicycles/ Battery-powered

A. Any 4 or All of the above

vehicles
3. **Pedestrian-friendly pathways**
4. **Ban on use of plastic**
5. **Landscaping**

File Description	Documents
Geotagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	View File
Any other relevant documents	View File

7.1.6 - Quality audits on environment and energy undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following: 1. **Green audit** 2. **Energy audit** 3. **Environment audit** 4. **Clean and green campus recognitions/awards** 5. **Beyond the campus environmental promotional activities**	A. Any 4 or all of the above

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	View File
Certificates of the awards received	View File
Any other relevant information	View File

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights,	A. Any 4 or all of the above

display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.

File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	View File
Details of the software procured for providing assistance	View File
Any other relevant information	View File

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

- **The Institution provides an inclusive environmentby advocating tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities.**
- **A clubs like NSS, Road Safety, YRC, Tree plantation, etc are included in the curriculum under Personality and Character Development (PCD) course.**
- **The institute maintains complete transparency from the enrollment to the graduation and admissions are done only on merit.**
- **Students Grievance Redressal Cell is constituted to address the grievances of the students to maintain harmony.**
- **Regular visits are arranged to Orphanages and Homes for Aged to strengthen values of love and compassion.**
- **The Institution celebrates regional and national festivals and birth anniversaries of leaders through cultural programmes and oratorical sessions.**
- **English is utilised asmedium of teaching in all the classrooms.**
- **To enable the students to work across the world, the**

- other foreign languages like German, Japanese and Hindi have been taught.
- The students and the faculty of all the communities and religions are a part of this temple of learning which shows that the institute strives to provide conductive environment for all.
- To overcome the socioeconomic barriers, the institute has facilitated the students to receive the following scholarships: 5,300 BC/MBC scholarships, 1,238 SC/ST scholarships, 6,010 first graduate scholarships.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	[View File](#)

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

The value of Human was realized more specifically during pandemic period and it became essential to create awareness about corona virus, and as an initiation social cause pamphlets were created and uploaded in social media.The various programs organized are:

1. NSS unit of the institution conducts a cleanliness drive to mark the occasion of Swachh Bharat Abhiyan in the nearby village areas.
2. Environmental awareness programs are conducted
3. Awareness camps - For girl students and female faculty, awareness on polycystic ovaries.
4. The Blood Donation Camp (Nandha's Uyir thuli) was conducted by the NSS Club of Nandha Engineering College jointly with Lion's Blood Bank, Erode
5. Courses like Essentials of Indian Traditional Knowledge and Constitutions of India were added to the curriculum
6. Village cleaning programs were organized under NSS club made our students to understand their responsibilities.
7. During natural disasters(Kerala flood relief mission, Gaja cyclone relief fund raiser activity), students are permitted to collect funds/ materials and distribute them to the affected people
8. Few department students have visited orphanage and old age homes and provided the fund which they collect from

faculty, staff and students

9. **As a Tribute to General. Bipin Rawat, students of Nandha Engineering College mourned and observed 2 minutes silence**

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	View File
Any other relevant information	View File

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized

A. All of the above

File Description	Documents
Code of Ethics - policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	View File
Any other relevant information	View File

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

Every year legal awareness programmes are organized to educate students to know about the fundamental rights and duties.

During National Youth day, all the participants are taking oath every year. National flags are distributed to faculty, staff

and students to instil sense of pride amongst them.

Independence and Republic are celebrated every year and the students have been participating in various events depicting the different cultures of our country.The student staff and alumni participate and rejoice during this celebration with great patriotic fervour.

The Institution commemorates the birth / death anniversaries of great Indian personalities like Dr.A.P.JAbdul Kalam, Dr. Babasaheb Ambedkar, Chatrapati Shivajimaharaj, and Mahatma Gandhi.

During Teachers day, the students' of all the departments puts up a show to express their love and gratitude for their teachers.

Engineers' day is being celebrated every year and the departments are conducting various technical events like seminars and symposiums.

International Yoga day is celebrated and faculty and students are performed Yoga.

Women's day is celebrated on International Women's day i.e. March 8 to show respect towards women in all the efforts taken by them

To pay due respect to the sacrifices of our Indian soldiers, Kargil Day has been celebrated.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	View File
Geotagged photographs of some of the events	View File
Any other relevant information	View File

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

1. In - House Companies

In - house companies draw the attention of the students as it provides industrial platform during their academic tenure. Nandha Engineering College aims to bridge the gap between industry and academia.All placement willing students are allowed to attend In - house company interview from II year onwards. Through i GEN, around 20 students are getting placed every year. The details are as follows:

Year No.of students fot placed 2021 33 2022 23

2. Personality and Character Development (PCD)

Development of the all-rounded individual is the principal goal of PCD in colleges. PCD aims to develop character with competence and also emphasizes on invoking hidden skills which are very vital to deal with the current scenario of challenging competitions. All students should enroll in any one of the personality and character development program and attend 30 hours of activities.

1. National Service Scheme (NSS)
2. Sports Club
3. Youth Red Cross (YRC)
4. Tree Plantation Club
5. Road Safety Club
6. Music club
7. Photography Club
8. Trekking Club
9. Fine Arts Club

File Description	Documents
Best practices in the Institutional website	https://nandhaengg.org/7-2-best-practices/
Any other relevant information	https://nandhaengg.org/wp-content/uploads/2022/03/7.2-Best-Practices.pdf

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

To ensure Innovation as a prime kingpin, the following platforms is introduced to build the culture of innovation and to transform dream ideas into reality.

- Institution's Innovation Council (IIC)

- Centre for Innovation and Product Development (CiPD)

- Business Incubator (BI)

Ranking

IIC of Nandha Engineering College has been awarded five star and four star rating by the Ministry of Education (MoE) for innovation and startups for the year 2019-2020 & 2020-2021 respectively.

Grants

BI of NEC has been funded with Rs.15 lakh for the idea Roll and Pull Uprooting Machine.

Patents and Copy rights

21 patents and 30 copyrights have been obtained by faculty and students

Product Launch-

- Automatic Sanitizer Dispenser and Automatic Hand Sanitizer developed by Mr.M.Seenivasan, AP/ ECE and Mr.R.K.Boopesh of II ECE
- Automatic Alert for Sleepy Drivers was done by Mr.S.Premnath, Ms.R.Dhivyarani and Mr.L.Mohanasundar of IIEEE through CiPD
- Automatic Seed Sowing Farobot Using Arduino was developed by Jobin Joseph, A.J.Arsha, C.M. Drishya and P. Nayana of II Agriculture Engineeringto overcome the problem of labour shortage.
- Solar Inverter developed by Mr. M.Arunprasath, Mr. P.S.Karthickh Raghunath, Mr. S.Kavin Kumar and Mr. K.C.Santhosh of III EEE with the guidance of faculty members Mr.S.Prabhakaran, AP/EEE and Mr.P.Krishnagandhi,AP/EEE.

File Description	Documents
Appropriate link in the institutional website	https://nandhaengg.org/7-3-institutional-distinctiveness/
Any other relevant information	View File

7.3.2 - Plan of action for the next academic year

Plan of Next Year

- **To revise the regulations and syllabi of various courses depending on the need of the industry in present scenario.**
- **To motivate the faculty members to improve the number of video lectures for various courses, apply and receive research proposals provided by various funding agencies.**
- **To encourage the students to carry out more industry projects, internships and get practical exposure to recent technologies.**
- **To make the students to improve the interest in self study by enrolling in online courses like NPTEL, Udemy and also industrial courses.**
- **To conduct more programs related to higher studies and entrepreneurships for improvement of students.**