



## YEARLY STATUS REPORT - 2021-2022

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

• Financial Status	<b>Self-financing</b>				
• Name of the IQAC Co-ordinator/Director	<b>Dr .S.Kavitha</b>				
• Phone No.	<b>04294-225585</b>				
• Mobile No:	<b>9942215651</b>				
• IQAC e-mail ID	<b>iqac@nandhaengg.org</b>				
<b>3.Website address (Web link of the AQAR (Previous Academic Year)</b>	<a href="https://nandhaengg.org/wp-content/uploads/2022/06/AQAR-2020-2021.pdf">https://nandhaengg.org/wp-content/uploads/2022/06/AQAR-2020-2021.pdf</a>				
<b>4.Was the Academic Calendar prepared for that year?</b>	<b>Yes</b>				
• if yes, whether it is uploaded in the Institutional website Web link:	<a href="https://nandhaengg.org/academic-calendar/">https://nandhaengg.org/academic-calendar/</a>				
<b>5.Accreditation Details</b>					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
<b>Cycle 2</b>	<b>A+</b>	<b>3.38</b>	<b>2022</b>	<b>09/11/2022</b>	<b>08/11/2027</b>
<b>6.Date of Establishment of IQAC</b>			<b>01/12/2014</b>		
<b>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.)?</b>					

Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount
P Krishnagandhi	Esteemed Mentor of Make4thon	Microsoft Learn Student Chapter, Thapar Institute of Engineering and Technology, Patiala	05/03/2022	0
C Vasuki	MoE's Innovation Cell	AICTE	30/06/2022	0
A Amarnath Prabhakaran	MoE's Innovation Cell	AICTE	30/06/2022	0
S Muruganatham	MoE's Innovation Cell	AICTE	30/06/2022	0

**8. Provide details regarding the composition of the IQAC:**

<ul style="list-style-type: none"> <li>Upload the latest notification regarding the composition of the IQAC by the HEI</li> </ul>	<a href="#">View File</a>	
<b>9.No. of IQAC meetings held during the year</b>	<b>4</b>	
<ul style="list-style-type: none"> <li>Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website?</li> </ul>	<b>Yes</b>	
<ul style="list-style-type: none"> <li>If No, please upload the minutes of the meeting(s) and Action Taken Report</li> </ul>	No File Uploaded	
<b>10. Did IQAC receive funding from any funding agency to support its activities during</b>	<b>No</b>	

the year?	
• If yes, mention the amount	
<b>11. Significant contributions made by IQAC during the current year (maximum five bullets)</b>	
<ul style="list-style-type: none"> <li>• Introduction of Fast track courses</li> <li>• Credits for online courses</li> <li>• Periodical Academic Audits</li> <li>• Skill development programme for faculty members</li> <li>• Knowledge Enrichment for students</li> </ul>	
<b>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:</b>	
Plan of Action	Achievements/Outcomes
To obtain NBA Accreditation under Tier - I	Obtained NBA under Tier - I for 3 programmes CSE, ECE and IT with above 675 score.
NAAC Accreditation cycle II	NAAC A+ grade with 3.38 score
Collaboration with industries to be strengthened.	In order to increase the collaboration with industries ,MoUS are signed with the industries to impart practical knowledge to the students. One credit courses are taught to the students by industry experts. Students are 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 2021-2022. BI of NEC has been funded with Rs.14.75 lakh for the idea of Smart Solar Waste Segregation and Management using Internet of Things from MSME.
Implementation of Learning through Online Tools	Various online tools including zoom, Google classroom, Cisco webex were introduced for effective Teaching and Learning

	process.
Digital platform for placement practice tests	Tests in Examly are conducted for placement practice .
Academic Audit	Academic audits are regularly conducted to monitor the academic activities such as syllabus completion, performance of the student, attainment 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	class committee meetings are conducted twice in a semester.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 and publications.
<b>13.Was the AQAR placed before the statutory body?</b>	<b>Yes</b>
<ul style="list-style-type: none"> <li>Name of the statutory body</li> </ul>	
Name of the statutory body	Date of meeting(s)
Governing council	29/10/2021

<b>14. Was the institutional data submitted to AISHE ?</b>	<b>Yes</b>
<ul style="list-style-type: none"> <li>• Year</li> </ul>	
Year	Date of Submission
2021-22	19/01/2023
<b>15. Multidisciplinary / interdisciplinary</b>	
<p>The Vision of National Education Policy is to provide high quality education to transform people of the nation as global citizens. Nandha Engineering College has always strived to inculcate multidisciplinary approach in its academic as well as co curricular activities. A discussion among the faculty members are initiated on the key principles of NEP such as diversity for all curriculum and pedagogy with technological innovations in teaching and learning, encouraging logical decision making and innovation, critical thinking and creativity.</p> <p>Moreover, Students are encouraged to undertake projects in the Multidisciplinary/ Interdisciplinary mode by formulating teams from different courses. Students are also encouraged to form teams from different disciplines to participate in various events like Hackathons, Toycathon, etc. The process of revision of curriculum is under progress for the students to be admitted in the academic year 2022-23 and onwards. Further, provisions are also made to offer new courses in emerging fields other than the parent discipline. All programmes are designed in such a way that students get maximum flexibility to choose elective courses from the curriculum of other B.E.,/B.Tech,. programmes. Open Elective courses like Waste Management, Waste Water Treatment, Renewable Energy Technology, etc., educate the students about the pressing challenges and needs at local, regional, national and global level. A student can opt minimum of 2 and maximum of 4 Open Elective courses. The college is proactively working towards implementation of the suggestions given in NEP.</p>	
<b>16. Academic bank of credits (ABC):</b>	
<p>Academic Bank of Credits, established on the lines of the National Academic Depository, have a dynamic website providing all details of Academic Bank of Credits and its operational mechanism for the use of all stakeholder of higher education. Academic Bank of Credits is</p>	

essentially a credit-based, highly flexible and student-centric facility. Nandha Engineering College follows a Choice Based Credit System for all of its programmes. The Institution is in the process of getting approval to apply for registration with Academic Bank of Credits from statutory authorities such as Governing Council, Academic Council and University Authorities. Courses done by the students through online modes in the National Schemes like SWAYAM, NPTEL, etc., are also considered for credit transfer and credit accumulation. Nearly 262 students have appeared for NPTEL Examination and got benefitted for the past five years. It is planned to incorporate additional bank of credits in the forthcoming Regulation (R22). Industry sponsored laboratories such as Renewable Energy Lab, Digital Product Design and Virtusa Augmented Solutions are functioning in the Institution.

#### **17.Skill development:**

Integrating vocational education with general education is the most promising way to promote holistic development of the students, equipping them with knowledge, skills and competencies which would prepare them for life and work. Nandha Engineering College enhances collaboration with industries for internship to expose the students to the work environment and to get the experience of hands-on practice. Students are given hands-on exposure to practical subjects through mini projects, in which students identify their skills and learn the concepts through experiential learning. The Institution has introduced the platforms such as Institution's Innovation Council (IIC), Centre for Innovation and Product Development (CiPD) and Business Incubator (BI) to promote the development of innovative and commercially viable products, useful for the industry and society. Employability Enhancement Course (EEC) which includes Employability Skills, Personality Development Courses, Project Work and / or Internship, Seminar, Professional Practices, Training at Industry / Research organization and online courses is offered to students to provide a platform for transforming the students into technically competent, ethically strong and qualified professionals. Nearly, 50 skill development programmes are organized every year. Bridge courses are also offered to the lateral entry students in the third semester. The Institution also encourages cross-disciplinary research.

#### **18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)**

NEP 2020 envisages a greater promotion of Indian Languages, Arts and Culture. The NEP document elaborates on the cultural and knowledge heritage of India, the importance of Indian Philosophy in the

renewed perception, the importance of the Multilanguage, multicultural background of the country and the necessity for revitalizing these realms for the betterment of the country and the world. This strategy calls for a paradigm shift in the immediate past educational system (which, in general opinion, has devalued the Indian traditional knowledge). To bring back the glory of the ancestral values and knowledge and a line with AICTE guidelines, the institution has introduced courses such as 'Constitution of India and Essence of Indian Traditional Knowledge' for all UG students. To augment the lectures in the class room, standard text books on Indian Constitution and Cultural heritage of India are given to the students. Through the efforts of Fine Arts Club, Oratorical competitions are conducted regularly in the regional language viz Tamil on topics like Environment Protection and Energy Conservation as well as topics on cultural and ethnic values of India.

#### **19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):**

Outcome Based Education is being adopted by the Institution since 2015 - 16. The Institution has well defined Program Outcomes (PO), Program Educational Outcomes (PEO) and Course Outcomes (CO) on our website and are displayed at prominent places in the departments. Students are assessed as per OBE attainment model. All courses are designed with outcomes centered on cognitive abilities namely Remembering, Understanding, Applying, Analyzing, Evaluating and Creating. Apart from the domain-specific skills, learning outcomes at all levels ensure social responsiveness and ethics as well as entrepreneurial skills. Hence, students contribute proactively to economic, environmental and social well-being of the nation. The Course Objectives (COs) are also aligned to Program Outcome and Program Specific Outcome. Syllabi have been designed with due consideration to macro-economic and social needs at large so as to apply the spirit of NEP.

#### **20.Distance education/online education:**

All over the world, there is a noticeable change in the modalities of teaching-learning, with a considerable shift from all classrooms teaching-learning to partly classroom and partly online teaching-learning. This is demonstrated by the international appeal of online education, such as MOOCs. The Institution encourages students to take MOOC courses such as NPTEL, Swayam, Coursera and others to earn equivalent credits. The necessary approvals are obtained to integrate the credit transfer scheme for the students. As a result, the credits acquired through SWAYAM-NPTEL are used as a substitute



for optional courses. The list of such courses is approved by the chairperson before the beginning of the semester so that students enroll in courses that are relevant to the curriculum and are neither repetitive nor duplicative. The online courses also facilitate the students' completion of the credit requirements by the 7th and 8th semesters. Students take up full time internships in reputed industries. Online Education helps students acquire industry-required skills as well as better job opportunities.

## Extended Profile

### 1. Programme

1.1 16

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

### 2. Student

2.1 2890

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	<a href="#">View File</a>

2.2 720

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

2.3 2814

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

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

### 3. Academic

3.1	390
Number of courses in all programmes during the year:	
File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>
3.2	229
Number of full-time teachers during the year:	
File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>
3.3	229
Number of sanctioned posts for the year:	
<b>4.Institution</b>	
4.1	772
Number of seats earmarked for reserved categories as per GOI/State Government during the year:	
4.2	63
Total number of Classrooms and Seminar halls	
4.3	1041
Total number of computers on campus for academic purposes	
4.4	532.28
Total expenditure, excluding salary, during the year (INR in Lakhs):	

## 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 designed in alignment with department's Vision and Mission, PEOs, POs and PSOs. The Course Outcomes of each subject, POs and PSOs are framed with the views of Internal and External stakeholders and analyzed every year by the PAC and DAB Members.

The suggestions from the stakeholders are reviewed by the Chairman of BoS. The recommendation from the Chairman and the expert is taken into account and the curriculum is submitted for approval in BoS. Standing Committee consolidates the inputs from BoS and submits to Academic council. Academic Council scrutinizes and approves the proposals of BoS with regard to courses of study, academic regulations, curricula, syllabi and modifications.

OBE is adopted by the Institution since 2015-16. Keeping OBE in forefront, changes in regulations, inclusion of open elective, embedded and PBL courses are made besides enabling the students to pursue internships from second year onwards. CBCS is also adopted to provide freedom to students to select courses which enable them to learn at their own pace and undergo additional courses. Furthermore, needs at the regional and national levels are addressed by offering skill based courses, value added courses, online courses, PCD activities, MoUs and In - House companies.

File Description	Documents
Upload additional information, if any	<a href="#">View File</a>
Link for additional information	<a href="https://nandhaengg.org/wp-content/uploads/2023/01/1.OBE_.pdf">https://nandhaengg.org/wp-content/uploads/2023/01/1.OBE_.pdf</a>

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

13

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	<a href="#">View File</a>
Details of syllabus revision during the year	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

356

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

## 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	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format (Data Template)	<a href="#">View File</a>

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

16

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
List of Add on /Certificate programs (Data Template)	<a href="#">View File</a>

## 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

Curriculum for all the programs is designed by including courses pertaining to Professional Ethics, Gender, Human Values and Environment and Sustainability. As a supplement of this endeavour, various activities such as Seminars, Guest Lectures, Workshops and Awareness Programs etc. are organized throughout the year.

The curriculum encompasses courses like Professional Ethics, Professional Ethics and Human Values, Inter Personal Values, Personal Values etc., to instil in students a set of ethical norms and basic human values. Further, PCD activities and Blood Donation Camps are conducted periodically to inculcate the significance of service to the society.

The Institution fosters gender equity by providing equal opportunities for both the genders in terms of admission, training programs, co-curricular and extra-curricular activities. Moreover, the Institution has constituted Women Development Cell and Anti Sexual Harassment Cell to promote social respect, self-dignity, rights and comfort for women.

The courses related to environmental studies such as Environmental Engineering, Energy conservation in buildings, Sustainable agriculture, Soil and Water Conservation Engineering, Industrial Wastes Treatment and Disposal, Waste Management, Waste Water Treatment, Renewable Energy Technology, etc make students aware of the problems that are posing threat to the environment and to keep track of the effects of human activities on environment.

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	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

39

File Description	Documents
List of value-added courses	<a href="#">View File</a>
Brochure or any other document relating to value-added courses	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

1179

File Description	Documents
List of students enrolled	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

778

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

## 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	<a href="https://nandhaengg.org/wp-content/uploads/2023/02/feedback-analysis-and-ATR.pdf">https://nandhaengg.org/wp-content/uploads/2023/02/feedback-analysis-and-ATR.pdf</a>
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 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	<a href="https://nandhaengg.org/wp-content/uploads/2023/02/feedback-analysis-and-ATR.pdf">https://nandhaengg.org/wp-content/uploads/2023/02/feedback-analysis-and-ATR.pdf</a>
Any additional information	<a href="#">View File</a>

## 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

758

File Description	Documents
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>

##### 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)

476

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of seats filled against seats reserved (Data Template)	<a href="#">View File</a>

### 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.

#### Learning Level Assessment

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.

## Slow learners

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

Tutorial classes and remedial classes are provided to facilitate slow learners. Periodic counseling sessions are arranged for the slow learners to motivate and perform well. Students are motivated to talk in English in every class hour either by recapitulation or concluding what had been taught to them. Academic problems are addressed in tutorial classes, assignments are evaluated and suggestions are given for improvements.

Every year, Lateral entry students undergo Bridge course at the beginning of the third semester.

## Advanced learners

The institution encourages high performers to participate in competitions, Workshops, Association activities, Professional society activities, Co-curricular and Extracurricular activities.

Students with good academic excellence are encouraged to study online courses in NPTEL to acquire wide spectrum of knowledge in their domain area and to inculcate interest towards research.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/2-2-1/">https://nandhaengg.org/2-2-1/</a>

### 2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
31/05/2022	2890	229

File Description	Documents
Upload any additional information	<a href="#">View File</a>

## 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:

#### EXPERIENTIAL LEARNING

##### PBL/RBL (Project Based Learning/Research Based Learning)

In the curriculum PBL/RBL (Project Based Learning/Research Based Learning) are imparted to inculcate project skills in the domain of study. Knowledge gained through the PBL/RBL helps the students to do collaborative projects.

##### One Credit Courses

Skill-based courses in emerging areas are offered as One Credit Courses. These courses are handled by industry experts and faculty members.

#### PARTICIPATIVE LEARNING

##### Professional Society

Students are motivated to get enrolled in professional societies like CSI, ISTE, IETE, and IEI etc. Promotion of creativity and critical thinking among the students is accomplished through these forums

##### Club Activities

The institute organizes various activities through Fine Arts club, Sports club, Photography club, Music club, Go-green club, Road safety club, National Service Scheme (NSS), National Cadet Corps (NCC), Youth Red Cross (YRC), Women Development Cell (WDC), etc., to inculcate moral and ethical principles in the students in turn to society.

#### PROBLEM SOLVING METHODOLOGY

- TamilNadu State Council for Science & Technology (TNSCST) funds our student

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.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Link for additional Information	<a href="https://nandhaengg.org/2-3-1/">https://nandhaengg.org/2-3-1/</a>

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

### 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.

### Google Classroom

Classroom helps to streamline the process of sharing materials, assignments, boost collaboration, and to faster communication. Students use classroom with many tools such as Gmail, Google Docs, and Google Calendar.

### NPTEL

Students are encouraged to enroll for NPTEL courses and acquire knowledge pertaining to the domain. Course exemption is offered depending upon the credits.

### Virtual Labs

Virtual labs are online simulation-based labs for various disciplines of Science and Engineering under the initiative of the Ministry of Education

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### 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](http://www.nandhaengg.org/images/cse/Ball_Game.pdf)

Youtube Link

<https://youtube.com/channel/UC71LbSzZfIPqNWiuRFa38Mg>

[https://youtube.com/channel/UCxc3N\\_WO4vjYKqXObjtVoEQ](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	<a href="https://nandhaengg.org/wp-content/uploads/2023/03/2.3.2_ICT-Tools.pdf">https://nandhaengg.org/wp-content/uploads/2023/03/2.3.2_ICT-Tools.pdf</a>
Upload any additional information	<a href="#">View File</a>

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

#### 2.3.3.1 - Number of mentors

159

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	<a href="#">View File</a>
Circulars with regard to assigning mentors to mentees	<a href="#">View File</a>

### 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 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.

#### Internal Quality Assurance Cell (IQAC)

IQAC calendar is prepared to enrich the quality and effective implementation of teaching learning process, Assessment, Research and Development activities, Placement activities Laboratory audit and Academic audit. IQAC regularly conducts meeting with all the Department Heads to maintain quality of academic teaching and learning process. Student projects (In-house/Industrial), Placement activities, funding proposal are audited by the various parameters in IQAC.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	<a href="#">View File</a>

## 2.4 - Teacher Profile and Quality

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

229

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	<a href="#">View File</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

60

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	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

7.27

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**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**

15

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

11

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

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 Degree Certificate
- Printing of Grade sheet, Consolidated Mark sheet for issuing to students.

#### Continuous Internal Assessment System

1. Receiving Academic Calendar from Academic Dean.

## 2. Collecting the following details from all the departments at the time of each semester reopening

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://nandhaengg.org/wp-content/uploads/2023/03/2.5.3_ADDL.pdf">https://nandhaengg.org/wp-content/uploads/2023/03/2.5.3_ADDL.pdf</a>

### 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 institution is implementing Outcome Based Education (OBE) by following the guidelines of the National Board of Accreditation (NBA). In OBE, the Programme Educational Objectives (PEOs), Programme Specific Outcomes (PSO), Program Outcomes of each department are prepared and used to measure the outcomes, based on the Graduate Attributes (GAs).

Process of Dissemination:

- College Website - [www.nandhaengg.org](http://www.nandhaengg.org)
- Dissemination to the internal stakeholders

Displayed in all prominent places of department such as HoDs chamber, Department notice board, and 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)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Link for additional Information	<a href="https://nandhaengg.org/2-6-1-po-pso-co/">https://nandhaengg.org/2-6-1-po-pso-co/</a>

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

### 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 =  $0.6 * \text{ESE} + 0.3 * \text{CAT} + 0.05 * \text{Assignment} + 0.05 * \text{Online test}$

Direct Attainment for Laboratory =  $0.5 * \text{ESE} + 0.5 * (\text{CAT} + \text{Model})$

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

PO & PSO attainment =  $(\text{Overall COx Attainment}) * ((\text{Mapping value of PO and PSO for CO x}) / 3)$  where, x is the number of COs

Likewise the attainment for all the courses is calculated and the Direct attainment level of a PO/PSO is determined by taking average across all courses addressing that PO/PSO. The Indirect attainment level of a PO/PSO is determined based on the student exit survey, employer survey and alumni survey. Finally the average of Direct and Indirect attainment states the Attainment of a PO/PSO.



File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://nandhaengg.org/wp-content/uploads/2023/03/2.6.2-POPSO_Attainment.pdf">https://nandhaengg.org/wp-content/uploads/2023/03/2.6.2-POPSO_Attainment.pdf</a>

### 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	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Paste link for the annual report	<a href="https://nandhaengg.org/wp-content/uploads/2023/03/CoE-Annual-report-2021-2022.pdf">https://nandhaengg.org/wp-content/uploads/2023/03/CoE-Annual-report-2021-2022.pdf</a>

### 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/2023/03/SSS-2022-1.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

#### 3.1 Promotion of Research and Facilities

The professional institution has framed a strong research policy to promote research interest and innovations in the emerging areas of Science, Engineering, and Technology to support a research culture among faculty members and research scholars to undertake interdisciplinary research. The excellence of research work directly

translates to the excellence of teaching and learning in the classroom, benefiting students, society, and our country. The research activities encourage the academic programme by enriching the knowledge of the faculties in their field of expertise. The strength of the research initiatives is that they confirm to established norms and standards for the safe and ethical conduct of research. The well-defined research policy has been approved and uploaded on the college website. Our institute has constituted research committee by Principal with the Director and all the Heads and Deans are nominated as Research Composition Committee members to monitor research activities. The institution has 3 research centres offering Ph.D programmes in different disciplines viz Computer Science and Engineering (CSE), Electronics and Communication Engineering (ECE) and Mechanical Engineering (Mech). The Institution has conducted various webinars, workshops, and FDPs to promote research in the areas of patents, publications, improving research visibility, etc.

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

### 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)

1,70,000

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	<a href="#">View File</a>
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	<a href="#">View File</a>
List of teachers receiving grant and details of grant received	<a href="#">View File</a>
Any additional information	No File Uploaded

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

6

File Description	Documents
e-copies of the award letters of the teachers	<a href="#">View File</a>
List of teachers and details of their international fellowship(s)	<a href="#">View File</a>
Any additional information	No File Uploaded

## 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)

32.37

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	<a href="#">View File</a>
List of projects and grant details	<a href="#">View File</a>
Any additional information	No File Uploaded

### 3.2.2 - Number of teachers having research projects during the year

11

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://nandhaengg.org/wp-content/uploads/2023/02/3.2.2.pdf">https://nandhaengg.org/wp-content/uploads/2023/02/3.2.2.pdf</a>
List of research projects during the year	<a href="#">View File</a>

### 3.2.3 - Number of teachers recognised as research guides

16

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	<a href="#">View File</a>
Institutional data in Prescribed format	<a href="#">View File</a>

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

6

File Description	Documents
Supporting document from Funding Agencies	<a href="#">View File</a>
Paste link to funding agencies' website	<a href="https://nandhaengg.org/wp-content/uploads/2023/02/3.2.4.pdf">https://nandhaengg.org/wp-content/uploads/2023/02/3.2.4.pdf</a>
Any additional information	<a href="#">View File</a>

## 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**-Established in year 2014 aimed of creating spark of innovation in the students' mind and to expose them to the existing problems that need to be solved. It encourages the students to come up with ideas which have innovation, Intellectual Property Right component and potential commercial value. **Business Incubator** - Established in year 2016 and received

Host Institution from MSME, Government of India in the year 2018. So far, 10 products launched for society. The MSME had sanctioned Rs.15 lakhs in year 2021 and 14.75 lakhs in year 2022. Institution's Innovation Council - Started in 2018 to create an ecosystem. To encourage the student to work on new ideas and innovation and promote to develop products, to develop better cognitive ability for Engineering/technology and to identify and reward innovations and share success stories, periodic activities with innovators/startups/entrepreneurs, professionals and creation of mentor pool, network with peers and national ED organizations. Entrepreneur Development Centre - Established in 2013 to enhance entrepreneurship awareness among the student communities. Cell organizing entrepreneurial promotional programs to transform students into entrepreneurs once they complete their graduation besides creating entrepreneurial awareness among them with funding supports from various agencies.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/wp-content/uploads/2023/03/3.3.1-NEC-AY21-22.pdf">https://nandhaengg.org/wp-content/uploads/2023/03/3.3.1-NEC-AY21-22.pdf</a>

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

47

File Description	Documents
Report of the events	<a href="#">View File</a>
List of workshops/seminars conducted during the year	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 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	<a href="#">View File</a>
Any additional information	No File Uploaded

### 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

21

File Description	Documents
URL to the research page on HEI website	<a href="https://nandhaengg.org/research-activities/">https://nandhaengg.org/research-activities/</a>
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	<a href="#">View File</a>
Any additional information	No File Uploaded

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

58

File Description	Documents
List of research papers by title, author, department, and year of publication	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

134

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/wp-content/uploads/2023/02/3.2.4.pdf">https://nandhaengg.org/wp-content/uploads/2023/02/3.2.4.pdf</a>

### 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

30

File Description	Documents
Any additional information	<a href="#">View File</a>
Bibliometrics of the publications during the year	<a href="#">View File</a>

### 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

21

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 3.5 - Consultancy

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

7.993

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	<a href="#">View File</a>
List of consultants and revenue generated by them	<a href="#">View File</a>
Any additional information	No File Uploaded

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

1,50,000

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	<a href="#">View File</a>
List of training programmes, teachers and staff trained for undertaking consultancy	<a href="#">View File</a>
List of facilities and staff available for undertaking consultancy	<a href="#">View File</a>
Any additional information	No File Uploaded

### 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

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 various awareness programmes in nearby villages to addresses the



significance of social issues.

**Rotaract and Social club:**

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

**Personality and Character Development:**

The institution has vibrant clubs such as Organic Farming 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	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/personality-and-character-development/">https://nandhaengg.org/personality-and-character-development/</a>

**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**

2

File Description	Documents
Number of awards for extension activities in during the year	<a href="#">View File</a>
e-copy of the award letters	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**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)

30

File Description	Documents
Reports of the events organized	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

781

File Description	Documents
Reports of the events	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 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**

186

File Description	Documents
Copies of documents highlighting collaboration	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**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)**

15

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	<a href="#">View File</a>
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	<a href="#">View File</a>
Any additional information	No File Uploaded

## 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 and is well connected to the state highways, with a 4,43,234 sq. ft area of built up structures with all essential amenities. All the classrooms (63 Nos) are equipped with LCD/LED Projectors/Smart TVs, Personal Computers, and Wired/Wireless Internet connectivity. Among 63 classrooms, 51 are for UnderGraduate (UG) programmes and 12 are for PostGraduate (PG) programmes. 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 for various disciplines with state of the art facilities. Industry Sponsored laboratories in collaboration with the leading industries and funding agencies have been established in the frontier area of Engineering and Technology. Nandha Central Library is a three-storey building of 10,800 sq.ft intended to accommodate upto 250 students with adequate seating facilities. It has 61,555 Volumes, 19,263 Titles, 96 International Journals, 102 National Journals in addition to 77 Technical Magazines and 32 General Magazines. The Library has 13 different memberships and access to 8,820 e-books and 3,324 e-journals. NEC has enabled the Digital Library for viewing of e-content from NPTEL / SWAYAM portal and has also provided with a reprographic facility available on the first floor. A total number of 1,163 computers, 72 printers and 10 scanners are available throughout the campus for students' usage. Available bandwidth of internet connection in NEC is 1 Gbps which is connected with firewall secured 25 Wi-Fi connectivity access points.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/4-1-1/">https://nandhaengg.org/4-1-1/</a>

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

The college provides first-rate facilities on play fields for various games like Volleyball, Football, Cricket, Badminton, Hockey, Chess, Caroms etc., in the campus. The College conducts Annual Sports Meet and encourages students to participate in the Inter-

Collegiate events. The Physical Education Department has all the facilities to promote sports and games among the students. The total area of the playground is more than 10 acres. The indoor auditorium in NEC is based on the plan of pliability of usage. The auditorium has a spanning area of 24,000 sq.ft. In addition, the indoor auditorium provides space for organizing academic seminars, conferences, workshops, Annual Day, etc., Yoga is a holistic practice that helps to gain overall balance and focus. Most students experience an increase in strength and flexibility, decrease in stress level and tension in the muscles, and a feeling of mental clarity and peace. NEC has a well maintained and well managed 24x7 ATM facility within its campus, facilitating the students and staff members to perform all the required transactions safely. Nandha Engineering College, apart from providing scholastic education, takes responsibility for the mental and physical welfare of the students. By keeping this in forefront, the gym in NEC resonates with a sound mind in a sound body. Tie-ups have been established between the Institute and Nandha Medical College Hospital, as well as between the Institute and Krishna Medical Center, Perundurai to provide emergency medical treatment to NEC students.

File Description	Documents
Geotagged pictures	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/4-1-2/">https://nandhaengg.org/4-1-2/</a>

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

63 , 3

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<a href="#">View File</a>

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

177.46

File Description	Documents
Upload audited utilization statements	<a href="#">View File</a>
Details of Expenditure, excluding salary, during the years	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

## 4.2 - Library as a Learning Resource

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

**Library is automated using Integrated Library Management System (ILMS)**

Nandha Engineering Central Library (NECL) is fully automated and specially designed to motivate the learning experience of faculty members and students community. It havean 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 digital library is implemented with 32 desktopsystems and 20 Laptopusable desks for accessing 200 IEEE, 2952 JGate, 130 ProQuestonline journals, 8820 e-books, 31,535 Audio Visual coursesand 9202 Conference Proceedingswith back volumes. These can be accessed inside the campus on 24/7 basis via Wi-Fiand also through remote accessby using User name and Passwordfor 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.A 50 inch TVis installed along with Doordarshan dish to telecast 32 educational channelslaunched by Swayam Prabhato support Massive Open Online Course (MOOC) facility in the Periodical Section.The library has a unique website which has been designed with the help of free accessible online open sources by providing links. A Whatsapp broadcast grouphas been created for faculty members to deliver new arrivals, news clippings (articles, educational reports, other college news etc), e-books, etc.,

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/4-2-1/">https://nandhaengg.org/4-2-1/</a>

**4.2.2 - Institution has access to the following: e- A. Any 4 or more of the above 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	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

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

12.03

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

**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**

269.2

File Description	Documents
Upload details of library usage by teachers and students	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**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

OurCampushad focused on best-in-classITinfrastructure and Applications development for Academic and Research support.Thecampushas been enabled internet service with 1024Mbps in

administration to process. The Automation Centre maintains the Servers and Networks which provide Computing facility with Network connectivity, across the college and other buildings of the campus including hostels and quarters.

The Automation Centre works under one roof taking care of all the Network, Hardware, Software, Projector and UPS maintenance activities of the Institution. Email-ids for the students and staff are created by the Automation center.

Our campuses are equipped with wired and wireless internet access which require to access internet from class room to library to labs and residential areas such as hostels. 25 WIFInetwork systems are available, with highly secured internet firewall security and Antivirus protection for the entire systems, which are used inside the campus. This will stop sophisticated application-layer threats right at the network perimeter, ensuring Application Security with Class A connectivity and parallel lines to ensure 24\*7 services. vXenon servers and Rack servers are mainly used for internet connectivity in our campus for high speed internet access. There is a Microsoft Campus Agreement, which is used for internet connectivity. vWAN connection with fiber optic cable for up to 2km across the campus is used and CAT 6 cable is used for LAN connectivity.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/4-3-it-infrastructure/">https://nandhaengg.org/4-3-it-infrastructure/</a>

#### 4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
2890	1041

File Description	Documents
Upload any additional information	<a href="#">View File</a>

#### 4.3.3 - Bandwidth of internet connection in the Institution and the number of students on A. 750 Mbps

**campus**

File Description	Documents
Details of bandwidth available in the Institution	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

**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	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/4-3-4-econtent/">https://nandhaengg.org/4-3-4-econtent/</a>
List of facilities for e-content development (Data Template)	<a href="#">View File</a>

**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)**

**177.21**

File Description	Documents
Audited statements of accounts	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

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. 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. A centralized maintenance section, headed



by a maintenance manager and supported by skilled technicians. 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. Any problem that persists in a department is represented through the mentioned methods the complaints are posted in college reformation site. The supervisor/ skilled person/ technician is summoned to rectify the problem. The technician resolves the problem on site if no additional material is required. In case of material requirements, the materials are received from the maintenance section after the approval of the store manager. If the material is to be procured from outside, permission is to be obtained from the maintenance coordinator / administrative officer and arrangements are made for procurement of the material to resolve the problem. The completed work is inspected by the supervisors concerned .

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/4-4-maintenance-of-campus-infrastructure/">https://nandhaengg.org/4-4-maintenance-of-campus-infrastructure/</a>

## 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	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

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

1433

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>

**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	<a href="https://nandhaengg.org/capacity-development-and-skills-enhancement/">https://nandhaengg.org/capacity-development-and-skills-enhancement/</a>
Details of capability development and schemes	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

**3294**

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)	<a href="#">View File</a>

**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**

**A. All of the above**

**committees**

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	<a href="#">View File</a>
Details of student grievances including sexual harassment and ragging cases	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

**5.2 - Student Progression****5.2.1 - Number of outgoing students who got placement during the year**

619

File Description	Documents
Self-attested list of students placed	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

**5.2.2 - Number of outgoing students progressing to higher education**

16

File Description	Documents
Upload supporting data for students/alumni	<a href="#">View File</a>
Details of students who went for higher education	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**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**

8

File Description	Documents
Upload supporting data for students/alumni	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 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

6

File Description	Documents
e-copies of award letters and certificates	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

#### 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 with the entire class. The complaints will be resolved and the action 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	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/personality-and-character-development/">https://nandhaengg.org/personality-and-character-development/</a>

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

10

File Description	Documents
Report of the event	<a href="#">View File</a>
List of sports and cultural events / competitions organised per year	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

**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 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 mainly promotes the Industry interface, supports for

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	<a href="#">View File</a>
Paste link for additional Information	<a href="https://nandhaengg.org/alumni-at-nec/">https://nandhaengg.org/alumni-at-nec/</a>

#### 5.4.2 - Alumni's financial contribution during the year D. 2 Lakhs - 5 Lakhs

File Description	Documents
Upload any additional information	<a href="#">View File</a>

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

**Mission:**

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

**Nature of Governance:**

Activities includes starting new programs, establishing research centers, implementing choice-based credit system, relative grading, going through accreditation process involves all faculty members.

**Governing Council:**

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

**Institute Quality Assurance Cell:**

The objective is to build a structure for taking 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, extra-curricular activities, and Industry- Institute Partnership.

**Finance Committee:**

It ensures the financial resources and scrutinizes the budget and monitors utilization. It proposes budget for the financial year of departments and institute.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://nandhaengg.org/6-1-institutional-vision-and-leadership/">https://nandhaengg.org/6-1-institutional-vision-and-leadership/</a>

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

**Decentralization:** In order to facilitate decision-making related to academic and administrative activities faster and to ensure complete transparency, various decentralization strategies have been practiced. A Standing Committee for Academic Affairs consisting of the Director, Principal, IQAC members, and the Heads of various departments has been constituted. It meets once a week to review the progress in academics, research, placement, etc. Apart from this, Institution has various other committees, like Student Welfare Committee, Anti-Sexual Harassment Committee, Women Development Cell, Grievance Redressal Committee, Anti-Ragging Committee, and Alumni Cell, etc., to take the right decisions. HoDs allot workload among the respective faculty members based on their areas of specialization.

**Institutional practices:** Various training activities like workshops, seminars, and webinars are initiated for students to meet the gap between Industry - Institution curriculum. The faculty is in-charge of the entire course execution.

**Participative management:** Management conducts periodical review meetings to discuss the activities of Institution/ Department related to students and faculty. Students' performance regarding Enrolment Ratio, Academics, Graduate outcome, Career guidance, Industrial visit, etc., and sports achievements are discussed. Faculty activities like Teaching - Learning, Development/Training, publication, copyright, patenting are monitored. Department activities include MoU signing, stakeholder visits, strategic planning, and implementation.



File Description	Documents
Upload strategic plan and deployment documents on the website	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://nandhaengg.org/6-2-strategy-development-and-deploymentment/">https://nandhaengg.org/6-2-strategy-development-and-deploymentment/</a>

## 6.2 - Strategy Development and Deployment

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

Our strategic plan is holistic and includes a number of interrelated components like Teaching Learning process, Infrastructure, Faculty and Supporting Staff Schemes, Students, Research and Development, Collaboration at National and International level Community engagement. The Institute's Strategic Committee was constituted in 2015, followed by a revised committee in 2021 with key institute leaders, faculty representatives, Industry Expert, Academic Expert from leading institution and Alumni. The team meets frequently for the growth of the Institution and strategic points are also discussed in Governing Body. The outcome of the 2016-2021 plan is analyzed, and the targets are set for 2021-2016. Planning and Monitoring Committee meetings are conducted regularly, and the points are discussed and action is taken to achieve the target set. In the references, constitution of the strategic planning committee, outcome of the 2016-2021 plan, 2021-2026 strategic plan meeting dates, meeting minutes, and the committee targets, strategy, and expected outcome are attached.

File Description	Documents
Strategic Plan and deployment documents on the website	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/wp-content/uploads/2023/02/plan-and-deployment-doc.pdf">https://nandhaengg.org/wp-content/uploads/2023/02/plan-and-deployment-doc.pdf</a>
Upload any additional information	<a href="#">View File</a>

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:** The Institute functions through the delegation of power to Head of the Institution (The Principal) in consultation with the Chairman of Governing Council, and after the approval of Governing Council, the activities are planned. The IQAC team, Students and faculty members are vital in escalating and implementing decision-making processes and implementation.

**Governing Council:** The Governing Council, held once a year, plays an important role in academic decision-making, administration, and the overall growth of the institution. It makes all necessary efforts (Outcome-Based Education, infrastructure, equipment, etc.,) to create a student-centric environment. It monitors the strategic plan on continuous basis, provides appropriate advice and direction to the administration for its implementation and development.

**Statutory and Non- statutory Committees:** In addition, various statutory and non-statutory committees are actively involved in the activities that support the development of college and students.

HoDs are responsible for the academic and administrative matters of the department. The placement and training team takes care of the training and placement activities.

File Description	Documents
Paste link to Organogram on the institution webpage	<a href="https://nandhaengg.org/wp-content/uploads/2023/02/Institution-organogram.pdf">https://nandhaengg.org/wp-content/uploads/2023/02/Institution-organogram.pdf</a>
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://nandhaengg.org/6-2-2-functioning-of-the-institutional-bodies/">https://nandhaengg.org/6-2-2-functioning-of-the-institutional-bodies/</a>

**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	<a href="#">View File</a>
Screen shots of user interfaces	<a href="#">View File</a>
Details of implementation of e-governance in areas of operation	<a href="#">View File</a>
Any additional information	No File Uploaded

### 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

The institution provides financial benefits for technical publications for teaching staff's growth in their professional careers:

Faculty is encouraged to attend conferences / workshops / FDPs and training programmes every year.

- Sponsorships for training programmes and present papers at Conferences
- To enhance the faculty skill set, FDPs are also organized.
- Internet and free Wi-Fi facilities are available in campus.

#### General Facilities

- The institution has sports, gym, and yoga facilities.
- The campus has ATM facility.

#### Leave Benefits

Type of leave/ On-Duty

Teaching

Non-Teaching

Casual Leave

12 Days/ year

Medical Leave

10 Days/year

Vacation

Winter - 2 Weeks Summer - 4 Weeks

Winter - 1 Week Summer - 1 Week

Examination On Duty

12 Days/ year (Not limited)

Higher Study OD

12 days/ Year

Permissions

2 permissions per month

Other Benefits

-Group Insurance

-Emergency advance for Medical Treatment

-Sponsorship for Higher Studies - D. Full Time / Part Time, PDF

-Sponsorship for Seminar/ Paper presentation- in India & Abroad

-Sponsorship for quality improvement programmes

-Revenue sharing by staff in consultancy/ testing (60:40 and 80:20)

-Free Lodging to staff staying in hostels

-Bank Loan at concessional interest rates through Indian Bank

-Fee concession for faculty wards in Nandha Institutions.

-Free transportation

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/6-3-1-welfare-measures-for-teaching-and-non-teaching-staff/">https://nandhaengg.org/6-3-1-welfare-measures-for-teaching-and-non-teaching-staff/</a>

### 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

46

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	<a href="#">View File</a>

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

21

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

### 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.)

131

File Description	Documents
Summary of the IQAC report	<a href="#">View File</a>
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

## 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 resolve 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	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/6-4-1/">https://nandhaengg.org/6-4-1/</a>

### 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)

2.575

File Description	Documents
Annual statements of accounts	<a href="#">View File</a>
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

#### 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	<a href="#">View File</a>
Paste link for additional Information	Nil

## 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, Coordinators, HODs, Senior Faculty Members .

### **Post Accreditation Improvements**

Nandha Engineering College has been granted autonomous in the year 2013 and choice-based credit system is implemented from 2015 onwards. Outcome-Based Education is administered as per AICTE-NBA. The college has received NBA Accreditation under Tier-I for three UG programs: CSE, IT and ECE

### **Teaching -Learning**

Student learning is assessed through Continuous Assessment Tests, Periodic Assignments, Quizzes and an End of Semester Examination is administered through 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 2021 - 22:**

New programme (B.Tech - Artificial Intelligence & Data Science) is started during the academic year 2021-22.

### **Accreditation Quality Initiatives:**

Strategies for the improvisation includes

- Research sharing and networking with other institutions in India and abroad.
- Plan to offer new programmes as per AICTE norms.
- Improvements in Centre of Excellence.
- Placement pay scale above 10 lakhs.
- Industry oriented curriculum



**MoU with premier institutions and industries.**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/naac-certificate/">https://nandhaengg.org/naac-certificate/</a>

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 conducted for course file. Course Outcome, attainment process are reviewed recurrently.

**Teaching Learning Process**

The institution follows Choice Based Credit System (CBCS) and adopted the AICTE model Curriculum of 160 credits since 2018-19. The curriculum is 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. During the academic year 2021-22, a new regulation and Curriculum R22 was framed based on the National Education Policy (NEP) and it is implemented from the academic year 2022-23. 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	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/6-5-2/">https://nandhaengg.org/6-5-2/</a>

**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	<a href="https://nandhaengg.org/6-5-3/">https://nandhaengg.org/6-5-3/</a>
Upload e-copies of accreditations and certification	<a href="#">View File</a>
Upload details of quality assurance initiatives of the institution	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

## **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

Gender Sensitization is an important area to address gender justice and gender equality issues. To achieve gender equity the institute conducts these seminars, debates, and group discussions. In order to obtain the progressive awareness among students towards gender issues, awareness campaigns on gender sensitization are regularly. Women Development Cell was established in the year 2012. The objective of this cell is to empower Women in all aspects to work with dignity and to have working environment safe and to enhance appropriate work conditions in respect to health and hygiene. Apart from that, a 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. Parents and tutors are timely informed before and after the counselling and the same reports will be handed over by the counsellor to the parents. Well furnished rooms with necessary facilities with separate cots and pillows, mirror, chair, table, wash basin, dustbin, etc., Surveillance camera is installed in every nook and corner of 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	No File Uploaded
Paste link for additional Information	<a href="https://nandhaengg.org/7-1-1/">https://nandhaengg.org/7-1-1/</a>

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

**A. Any 4 or All of the above**

**Biogas plant**

**Sensor-based energy**

File Description	Documents
Geotagged Photographs	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

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)

The college is very keen in minimizing the waste and recycling it by passing through the scientific ways that enable the used materials to be recycled ensuring that less natural resources are used. Waste generated in the campus is segregated as solid waste, liquid waste and e-waste and taking the social clubs have played a prominent role in this by organizing various awareness programs, conducting tree plantations and various other activities.

- **Solid waste management:**For the collection of regular solid waste, garbage bins are kept at different places in the campus. Biodegradable organic wastes such as dry leaves, yard trimmings, and waste from kitchen are subjected to the composting process.
- **Liquid waste management:**Sewage Treatment Plant with the purification capacity of 2, 00,000 litres per day has been installed near Boys Hostel.
- **Biomedical waste management:** In the department of bio medical engineering, used needles and sharps are destroyed using an electrical device called Sharps and Needle destroyer.
- **E-waste management:**Recycled water acts as an alternate for existing water supplies and be used to enhance water security,

sustainability and resilience.

- Hazardous chemicals and radioactive waste management: Policies are framed to manage the hazardous chemicals in chemical laboratories.
- Waste recycling system

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	<a href="#">View File</a>
Geotagged photographs of the facilities	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**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	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**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	<a href="#">View File</a>
Various policy documents / decisions circulated for implementation	<a href="#">View File</a>
Any other relevant documents	<a href="#">View File</a>

### 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	<a href="#">View File</a>
Certification by the auditing agency	<a href="#">View File</a>
Certificates of the awards received	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**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**

**A. Any 4 or all of the above**

**reading materials, screen reading, etc.**

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

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 environment for everyone by advocating tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities. Various activities like Annual day, Women's day, Unity day, Science day, Yoga, etc are organized to promote an inclusive environment. Further Socioeconomic awareness programs like Youth awakening day, Helmet awareness for public, Book day rally, Blood donor camp and various rallies are organized to the general public which in turn inculcate the students with some responsibilities within them. Religious festival like Onam is celebrated inside campus and Diwali is celebrated with orphanage children and the funds raised from the college are being donated to orphanages. A variety of clubs like NSS, Road Safety, etc are included in the curriculum under Personality and Character Development (PCD) course so that every student must indulge in any one activity for each semester. Clubs are added to curriculum and are functioning under the PCD. The institution provides a culturally inclusive environment with mutual respect, effective relationships and effective rapport. The institution believes in equality of all cultures and traditions as it is evident from the fact that students belong to different caste and religion are studying in the college without any discrimination.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View File</a>

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

Nandha Engineering College organizes various events to sensitize students and Employees of the Institution to the Constitutional Obligations: Values, Rights, Duties and Responsibilities of citizen. 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. Our Institution we believe in giving holistic all round education to the students. And sensitizing students on our constitutional rights, values, duties and responsibilities of primary education have given in the institute through various means.

Sensitization of students and employees of the Institution to the constitutional obligations is done through curriculum as well as through extra-curricular activities. In curriculum, the subjects which sensitize the students about the constitutional obligations are Essence of Indian traditional knowledge and Also, Constitutions of India, etc. Further a course on Environmental Studies is being offered to give insight into environment acts, wildlife protection act, forest act and global environmental concerns. Besides, many regular programs are conducted in the Institution to educate women about their rights. Also seminars and workshops are conducted on days of national importance on various rights, duties and responsibilities of citizens.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**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	<a href="#">View File</a>
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	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

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

At Nandha Engineering College, all national festivals are celebrated with great enthusiasm to inculcate a sense of patriotism in the students.

Independence and Republic are celebrated every year and the students have been participating in various events depicting the different cultures of our country. The NSS unit and the students' association organise many cultural programs to address prevailing social issues.

The Institution also commemorates the birth / death anniversaries of great Indian personalities like Dr.A.P.JAbdul Kalam, Dr. Babasaheb Ambedkar, Chatrapati Shivajimaharaj, and Mahatma Gandhi. The students share the principles of these eminent personalities through speeches and posters. 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. To inculcate the importance of Yoga among Yoga, International Yoga day is celebrated and faculty and students are performed Yoga and meditation. 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 manage the personal and professional life and for their contributions.



File Description	Documents
Annual report of the celebrations and commemorative events for during the year	<a href="#">View File</a>
Geotagged photographs of some of the events	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

## 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

**Best Practice 1:**In - house companies draw the attention of the students as it provides industrial platform during their academic tenure. A target is essential for each student who aspires to get placed. Setting realistic goals for individual students give them a sense of direction and purpose, and help them improve productivity levels. In-house team suits the companies ready to invest in the recruitment processes, in the development of the team and ready to organize amicable work environment for students. Nandha Engineering College aims to bridge the gap between industry and academia.

**Best Practice 2:**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. The experiences, the students gain through PCD, positively influence their emotional, intellectual, social, and inter-personal development. Taking part in the out-of-the-classroom activities helps students to understand the importance of critical thinking, time management, academic and intellectual competence and connect them with society. Working with diverse groups of individuals allows the students to gain more self-confidence, autonomy and appreciate others' differences and similarities.

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

## 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)

Acceleration in the technological advancement in recent times urges the students to be industry-primed by acquiring eclectic skills while graduating from the institutes of higher education. The advancements will encourage, inspire and nurture young students by exposing them to new ideas and processes resulting in innovative activities. In consistent with the above, the technical institutions started to establish forums to enable students to employ their novel and creative ideas originating from fundamental concepts learnt in the classroom and to perpetuate the hands-on knowledge gained in the laboratory into a new product.

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

1. Institution's Innovation Council (IIC)
2. Centre for Innovation and Product Development (CiPD)
3. Business Incubator (BI)

The aforementioned wings at Nandha Engineering College aim to develop new products that will have a societal impact by leveraging exhaustive technology.

## 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 designed in alignment with department's Vision and Mission, PEOs, POs and PSOs. The Course Outcomes of each subject, POs and PSOs are framed with the views of Internal and External stakeholders and analyzed every year by the PAC and DAB Members.

The suggestions from the stakeholders are reviewed by the Chairman of BoS. The recommendation from the Chairman and the expert is taken into account and the curriculum is submitted for approval in BoS. Standing Committee consolidates the inputs from BoS and submits to Academic council. Academic Council scrutinizes and approves the proposals of BoS with regard to courses of study, academic regulations, curricula, syllabi and modifications.

OBE is adopted by the Institution since 2015-16. Keeping OBE in forefront, changes in regulations, inclusion of open elective, embedded and PBL courses are made besides enabling the students to pursue internships from second year onwards. CBCS is also adopted to provide freedom to students to select courses which enable them to learn at their own pace and undergo additional courses. Furthermore, needs at the regional and national levels are addressed by offering skill based courses, value added courses, online courses, PCD activities, MoUs and In - House companies.

File Description	Documents
Upload additional information, if any	<a href="#">View File</a>
Link for additional information	<a href="https://nandhaengg.org/wp-content/uploads/2023/01/1.OBE_.pdf">https://nandhaengg.org/wp-content/uploads/2023/01/1.OBE_.pdf</a>

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

13

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	<a href="#">View File</a>
Details of syllabus revision during the year	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

356

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

## 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	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format (Data Template)	<a href="#">View File</a>

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

16

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
List of Add on /Certificate programs (Data Template)	<a href="#">View File</a>

### 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

Curriculum for all the programs is designed by including courses pertaining to Professional Ethics, Gender, Human Values and Environment and Sustainability. As a supplement of this endeavour, various activities such as Seminars, Guest Lectures, Workshops and Awareness Programs etc. are organized throughout the year.

The curriculum encompasses courses like Professional Ethics, Professional Ethics and Human Values, Inter Personal Values, Personal Values etc., to instil in students a set of ethical norms and basic human values. Further, PCD activities and Blood Donation Camps are conducted periodically to inculcate the significance of service to the society.

The Institution fosters gender equity by providing equal opportunities for both the genders in terms of admission, training programs, co-curricular and extra-curricular activities. Moreover, the Institution has constituted Women Development Cell and Anti Sexual Harassment Cell to promote social respect, self-dignity, rights and comfort for women.

The courses related to environmental studies such as Environmental Engineering, Energy conservation in buildings, Sustainable agriculture, Soil and Water Conservation Engineering, Industrial Wastes Treatment and Disposal, Waste Management, Waste Water Treatment, Renewable Energy Technology, etc make students aware of the problems that are posing threat to the environment and to keep track of the effects of human activities on environment.

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	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

39

File Description	Documents
List of value-added courses	<a href="#">View File</a>
Brochure or any other document relating to value-added courses	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

1179

File Description	Documents
List of students enrolled	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

778

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

## 1.4 - Feedback System

1.4.1 - Structured feedback and review of the **A. All 4 of the above**

syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni

File Description	Documents
Provide the URL for stakeholders' feedback report	<a href="https://nandhaengg.org/wp-content/uploads/2023/02/feedback-analysis-and-ATR.pdf">https://nandhaengg.org/wp-content/uploads/2023/02/feedback-analysis-and-ATR.pdf</a>
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**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	<a href="https://nandhaengg.org/wp-content/uploads/2023/02/feedback-analysis-and-ATR.pdf">https://nandhaengg.org/wp-content/uploads/2023/02/feedback-analysis-and-ATR.pdf</a>
Any additional information	<a href="#">View File</a>

## 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

**758**

File Description	Documents
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>

**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)**

**476**

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of seats filled against seats reserved (Data Template)	<a href="#">View File</a>

## 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.

### Learning Level Assessment

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.

#### Slow learners

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

Tutorial classes and remedial classes are provided to facilitate slow learners. Periodic counseling sessions are arranged for the slow learners to motivate and perform well. Students are motivated to talk in English in every class hour either by recapitulation or concluding what had been taught to them. Academic problems are addressed in tutorial classes, assignments are evaluated and suggestions are given for improvements.

Every year, Lateral entry students undergo Bridge course at the beginning of the third semester.

#### Advanced learners

The institution encourages high performers to participate in competitions, Workshops, Association activities, Professional society activities, Co-curricular and Extracurricular activities.

Students with good academic excellence are encouraged to study online courses in NPTEL to acquire wide spectrum of knowledge in their domain area and to inculcate interest towards research.



File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/2-2-1/">https://nandhaengg.org/2-2-1/</a>

### 2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
31/05/2022	2890	229

File Description	Documents
Upload any additional information	<a href="#">View File</a>

### 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:

#### EXPERIENTIAL LEARNING

##### PBL/RBL (Project Based Learning/Research Based Learning)

In the curriculum PBL/RBL (Project Based Learning/Research Based Learning) are imparted to inculcate project skills in the domain of study. Knowledge gained through the PBL/RBL helps the students to do collaborative projects.

##### One Credit Courses

Skill-based courses in emerging areas are offered as One Credit Courses. These courses are handled by industry experts and faculty members.

#### PARTICIPATIVE LEARNING

##### Professional Society

Students are motivated to get enrolled in professional societies like CSI, ISTE, IETE, and IEI etc. Promotion of creativity and critical thinking among the students is accomplished through these forums

## Club Activities

The institute organizes various activities through Fine Arts club, Sports club, Photography club, Music club, Go-green club, Road safety club, National Service Scheme (NSS), National Cadet Corps (NCC), Youth Red Cross (YRC), Women Development Cell (WDC), etc., to inculcate moral and ethical principles in the students in turn to society.

## PROBLEM SOLVING METHODOLOGY

- Tamil Nadu State Council for Science & Technology (TNSCST) funds our student

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.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Link for additional Information	<a href="https://nandhaengg.org/2-3-1/">https://nandhaengg.org/2-3-1/</a>

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

## 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.

## Google Classroom

Classroom helps to streamline the process of sharing materials, assignments, boost collaboration, and to faster communication.

Students use classroom with many tools such as Gmail, Google Docs, and Google Calendar.

#### NPTEL

Students are encouraged to enroll for NPTEL courses and acquire knowledge pertaining to the domain. Course exemption is offered depending upon the credits.

#### Virtual Labs

Virtual labs are online simulation-based labs for various disciplines of Science and Engineering under the initiative of the Ministry of Education

?

#### 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](http://www.nandhaengg.org/images/cse/Ball_Game.pdf)

#### Youtube Link

<https://youtube.com/channel/UC71LbSzZfIPqNWiuRFa38Mg>

[https://youtube.com/channel/UCxc3N\\_WO4vjYKqXObjtVoEQ](https://youtube.com/channel/UCxc3N_WO4vjYKqXObjtVoEQ)

<https://youtube.com/channel/UCMOXbLyDoiKbpxhAcxYaVxQ>

<https://youtube.com/channel/UC1ZeKuk4wwaZolVi7Uehi4A>

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	<a href="https://nandhaengg.org/wp-content/uploads/2023/03/2.3.2_ICT-Tools.pdf">https://nandhaengg.org/wp-content/uploads/2023/03/2.3.2_ICT-Tools.pdf</a>
Upload any additional information	<a href="#">View File</a>

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

#### 2.3.3.1 - Number of mentors

159

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	<a href="#">View File</a>
Circulars with regard to assigning mentors to mentees	<a href="#">View File</a>

### 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 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.

#### Internal Quality Assurance Cell (IQAC)

IQAC calendar is prepared to enrich the quality and effective implementation of teaching learning process, Assessment, Research

and Development activities, Placement activities Laboratory audit and Academic audit. IQAC regularly conducts meeting with all the Department Heads to maintain quality of academic teaching and learning process. Student projects (In-house/Industrial), Placement activities, funding proposal are audited by the various parameters in IQAC.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	<a href="#">View File</a>

## 2.4 - Teacher Profile and Quality

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

229

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	<a href="#">View File</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

60

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	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

<b>7.27</b>	
File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
<b>2.5 - Evaluation Process and Reforms</b>	
<b>2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year</b>	
<b>15</b>	
File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
<b>2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year</b>	
<b>11</b>	
File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
<b>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</b>	
<b>Processes integrating IT</b>	
<ul style="list-style-type: none"> <li>• <b>Introducing of master course from academic council data form syllabus.</b></li> <li>• <b>Registration of students for Regular courses.</b></li> <li>• <b>Generate examination application form.</b></li> </ul>	

- 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 Degree Certificate
- Printing of Grade sheet, Consolidated Mark sheet for issuing to students.

#### Continuous Internal Assessment System

1. Receiving Academic Calendar from Academic Dean.
2. Collecting the following details from all the departments at the time of each semester reopening

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://nandhaengg.org/wp-content/uploads/2023/03/2.5.3_ADDL.pdf">https://nandhaengg.org/wp-content/uploads/2023/03/2.5.3_ADDL.pdf</a>

## 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 institution is implementing Outcome Based Education (OBE) by following the guidelines of the National Board of Accreditation

(NBA). In OBE, the Programme Educational Objectives (PEOs), Programme Specific Outcomes (PSO), Program Outcomes of each department are prepared and used to measure the outcomes, based on the Graduate Attributes (GAs).

**Process of Dissemination:**

- College Website - [www.nandhaengg.org](http://www.nandhaengg.org)
- Dissemination to the internal stakeholders

Displayed in all prominent places of department such as HoDs chamber, Department notice board, and 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)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Link for additional Information	<a href="https://nandhaengg.org/2-6-1-po-pso-co/">https://nandhaengg.org/2-6-1-po-pso-co/</a>

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

**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=  $0.6 * \text{ESE} + 0.3 * \text{CAT} + 0.05 * \text{Assignment} + 0.05 * \text{Online test}$

Direct Attainment for Laboratory=  $0.5 * \text{ESE} + 0.5 * (\text{CAT} + \text{Model})$

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

PO & PSO attainment = (Overall COx Attainment) \* ((Mapping value of PO and PSO for CO x) / 3) where, x is the number of COs

Likewise the attainment for all the courses is calculated and the Direct attainment level of a PO/PSO is determined by taking average across all courses addressing that PO/PSO. The Indirect attainment level of a PO/PSO is determined based on the student exit survey, employer survey and alumni survey. Finally the average of Direct and Indirect attainment states the Attainment of a PO/PSO.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://nandhaengg.org/wp-content/uploads/2023/03/2.6.2-POPSO_Attainment.pdf">https://nandhaengg.org/wp-content/uploads/2023/03/2.6.2-POPSO_Attainment.pdf</a>

### 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	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Paste link for the annual report	<a href="https://nandhaengg.org/wp-content/uploads/2023/03/CoE-Annual-report-2021-2022.pdf">https://nandhaengg.org/wp-content/uploads/2023/03/CoE-Annual-report-2021-2022.pdf</a>

## 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/2023/03/SSS-2022-1.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

#### 3.1 Promotion of Research and Facilities

The professional institution has framed a strong research policy to promote research interest and innovations in the emerging areas of Science, Engineering, and Technology to support a research culture among faculty members and research scholars to undertake interdisciplinary research. The excellence of research work directly translates to the excellence of teaching and learning in the classroom, benefiting students, society, and our country. The research activities encourage the academic programme by enriching the knowledge of the faculties in their field of expertise. The strength of the research initiatives is that they confirm to established norms and standards for the safe and ethical conduct of research. The well-defined research policy has been approved and uploaded on the college website. Our institute has constituted research committee by Principal with the Director and all the Heads and Deans are nominated as Research Composition Committee members to monitor research activities. The institution has 3 research centres offering Ph.D programmes in different disciplines viz Computer Science and Engineering (CSE), Electronics and Communication Engineering (ECE) and Mechanical Engineering (Mech). The Institution has conducted various

webinars, workshops, and FDPs to promote research in the areas of patents, publications, improving research visibility, etc.

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

### 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)

1,70,000

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	<a href="#">View File</a>
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	<a href="#">View File</a>
List of teachers receiving grant and details of grant received	<a href="#">View File</a>
Any additional information	No File Uploaded

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

6

File Description	Documents
e-copies of the award letters of the teachers	<a href="#">View File</a>
List of teachers and details of their international fellowship(s)	<a href="#">View File</a>
Any additional information	No File Uploaded

### 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)

32.37

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	<a href="#">View File</a>
List of projects and grant details	<a href="#">View File</a>
Any additional information	No File Uploaded

#### 3.2.2 - Number of teachers having research projects during the year

11

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://nandhaengg.org/wp-content/uploads/2023/02/3.2.2.pdf">https://nandhaengg.org/wp-content/uploads/2023/02/3.2.2.pdf</a>
List of research projects during the year	<a href="#">View File</a>

#### 3.2.3 - Number of teachers recognised as research guides

16

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	<a href="#">View File</a>
Institutional data in Prescribed format	<a href="#">View File</a>

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

6

File Description	Documents
Supporting document from Funding Agencies	<a href="#">View File</a>
Paste link to funding agencies' website	<a href="https://nandhaengg.org/wp-content/uploads/2023/02/3.2.4.pdf">https://nandhaengg.org/wp-content/uploads/2023/02/3.2.4.pdf</a>
Any additional information	<a href="#">View File</a>

### 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-Established in year 2014 aimed of creating spark of innovation in the students' mind and to expose them to the existing problems that need to be solved. It encourages the students to come up with ideas which have innovation, Intellectual Property Right component and potential commercial value. Business Incubator - Established in year 2016 and received Host Institution from MSME, Government of India in the year 2018. So far, 10 products launchedfor society. The MSME had sanctioned Rs.15 lakhs in year 2021 and 14.75 lakhs in year 2022. Institution's Innovation Council - Started in 2018 to create an ecosystem. To encourage the student to work on new ideas and innovation and promote to develop products, to develop better cognitive ability for Engineering/technology and to identify and reward innovations and share success stories, periodic activities with innovators/startups/entrepreneurs, professionals and creation of mentor pool, network with peers and national ED organizations.Entrepreneur Development Centre - Established in 2013 to enhance entrepreneurship awareness among

the student communities. Cell organizing entrepreneurial promotional programs to transform students into entrepreneurs once they complete their graduation besides creating entrepreneurial awareness among them with funding supports from various agencies.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/wp-content/uploads/2023/03/3.3.1-NEC-AY21-22.pdf">https://nandhaengg.org/wp-content/uploads/2023/03/3.3.1-NEC-AY21-22.pdf</a>

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

47

File Description	Documents
Report of the events	<a href="#">View File</a>
List of workshops/seminars conducted during the year	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 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	<a href="#">View File</a>
Any additional information	No File Uploaded

**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**

21

File Description	Documents
URL to the research page on HEI website	<a href="https://nandhaengg.org/research-activities/">https://nandhaengg.org/research-activities/</a>
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	<a href="#">View File</a>
Any additional information	No File Uploaded

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

58

File Description	Documents
List of research papers by title, author, department, and year of publication	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

134

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/wp-content/uploads/2023/02/3.2.4.pdf">https://nandhaengg.org/wp-content/uploads/2023/02/3.2.4.pdf</a>

**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**

30

File Description	Documents
Any additional information	<a href="#">View File</a>
Bibliometrics of the publications during the year	<a href="#">View File</a>

### 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

21

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 3.5 - Consultancy

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

7.993

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	<a href="#">View File</a>
List of consultants and revenue generated by them	<a href="#">View File</a>
Any additional information	No File Uploaded

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

1,50,000



File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	<a href="#">View File</a>
List of training programmes, teachers and staff trained for undertaking consultancy	<a href="#">View File</a>
List of facilities and staff available for undertaking consultancy	<a href="#">View File</a>
Any additional information	No File Uploaded

### 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

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 various awareness programmes in nearby villages to addresses the significance of social issues.

**Rotaract and Social club:**

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

**Personality and Character Development:**

The institution has vibrant clubs such as Organic Farming 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	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/personality-and-character-development/">https://nandhaengg.org/personality-and-character-development/</a>

#### 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

2

File Description	Documents
Number of awards for extension activities in during the year	<a href="#">View File</a>
e-copy of the award letters	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

#### 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)

30

File Description	Documents
Reports of the events organized	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

781

File Description	Documents
Reports of the events	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 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

186

File Description	Documents
Copies of documents highlighting collaboration	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

#### 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)

15

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	<a href="#">View File</a>
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	<a href="#">View File</a>
Any additional information	No File Uploaded

## 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 and is well connected to the state highways, with a 4,43,234 sq. ft area of built up structures with all essential amenities. All the classrooms (63 Nos) are equipped with LCD/LED Projectors/Smart TVs, Personal Computers, and Wired/Wireless

Internet connectivity. Among 63 classrooms, 51 are for UnderGraduate (UG) programmes and 12 are for PostGraduate (PG) programmes. 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 for various disciplines with state of the art facilities. Industry Sponsored laboratories in collaboration with the leading industries and funding agencies have been established in the frontier area of Engineering and Technology. Nandha Central Library is a three-storey building of 10,800 sq.ft intended to accommodate upto 250 students with adequate seating facilities. It has 61,555 Volumes, 19,263 Titles, 96 International Journals, 102 National Journals in addition to 77 Technical Magazines and 32 General Magazines. The Library has 13 different memberships and access to 8,820 e-books and 3,324 e-journals. NEC has enabled the Digital Library for viewing of e-content from NPTEL / SWAYAM portal and has also provided with a reprographic facility available on the first floor. A total number of 1,163 computers, 72 printers and 10 scanners are available throughout the campus for students' usage. Available bandwidth of internet connection in NEC is 1 Gbps which is connected with firewall secured 25 Wi-Fi connectivity access points.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/4-1-1/">https://nandhaengg.org/4-1-1/</a>

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

The college provides first-rate facilities on play fields for various games like Volleyball, Football, Cricket, Badminton, Hockey, Chess, Caroms etc., in the campus. The College conducts Annual Sports Meet and encourages students to participate in the Inter-Collegiate events. The Physical Education Department has all the facilities to promote sports and games among the students. The total area of the playground is more than 10 acres. The indoor auditorium in NEC is based on the plan of pliability of usage. The auditorium has a spanning area of 24,000 sq.ft. In addition, the indoor auditorium provides space for organizing academic seminars, conferences, workshops, Annual Day, etc., Yoga is a holistic practice that helps to gain overall balance and focus. Most students experience an increase in strength and

flexibility, decrease in stress level and tension in the muscles, and a feeling of mental clarity and peace. NEC has a well maintained and well managed 24x7 ATM facility within its campus, facilitating the students and staff members to perform all the required transactions safely. Nandha Engineering College, apart from providing scholastic education, takes responsibility for the mental and physical welfare of the students. By keeping this in forefront, the gym in NEC resonates with a sound mind in a sound body. Tie-ups have been established between the Institute and Nandha Medical College Hospital, as well as between the Institute and Krishna Medical Center, Perundurai to provide emergency medical treatment to NEC students.

File Description	Documents
Geotagged pictures	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/4-1-2/">https://nandhaengg.org/4-1-2/</a>

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

63 , 3

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<a href="#">View File</a>

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

177.46

File Description	Documents
Upload audited utilization statements	<a href="#">View File</a>
Details of Expenditure, excluding salary, during the years	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

## 4.2 - Library as a Learning Resource

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

Library is automated using Integrated Library Management System (ILMS)

Nandha Engineering Central Library (NECL) is fully automated and specially designed to motivate the learning experience of faculty members and students community. It havean 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 digital library is implemented with 32 desktopsystems and 20 Laptopusable desks for accessing 200 IEEE, 2952 JGate, 130 ProQuestonline journals, 8820 e-books, 31,535 Audio Visual coursesand 9202 Conference Proceedingswith back volumes. These can be accessed inside the campus on 24/7 basis via Wi-Fiand also through remote accessby using User name and Passwordfor 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.A 50 inch TVis installed along with Doordarshan dish to telecast 32 educational channelslaunched by Swayam Prabhato support Massive Open Online Course (MOOC) facility in the Periodical Section.The library has a unique website which has been designed with the help of free accessible online open sources by providing links. A Whatsapp broadcast grouphas been created for faculty members to deliver new arrivals, news clippings (articles, educational reports, other college news etc), e-books, etc.,

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/4-2-1/">https://nandhaengg.org/4-2-1/</a>

**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	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

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

12.03

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

**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**

269.2

File Description	Documents
Upload details of library usage by teachers and students	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 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

Our Campus had focused on best-in-class IT infrastructure and Applications development for Academic and Research support. The campus has been enabled internet service with 1024Mbps in administration top process. The Automation Centre maintains the Servers and Networks which provide Computing facility with Network connectivity, across the college and other buildings of the campus including hostels and quarters.

The Automation Centre works under one roof taking care of all the Network, Hardware, Software, Projector and UPS maintenance activities of the Institution. Email- ids for the students and staff are created by the Automation center.

Our campuses are equipped with wired and wireless internet access which require to access internet from class room to library to labs and residential areas such as hostels. 25

WiFi network systems are available, with highly secured internet firewall security and Antivirus protection for the entire systems, which are reused inside the campus. This will stop sophisticated application-layer threats right at the network perimeter, ensuring Application Security with Class A connectivity and parallel lines to ensure 24\*7 services. vXenon servers and Rack servers are mainly used for internet connectivity in our campus for high speed internet access. There is a Microsoft Campus Agreement, which is used for internet connectivity. vWAN connection with fiber optic cable for up to 2km across the campus is used and CAT 6 cable is used for LAN connectivity.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/4-3-it-infrastructure/">https://nandhaengg.org/4-3-it-infrastructure/</a>

### 4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
2890	1041



File Description	Documents
Upload any additional information	<a href="#">View File</a>
<b>4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus</b>	<b>A. 750 Mbps</b>
File Description	Documents
Details of bandwidth available in the Institution	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
<b>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</b>	<b>A. All four of the above</b>
File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/4-3-4-econtent/">https://nandhaengg.org/4-3-4-econtent/</a>
List of facilities for e-content development (Data Template)	<a href="#">View File</a>
<b>4.4 - Maintenance of Campus Infrastructure</b>	
<b>4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)</b>	
<b>177.21</b>	
File Description	Documents
Audited statements of accounts	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
<b>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.</b>	

The Institution has designed its own maintenance policy procedure that includes several methods to achieve the effective maintenance of physical, academic and other facilities. 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. A centralized maintenance section, headed by a maintenance manager and supported by skilled technicians. 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. Any problem that persists in a department is represented through the mentioned methods the complaints are posted in college reformation site. The supervisor/ skilled person/ technician is summoned to rectify the problem. The technician resolves the problem on site if no additional material is required. In case of material requirements, the materials are received from the maintenance section after the approval of the store manager. If the material is to be procured from outside, permission is to be obtained from the maintenance coordinator / administrative officer and arrangements are made for procurement of the material to resolve the problem. The completed work is inspected by the supervisors concerned .

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/4-4-maintenance-of-campus-infrastructure/">https://nandhaengg.org/4-4-maintenance-of-campus-infrastructure/</a>

## 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	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

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

1433

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>

**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	<a href="https://nandhaengg.org/capacity-development-and-skills-enhancement/">https://nandhaengg.org/capacity-development-and-skills-enhancement/</a>
Details of capability development and schemes	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

3294

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	<a href="#">View File</a>

**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	<a href="#">View File</a>
Details of student grievances including sexual harassment and ragging cases	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

## 5.2 - Student Progression

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

619

File Description	Documents
Self-attested list of students placed	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

### 5.2.2 - Number of outgoing students progressing to higher education

16	
File Description	Documents
Upload supporting data for students/alumni	<a href="#">View File</a>
Details of students who went for higher education	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
<b>5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year</b>	
<b>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</b>	
8	
File Description	Documents
Upload supporting data for students/alumni	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
<b>5.3 - Student Participation and Activities</b>	
<b>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</b>	
6	
File Description	Documents
e-copies of award letters and certificates	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution	
<b>Students Association:</b>	
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 with the entire class. The complaints will be resolved and the action 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	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/personality-and-character-development/">https://nandhaengg.org/personality-and-character-development/</a>

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

10

File Description	Documents
Report of the event	<a href="#">View File</a>
List of sports and cultural events / competitions organised per year	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

## 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 Poriyyal 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 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 mainly promotes the Industry interface, supports for 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	<a href="#">View File</a>
Paste link for additional Information	<a href="https://nandhaengg.org/alumni-at-nec/">https://nandhaengg.org/alumni-at-nec/</a>

**5.4.2 - Alumni's financial contribution during the year**

D. 2 Lakhs - 5 Lakhs

File Description	Documents
Upload any additional information	<a href="#">View File</a>

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

**Mission:**

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

**Nature of Governance:**

Activities includes starting new programs, establishing research centers, implementing choice-based credit system, relative grading, going through accreditation process involves all faculty members.



**Governing Council:**

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

**Institute Quality Assurance Cell:**

The objective is to build a structure for taking 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, extra-curricular activities, and Industry- Institute Partnership.

**Finance Committee:**

It ensures the financial resources and scrutinizes the budget and monitors utilization. It proposes budget for the financial year of departments and institute.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://nandhaengg.org/6-1-institutional-vision-and-leadership/">https://nandhaengg.org/6-1-institutional-vision-and-leadership/</a>

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

**Decentralization:** In order to facilitate decision-making related to academic and administrative activities faster and to ensure complete transparency, various decentralization strategies have been practiced. A Standing Committee for Academic Affairs consisting of the Director, Principal, IQAC members, and the Heads of various departments has been constituted. It meets once a week to review the progress in academics, research, placement, etc. Apart from this, Institution has various other committees, like Student Welfare Committee, Anti-Sexual Harassment Committee, Women Development Cell, Grievance Redressal Committee, Anti-

Ragging Committee, and Alumni Cell, etc., to take the right decisions. HoDs allot workload among the respective faculty members based on their areas of specialization.

**Institutional practices:** Various training activities like workshops, seminars, and webinars are initiated for students to meet the gap between Industry - Institution curriculum. The faculty is in-charge of the entire course execution.

**Participative management:** Management conducts periodical review meetings to discuss the activities of Institution/ Department related to students and faculty. Students' performance regarding Enrolment Ratio, Academics, Graduate outcome, Career guidance, Industrial visit, etc., and sports achievements are discussed. Faculty activities like Teaching - Learning, Development/Training, publication, copyright, patenting are monitored. Department activities include MoU signing, stakeholder visits, strategic planning, and implementation.

File Description	Documents
Upload strategic plan and deployment documents on the website	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://nandhaengg.org/6-2-strategy-development-and-deployment/">https://nandhaengg.org/6-2-strategy-development-and-deployment/</a>

## 6.2 - Strategy Development and Deployment

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

Our strategic plan is holistic and includes a number of interrelated components like Teaching Learning process, Infrastructure, Faculty and Supporting Staff Schemes, Students, Research and Development, Collaboration at National and International level Community engagement. The Institute's Strategic Committee was constituted in 2015, followed by a revised committee in 2021 with key institute leaders, faculty representatives, Industry Expert, Academic Expert from leading institution and Alumni. The team meets frequently for the growth of the Institution and strategic points are also discussed in Governing Body. The outcome of the 2016-2021 plan is analyzed, and the targets are set for 2021-2016. Planning and Monitoring

Committee meetings are conducted regularly, and the points are discussed and action is taken to achieve the target set. In the references, constitution of the strategic planning committee, outcome of the 2016-2021 plan, 2021-2026 strategic plan meeting dates, meeting minutes, and the committee targets, strategy, and expected outcome are attached.

File Description	Documents
Strategic Plan and deployment documents on the website	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/wp-content/uploads/2023/02/plan-and-deployment-doc.pdf">https://nandhaengg.org/wp-content/uploads/2023/02/plan-and-deployment-doc.pdf</a>
Upload any additional information	<a href="#">View File</a>

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:** The Institute functions through the delegation of power to Head of the Institution (The Principal) in consultation with the Chairman of Governing Council, and after the approval of Governing Council, the activities are planned. The IQAC team, Students and faculty members are vital in escalating and implementing decision-making processes and implementation.

**Governing Council:** The Governing Council, held once a year, plays an important role in academic decision-making, administration, and the overall growth of the institution. It makes all necessary efforts (Outcome-Based Education, infrastructure, equipment, etc.,) to create a student-centric environment. It monitors the strategic plan on continuous basis, provides appropriate advice and direction to the administration for its implementation and development.

**Statutory and Non- statutory Committees:** In addition, various statutory and non-statutory committees are actively involved in the activities that support the development of college and students.

HoDs are responsible for the academic and administrative matters of the department. The placement and training team takes care of

the training and placement activities.

File Description	Documents
Paste link to Organogram on the institution webpage	<a href="https://nandhaengg.org/wp-content/uploads/2023/02/Institution-organogram.pdf">https://nandhaengg.org/wp-content/uploads/2023/02/Institution-organogram.pdf</a>
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://nandhaengg.org/6-2-2-functioning-of-the-institutional-bodies/">https://nandhaengg.org/6-2-2-functioning-of-the-institutional-bodies/</a>

**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	<a href="#">View File</a>
Screen shots of user interfaces	<a href="#">View File</a>
Details of implementation of e-governance in areas of operation	<a href="#">View File</a>
Any additional information	No File Uploaded

### 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

The institution provides financial benefits for technical publications for teaching staff's growth in their professional careers:

Faculty is encouraged to attend conferences / workshops / FDPs and training programmes every year.

- Sponsorships for training programmes and present papers at Conferences
- To enhance the faculty skill set, FDPs are also organized.
- Internet and free Wi-Fi facilities are available in campus.

## General Facilities

- The institution has sports, gym, and yoga facilities.
- The campus has ATM facility.

## Leave Benefits

### Type of leave/ On-Duty

### Teaching

### Non-Teaching

### Casual Leave

12 Days/ year

### Medical Leave

10 Days/year

### Vacation

Winter - 2 Weeks Summer - 4 Weeks

Winter - 1 Week Summer - 1 Week

### Examination On Duty

12 Days/ year (Not limited)

### Higher Study OD

12 days/ Year

### Permissions

2 permissions per month

### Other Benefits

-Group Insurance

-Emergency advance for Medical Treatment

-Sponsorship for Higher Studies - D. Full Time / Part Time, PDF

- Sponsorship for Seminar/ Paper presentation- in India & Abroad
- Sponsorship for quality improvement programmes
- Revenue sharing by staff in consultancy/ testing (60:40 and 80:20)
- Free Lodging to staff staying in hostels
- Bank Loan at concessional interest rates through Indian Bank
- Fee concession for faculty wards in Nandha Institutions.
- Free transportation

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/6-3-1-welfare-measures-for-teaching-and-non-teaching-staff/">https://nandhaengg.org/6-3-1-welfare-measures-for-teaching-and-non-teaching-staff/</a>

### 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

46

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	<a href="#">View File</a>

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

21

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

#### 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.)

131

File Description	Documents
Summary of the IQAC report	<a href="#">View File</a>
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

#### 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 redress 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	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/6-4-1/">https://nandhaengg.org/6-4-1/</a>

#### 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)

2.575

File Description	Documents
Annual statements of accounts	<a href="#">View File</a>
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

#### 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	<a href="#">View File</a>
Paste link for additional Information	Nil

## 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, Coordinators, HODs, Senior Faculty Members .

### **Post Accreditation Improvements**

Nandha Engineering College has been granted autonomous in the year 2013 and choice-based credit system is implemented from 2015 onwards. Outcome-Based Education is administered as per AICTE-NBA. The college has received NBA Accreditation under Tier-I for three UG programs: CSE, IT and ECE

### **Teaching -Learning**

Student learning is assessed through Continuous Assessment Tests, Periodic Assignments, Quizzes and an End of Semester Examination is administered through 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 2021 - 22:**

New programme (B.Tech - Artificial Intelligence & Data Science) is started during the academic year 2021-22.

**Accreditation Quality Initiatives:**

Strategies for the improvisation includes

- Research sharing and networking with other institutions in India and abroad.
- Plan to offer new programmes as per AICTE norms.
- Improvements in Centre of Excellence.
- Placement pay scale above 10 lakhs.
- Industry oriented curriculum

MoU with premier institutions and industries.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/naac-certificate/">https://nandhaengg.org/naac-certificate/</a>

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 conducted for course file. Course Outcome, attainment process are reviewed recurrently.

**Teaching Learning Process**

The institution follows Choice Based Credit System (CBCS) and adopted the AICTE model Curriculum of 160 credits since 2018-19. The curriculum is 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. During the academic year 2021-22, a new regulation and Curriculum R22 was framed based on the National Education Policy (NEP) and it is implemented from the academic year 2022-23. 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	<a href="#">View File</a>
Paste link for additional information	<a href="https://nandhaengg.org/6-5-2/">https://nandhaengg.org/6-5-2/</a>

**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	<a href="https://nandhaengg.org/6-5-3/">https://nandhaengg.org/6-5-3/</a>
Upload e-copies of accreditations and certification	<a href="#">View File</a>
Upload details of quality assurance initiatives of the institution	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

## **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

Gender Sensitization is an important area to address gender justice and gender equality issues. To achieve gender equity the institute conducts these seminars, debates, and group discussions. In order to obtain the progressive awareness among students towards gender issues, awareness campaigns on gender sensitization are regularly. Women Development Cell was established in the year 2012. The objective of this cell is to empower Women in all aspects to work with dignity and to have working environment safe and to enhance appropriate work conditions in respect to health and hygiene. Apart from that, a 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. Parents and tutors are timely informed before and after the counselling and the same reports will be handed over by the counsellor to the parents. Well furnished rooms with necessary facilities with separate cots and pillows, mirror, chair, table, wash basin, dustbin, etc., Surveillance camera is installed in every nook and corner of 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	No File Uploaded
Paste link for additional Information	<a href="https://nandhaengg.org/7-1-1/">https://nandhaengg.org/7-1-1/</a>

**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	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

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)

The college is very keen in minimizing the waste and recycling it by passing through the scientific ways that enable the used

materials to be recycled ensuring that less natural resources are used. Waste generated in the campus is segregated as solid waste, liquid waste and e-waste and taking the social clubs have played a prominent role in this by organizing various awareness programs, conducting tree plantations and various other activities.

- **Solid waste management:**For the collection of regular solid waste, garbage bins are kept at different places in the campus. Biodegradable organic wastes such as dry leaves, yard trimmings, and waste from kitchen are subjected to the composting process.
- **Liquid waste management:**Sewage Treatment Plant with the purification capacity of 2, 00,000 litres per day has been installed near Boys Hostel.
- **Biomedical waste management:** In the department of bio medical engineering, used needles and sharps are destroyed using an electrical device called Sharps and Needle destroyer.
- **E-waste management:**Recycled water acts as an alternate for existing water supplies and be used to enhance water security, sustainability and resilience.
- **Hazardous chemicals and radioactive waste management:**Policies are framed to manage the hazardous chemicals in chemical laboratories.
- **Waste recycling system**

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	<a href="#">View File</a>
Geotagged photographs of the facilities	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**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	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

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

A. Any 4 or All of the above

File Description	Documents
Geotagged photos / videos of the facilities	<a href="#">View File</a>
Various policy documents / decisions circulated for implementation	<a href="#">View File</a>
Any other relevant documents	<a href="#">View File</a>

### 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	<a href="#">View File</a>
Certification by the auditing agency	<a href="#">View File</a>
Certificates of the awards received	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**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	<a href="#">View File</a>
Policy documents and brochures on the support to be provided	<a href="#">View File</a>
Details of the software procured for providing assistance	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

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 environment for everyone by advocating tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities. Various activities like Annual day, Women's day, Unity day, Science day, Yoga, etc are organized to promote an inclusive environment.**

Further Socioeconomic awareness programs like Youth awakening day, Helmet awareness for public, Book day rally, Blood donor camp and various rallies are organized to the general public which in turn inculcate the students with some responsibilities within them. Religious festival like Onam is celebrated inside campus and Diwali is celebrated with orphanage children and the funds raised from the college are being donated to orphanages. A variety of clubs like NSS, Road Safety, etc are included in the curriculum under Personality and Character Development (PCD) course so that every student must indulge in any one activity for each semester. Clubs are added to curriculum and are functioning under the PCD. The institution provides a culturally inclusive environment with mutual respect, effective relationships and effective rapport. The institution believes in equality of all cultures and traditions as it is evident from the fact that students belong to different caste and religion are studying in the college without any discrimination.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View File</a>

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

Nandha Engineering College organizes various events to sensitize students and Employees of the Institution to the Constitutional Obligations: Values, Rights, Duties and Responsibilities of citizen. 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. Our Institution we believe in giving holistic all round education to the students. And sensitizing students on our constitutional rights, values, duties and responsibilities of primary education have given in the institute through various means.

Sensitization of students and employees of the Institution to the constitutional obligations is done through curriculum as well as through extra-curricular activities. In curriculum, the subjects which sensitize the students about the constitutional obligations are Essence of Indian traditional knowledge and Also, Constitutions of India, etc. Further a course on Environmental



Studies is being offered to give insight into environment acts, wildlife protection act, forest act and global environmental concerns. Besides, many regular programs are conducted in the Institution to educate women about their rights. Also seminars and workshops are conducted on days of national importance on various rights, duties and responsibilities of citizens.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**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	<a href="#">View File</a>
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	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

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

At Nandha Engineering College, all national festivals are celebrated with great enthusiasm to inculcate a sense of patriotism in the students.

Independence and Republic are celebrated every year and the students have been participating in various events depicting the different cultures of our country. The NSS unit and the students' association organise many cultural programs to address prevailing social issues.

The Institution also commemorates the birth / death anniversaries of great Indian personalities like Dr.A.P.JAbdul Kalam, Dr. Babasaheb Ambedkar, Chatrapati Shivajimaharaj, and Mahatma Gandhi. The students share the principles of these eminent personalities through speeches and posters. 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. To inculcate the importance of Yoga among Yoga, International Yoga day is celebrated and faculty and students are performed Yoga and meditation. 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 manage the personal and professional life and for their contributions.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	<a href="#">View File</a>
Geotagged photographs of some of the events	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

## 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

**Best Practice 1:**In - house companies draw the attention of the students as it provides industrial platform during their academic tenure. A target is essential for each student who aspires to get placed. Setting realistic goals for individual students give them a sense of direction and purpose, and help them improve productivity levels. In-house team suits the companies ready to invest in the recruitment processes, in the development of the team and ready to organize amicable work environment for

students. Nandha Engineering College aims to bridge the gap between industry and academia.

Best Practice 2: 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. The experiences, the students gain through PCD, positively influence their emotional, intellectual, social, and inter-personal development. Taking part in the out-of-the-classroom activities helps students to understand the importance of critical thinking, time management, academic and intellectual competence and connect them with society. Working with diverse groups of individuals allows the students to gain more self-confidence, autonomy and appreciate others' differences and similarities.

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

### 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)

Acceleration in the technological advancement in recent times urges the students to be industry-primed by acquiring eclectic skills while graduating from the institutes of higher education. The advancements will encourage, inspire and nurture young students by exposing them to new ideas and processes resulting in innovative activities. In consistent with the above, the technical institutions started to establish forums to enable students to employ their novel and creative ideas originating from fundamental concepts learnt in the classroom and to perpetuate the hands-on knowledge gained in the laboratory into a new product.

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

#### 1. Institution's Innovation Council (IIC)

2. Centre for Innovation and Product Development (CiPD)
3. Business Incubator (BI)

The above mentioned wings at Nandha Engineering College aim to develop new products that will have a societal impact by leveraging exhaustive technology.

File Description	Documents
Appropriate link in the institutional website	<a href="https://nandhaengg.org/7-3-institutional-distinctiveness/">https://nandhaengg.org/7-3-institutional-distinctiveness/</a>
Any other relevant information	<a href="#">View File</a>

#### 7.3.2 - Plan of action for the next academic year

1. College Vision and Mission statements are to be revised and department vision and mission statements to be reframed in accordance with the above statements.

2. A new curriculum R22 is to be proposed based on AICTE curriculum and R2021 Anna University.

3. Faculty members to register for NPTEL course and upskill their knowledge for better outcome.

4. Faculty members to focus research work and improve their publications in high quality journals. To improve the number of research proposals for various funding agencies.

5. 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.

6. To conduct more programs related to higher studies and entrepreneurship for student benefits