



YEARLY STATUS REPORT - 2023-2024

Part A

Data of the Institution

Part A	
Data of the Institution	
1.Name of the Institution	National Engineering College
• Name of the Head of the institution	Dr. K.Kalidasa Murugavel
• Designation	Principal
• Does the institution function from its own campus?	Yes
• Phone No. of the Principal	04632222502
• Alternate phone No.	04632230227
• Mobile No. (Principal)	9442280227
• Registered e-mail ID (Principal)	principal@nec.edu.in
• Address	K.R. Nagar, Nalatinputhur
• City/Town	Kovilpatti
• State/UT	Tamilnadu
• Pin Code	628503
2.Institutional status	
• Autonomous Status (Provide the date of conferment of Autonomy)	05/05/2011
• Type of Institution	Co-education
• Location	Rural

• Financial Status	Self-financing				
• Name of the IQAC Co-ordinator/Director	Dr.L.Kalaivani				
• Phone No.	04632222502				
• Mobile No:	9843008500				
• IQAC e-mail ID	iqac@nec.edu.in				
3.Website address (Web link of the AQAR (Previous Academic Year)	https://nec.edu.in/wp-content/uploads/2025/01/AQAR_2022-2023.pdf				
4.Was the Academic Calendar prepared for that year?	Yes				
• if yes, whether it is uploaded in the Institutional website Web link:	https://nec.edu.in/academic-calendar/				
5.Accreditation Details					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	B++	2.83	2017	22/02/2017	21/02/2021
Cycle 2	A	3.08	2022	07/06/2022	06/06/2027
6.Date of Establishment of IQAC			06/06/2013		
7.Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?					
Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount	
National Engineering College	i-TBI	DST	26/03/2024	Rs. 488.16 lakhs	
8.Provide details regarding the composition of the IQAC:					
• Upload the latest notification regarding the composition of the IQAC by the HEI			View File		

9.No. of IQAC meetings held during the year	2	
<ul style="list-style-type: none"> • Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website? 	Yes	
<ul style="list-style-type: none"> • If No, please upload the minutes of the meeting(s) and Action Taken Report 	No File Uploaded	
10.Did IQAC receive funding from any funding agency to support its activities during the year?	No	
<ul style="list-style-type: none"> • If yes, mention the amount 		
11.Significant contributions made by IQAC during the current year (maximum five bullets)		
<ul style="list-style-type: none"> • Coordinating quality related activities such as NBA, NAAC, NIRF, AICTE-CII survey, ARIIA and IIC 4.0 • Measuring the quality targets based on various cadres of faculty members, departments, institute and analyzing the gap, and taking follow up action. • Arranging training for the various competency requirements by the academic experts. • Creating an indigenous NEC Learning Management Systems platform for the active Teaching Learning process. • Conducting Academic and administrative audit to ensure the conducive learning environment. • Establishing an innovation ecosystem by Conducting hackathons and entrepreneurial development programs. 		
12.Plan of action chalked out by IQAC at the beginning of the academic year towards quality enhancement and the outcome achieved by the end of the academic year:		

Plan of Action	Achievements/Outcomes
<p>Improving the career settlement of the students.</p>	<ul style="list-style-type: none"> • Our student got placed in various reputed companies with the highest salary of 16 LPA and an average salary of 4.75LPA. • Almost 83.67% of placement willing students got placed in well reputed core and IT industries. • During the academic year 2023-24, 451 students of our college have been placed and got 527 offers in reputed companies through campus recruitment.
<p>Being mandatory for all faculty members to attend Faculty Development Programs in reputed institutions in the upcoming years</p>	<ul style="list-style-type: none"> • 85 percent of the faculty members have attended Faculty Development Programs during the year. • Short-term courses, Faculty Development Programme, and workshops attended by our faculties to update their knowledge in various fields. Our faculty members have attended around 238 events in the areas of their specialization, teaching pedagogy, and managerial development programs. • In addition to the above, many of our staff members have undergone various NPTEL online courses and secured good academic ranks. Also, our staff members have delivered guest lectures on different topics and acted as judges and chairpersons for various programmes in various other institutions.
<p>The faculty members are motivated by the Research and Development Review Committee to publish their research finding in SCI journals and apply research funding in various agencies.</p>	<ul style="list-style-type: none"> • In this academic year, our faculty members have published around 66 papers in SCI-indexed journals and 75 papers in scopus indexed journals. This year, our institution's H-index has been raised to 65. • Our faculty

members and students of various departments have presented 37 research papers at National & International Conferences held at various institutions. • 7 faculty members have obtained their Ph.D. degree during this academic year. • 4 faculty members have submitted their thesis leading to Ph.D. degree. • So far 43 faculty members are recognised as Supervisor by Anna University, Chennai. • 35 faculty members and 15 full-time scholars are pursuing their Ph.D. Programme during this year. • To promote the research activities of the faculty members, incentives are rewarded to them for their contribution to funded research projects, consultancy, patents, and publications in reputed journals with impact factors. This year, Rs 14,71,914/- is rewarded as incentives to the faculty members concerned for their research activities.

Providing various Placement oriented training programs such as BEC, CODE IT, communication skill training, C programming and Python for the students

• Several Programs were organized for students regarding placement. • 2000 students were participated in various inter and intra college programmes during the academic year 2023-2024. Out of which 200 students were received in various competitions. • Two batches of Mechanical Engineering students project proposals have been shortlisted for funding of Rs. 50,000/- from ISHRAE. • Seenivasan.R, Balaganesh.P, Stephen Jebaraj.M, and Mathavan.B of the Mechanical Engineering Department students

	<p>received cash prizes of Rs. 40,000/- in the Bharath Cycle Design Challenge (BCDC) competition organized by the AICTE, at Chanakya University, Bangalore.</p>
<p>All the faculty members are encouraged to attend industrial training in every year.</p>	<ul style="list-style-type: none"> • 30 percent of Faculty member have undergone Industry Know How Program, which is financially supported by the Institute.
<p>Planned to organized funded programs for the benefit of the faculty and students</p>	<ul style="list-style-type: none"> • Centre for faculty and Professional Development, Anna University Chennai has sanctioned Rs. 35,000/- to CSE Department to organize Six days faculty development training programme on
<p>Planned to increase the funding for project and consultancy</p>	<ul style="list-style-type: none"> • Indian Space Research Organization, Department of Space, sanctioned a fund of Rs. 18,90,960/- under the scheme of Respond Basket 2022 for a project titled "Denoising Algorithm for Noise reduction in MEMS Sensors" to Dr.M.Willjuice Iruthayarajan, Dr.B.Vigneshwaran & Mr.M.Sivapalanirajan of EEE department • DST (SERB) has sanctioned Rs.38,76,550 for a project on "Crashworthiness Characteristics of Bio-Inspired Thin-Walled Conical Tubular Members" to Dr.M.Kathiresan of Mechanical Engineering Department. • Ministry of Education (MoE), Government of India has selected project titled on "Investigation of Integrated Greywater treatment using Filtration and Phyto-remediation" under Unnat Bharat Abhiyan (UBA) scheme for sanctioning Rs.1,00,000/- to Mr.B.Gowtham of Civil

	<p>Engineering Department . • MSME, New Delhi has sanctioned Rs.9,00,000 for a project on "An Intelligent Device to classify organic and non-organic fruit and vegetable items using IR Thermography technique" to Dr.A.Saravanaselvan of ECE department.</p>
<p>To develop products through students projects and to get patents through innovative products</p>	<p>• There are 10 patents filed, and 16 patents were granted for invention during the academic year 2023-2024.</p>
<p>Students are encouraged to become entrepreneurs with pioneering ideas through NEC Business Incubator Cell K.R. Innovation Center</p>	<p>? National Engineering College has been recommended by National Expert Advisory Committee (NEAC) to establish i-TBI, under NIDHI i-TBI program by DST, with the funding support of Rs. 488.16/- lakhs. ? 94 ideas have been submitted to Ministry of MSME for "MSME Idea Hackathon2.0" during Dec2022 and 3 ideas have been selected with the fund of Rs.31.75 Lakhs for product development. ? 181 ideas have been submitted to Ministry of MSME for "MSME Idea Hackathon3.0 for Women" during Dec2023 and 3 ideas have been selected with the fund of Rs.39.2 Lakhs for product development ? M/s. Cogniot Technology Private Limited incubated at KRIC has been sanctioned with Rs.25.5 Lakhs fund from Indian Railway for the idea "E-seal development for protecting Parcel wagons of Indian Railway". ? CSR fund of Rs. 10 lakhs received from KR Exports private limited, Kovilpatti for the financial year 2023-24. ? Host institute supported 8 incubates with the</p>

support of Rs. 2 lakhs ? K.R. Innovation Centre, National Engineering College organized a four-week Technology Based Entrepreneurship Development Online Programme on "Internet of Things for Healthcare, Agriculture, Smart City, Smart Home, Supply Chain and Smart Vehicle Applications" from June 5th, 2023 to June 30th, 2023. There are 23 training programs were conducted. The programme was sponsored by Department of Science and Technology, New Delhi with the funding support of Rs.1,60,000/-. A total of 42 faculty, students, entrepreneurs from all over India were participated.

To get consultancy projects through industrial know how program by faculty members

- The Department of Civil Engineering has generated Rs 6.32 lakhs through consultancy works such as structural design vetting, soil and water quality testing for the Rural Development & Panchayat Raj, WE Entertainment, Chennai, and Public Works Departments during the academic year 2023-2024. •
- The Department of Mechanical Engineering generated the fund of Rs. 2,59,500 through energy auditing consultancy works for Biological E Pvt. Ltd., Hyderabad, ITC Dairy Plant, Private Colleges, Hotels, etc. •
- The Department of CSE generated fund of 2 lakhs from TRYCAE Industrial Engineering Pvt. Ltd., Trichy, for the consultancy services for a VR and AR project for the Indian Navy under the Image Processing Research Center entitled "Design

	<p>and Development of Virtual Assistants with AI/ML and AR Tools, Deployed onboard Ships and Submarines to Support Maintenance Crew for Radar Systems.".</p> <ul style="list-style-type: none"> • The Department of ECE, EEE, and IT jointly received the fund of Rs. 48,000 through training consultancy work for handling courses in the titles C Programming, Fundamental Programming for Industry 4.0, and RasperryPi for V.O.Chidambaram College, Tuticorin. • The Department of EEE generated a fund of Rs. 1,06,000 as a consultancy for implementing the project titled "Automatic Irrigation System".
<p>To Publish research papers in SCI Journal by PG students and Scopus journals by UG & PG students</p>	<ul style="list-style-type: none"> • 5 SCI journals, 41 Scopus publications and 41 IEEE Conference publications have been published through student projects
<p>NPTEL Certification by Students Faculty Members. Co - Curricular and Extra Curricular Activities</p> <p>The following co - curricular and extra - curricular activities enable the students to acquire soft skills and interpersonal skills.</p>	<ul style="list-style-type: none"> • 71 percent of faculty members have done NPTEL certification
<p>Conducting awareness programs and programs related to Entrepreneurship for the students</p>	<ul style="list-style-type: none"> • 10 Programs were conducted for our students through ED cell and IIC.
<p>Improving alumni interaction for the benefit of the students</p>	<ul style="list-style-type: none"> • 4 Programs were arranged by NEC alumni chamber and more no. of interaction have been made through every departments
<p>Conducting various Guest lectures and alumni interaction on current topic</p>	<ul style="list-style-type: none"> • Various clubs like NSS, NCC and Social Awareness camp have been conducted in and around

	Kovilpatti
Organizing Industrial Visit based on their discipline	<ul style="list-style-type: none"> • 16 Programs were conducted for our students through ED cell and IIC.
Organizing Industrial Visit based on their discipline	<ul style="list-style-type: none"> • Various clubs like NSS, NCC and Social Awareness camp have been conducted in and around Kovilpatti
Planned to conduct workshop to enhance the skills among the students in the Odd Saturdays Social Activities The following social activities will be carried out to give humanitarian Perspective and values of life to our college students and to give knowledge and technological exposure to the students of rural area.	<ul style="list-style-type: none"> • 22 Program is conducted for school students
Conducting laboratory practical sessions for rural area school students Implementation of e - learning for school students in villages	<ul style="list-style-type: none"> • It is planned to provide E-learning session for the school students in upcoming year
Arranging orphanage visit for our students	<ul style="list-style-type: none"> • NSS Volunteers visited orphanage regularly during festivals.
13. Was the AQAR placed before the statutory body?	Yes
<ul style="list-style-type: none"> • Name of the statutory body 	
Name of the statutory body	Date of meeting(s)
Governing Council	13/03/2024
14. Was the institutional data submitted to AISHE ?	Yes
<ul style="list-style-type: none"> • Year 	

Year	Date of Submission
2023-2024	20/01/2025

15. Multidisciplinary / interdisciplinary

Delineate the vision/plan of institution to transform itself into a holistic multidisciplinary institution. In Regulation 2019, we have courses which supports holistic and multidisciplinary education under the trans-disciplinary category such as Indian History, Indian Culture and Heritage, Global challenges and issues, Sustainable development and practices, Indian Economy, International business management, Impact of social media on society etc., An ethic of social engagement, a course on Soft Skills and Interpersonal Communication is offered to students. In 2023 Regulation we have a plan to introduce more courses such as Introduction to philosophical thoughts, Introduction to Art and Aesthetics, Indian music system in the Non-CGPA category. The institution has taken initiatives in offering verticals under multidisciplinary domains for award of degree in Honors, Honors with specialization in the same discipline and minor degree for other discipline. Delineate the Institutional approach towards the integration of humanities and science with STEM and provide the detail of programs with combinations. Already the curriculum has been designed with various components which includes Basic science courses (13 to 17%), Humanities and management courses (4 to 8%), Engineering Science courses (12 to 20%), Program core courses (30 to 45%), Program elective courses (9 to 15%), open elective courses (4 to 11%), skill development courses which includes project (7 to 9 %) and mandatory courses such as environmental science and Engineering and Constitution of India. In align with industry requirements, more elective courses are offered in multidisciplinary domains. Does the institution offer flexible and innovative curricula that includes credit-based courses and projects in the areas of community engagement and service, environmental education, and value-based towards the attainment of a holistic and multidisciplinary education. Explain Yes. The institution offer flexible and innovative curricula that includes credit based courses and projects in the areas of community engagement and service, environmental education and value-based towards the attainment of a holistic and multidisciplinary education. A course on Innovation through design thinking has been introduced in the first year, with the course outcome of practice design thinking process through a multidisciplinary task. Through Product development laboratory course, Project work -I and Project work -II, students are motivated and engaged in developing prototype model for societal problems. Students are exposed to industry

experience through internship in the reputed companies. The students have the provision to study the courses related to personality and development and to practice in allied skills and value based education under non-CGPA category. Environmental education and awareness is being given to the students through curriculum and through non-CGPA courses. What is the institutional plan for offering a multidisciplinary flexible curriculum that enables multiple entry and exits at the end of 1st, 2nd and 3rd years of undergraduate education while maintaining the rigor of learning? Explain with examples. The current regulation R 2019 has been designed with Engineering Science courses and skill development courses from first year onwards. Electives are offered from second year onwards in addition with core courses. Programming oriented courses are introduced in all disciplines to enable the students to place in software companies through internship from third year onwards. Industry oriented trainings are given to the students through one credit courses by Industry expert for enabling the students to get placement in core companies. Students have the choice to select elective courses in multidisciplinary domain for getting placement opportunities in diversified field and also for self learning. In 2023 Regulation, we have a plan to introduce flexible curriculum to support employable skills at the end of 1st year, 2nd year, 3rd year and final year. What are the institutional plans to engage in more multidisciplinary research endeavours to find solutions to society's most pressing issues and challenges? To bring research culture, interdisciplinary projects, research are encouraged among the students and faculty. One practical course on Research paper and patent review seminar has been introduced in the final year in addition to project works. NEC NEWGEN IEDC centre has been established to support multidisciplinary commercial viable products. So far 44 patents were filed from the outcome of the multidisciplinary projects. To achieve high quality research ambience in the institute, NEC has research centres recognized by Anna University, Chennai in the faculty of Information and Communication Engineering, Electrical and Electronics Engineering, Mechanical Engineering and Chemistry. The institution encourages collaborative research work with R&D institutions and industries to find solutions to societal problems. Describe any good practice/s of the institution to promote Multidisciplinary / interdisciplinary approach in view of NEP 2020. Institution promotes multidisciplinary skills to the students through the courses such as design thinking, critical thinking, problem solving techniques, product development lab etc.. Students are allowed to take courses from other programmes through open elective category. Students can choose the set of courses from other programmes in the form of minor degree.

16.Academic bank of credits (ABC):

Describe the initiatives taken by the institution to fulfil the requirement of Academic bank of credits as proposed in NEP 2020. Institution has taken initiatives to fulfill the requirements of Academic bank of credits (ABC) as proposed in NEP 2020. As a first step, the institution follows digital evaluation of the papers, showing the evaluated papers digitally before publish of results, digital storage of papers and further to digital storage of marksheets with grades and credits. This facilitates the use of ABC for credit transfer across higher educational universities. The ABC facilitates multiple-entry multiple exit, anytime anywhere learning, allows student to study at their own pace. Whether the institution has registered under the ABC to permit its learners to avail the benefit of multiple entries and exit during the chosen programme? Provide details. The institution has registered under ABC for digitally storing the academic credits. So far first semester data of current second year students (483) have been uploaded via National Academic Repository (NAD) portal for enabling students mobility across Higher Educational Institutions. Describe the efforts of the institution for seamless collaboration, internationalization of education, joint degrees between Indian and foreign institutions, and to enable credit transfer. The institution permits students to earn credits through online courses such as NPTEL, SWAYAM and other online platforms such as EDX, Coursera subject to a maximum of 15 credits. Some of the one credit courses are handled by industry expert as a collaborative work. Students projects are jointly guided by industry mentors and internal faculty members. How faculties are encouraged to design their own curricular and pedagogical approaches within the approved framework, including textbook, reading material selections, assignments, and assessments etc. In our autonomous institution, faculties are encouraged to design their own curricular and pedagogical approaches for the effective teaching and learning process. Each academic department is having several domain expert groups which are consisting of faculty members with same technology interest. Every faculty member is allowed to undergone industrial know-how in reputed industries, faculty development program organized by IITs/NITs/IIITs and NPTEL course every year to understand the current trends and technology on the domain-of-interest. Based on the domain knowledge acquired by the faculty members, they are framing the curriculum with foundational courses and courses with current trends to reduce the gap between academia delivery & industrial expectation from the graduates. Each academic department is collaborating with reputed industries through memorandum of understanding for faculty training, student internship, consultancy work, and curriculum design. As the

outcome of the MoU, NEC establishes Technobation centres for the industries inside the campus. Faculty members are interacting with the industrial experts while framing the curriculum. Keeping in mind the employability, innovation and research in emerging fields, social relevance and social needs, the contents of the syllabus are framed by the faculty and presented in the Board of Studies (BOS) for recommendation. The suggestions given by the BOS members are incorporated and presented during Academic council meeting for approval. While framing the syllabus, faculty members suggest the relevant and standard books to be included. In course committee meeting, group of faculty members who are all handling the particular course, discuss about the content delivery methods, assessment procedure and rubrics for evaluation. Describe any good practice/s of the institution pertaining to the implementation of Academic bank of credits (ABC) in the institution in view of NEP 2020. As a initial step, awareness about ABC has been given to faculty and students. At present all first year students have registered and generated ABC ID card through Digi Locker portal and students shall view the dash board for further process .The credits of the students have been uploaded in the NAD portal. In the future, all students' data would be uploaded in the portal for the students mobility across higher education Institution. Faculties are encouraged to attend workshops related to NEP 2020.

17.Skill development:

Describe the efforts made by the institution to strengthen the vocational education and soft skills of students in alignment with National Skills Qualifications Framework Students are encouraged to attend technical symposium, paper presentation, Hackathon to showcase the soft skills and for further exploration. Students are motivated to do a quality project work, paper publication in reputed journals, internship in reputed companies, patent filing etc., in align with National Skills Qualifications Framework. Provide the details of the programmes offered to promote vocational education and its integration into mainstream education. As per the guidelines of Anna University Chennai, Engineering courses are offered in different programmes along with multi disciplinary courses. How the institution is providing Value-based education to inculcate positivity amongstthe learner that include the development of humanistic, ethical, Constitutional, and universal human values of truth (satya), righteous conduct (dharma), peace (shanti), love (prem), nonviolence (ahimsa), scientific temper, citizenship values, and also life-skills etc. In the first year before the start of academic classes, the students are undergoing induction program for 15 days to inculcate value education. The induction program, enable

the students to explore Universal human values, holistic vision of life with right understanding, mutual happiness and mutual prosperity. The importance of feelings or core values such as trust (foundational value), respect, affection, care, guidance, reverence, gratitude, glory and love (complete value) are taught in the induction programme. Through the course on Constitution of India, students are aware of constitution and its frame work. To understand the professional and ethical responsibilities, a course on Professional ethics and human values has been introduced in the curriculum. Students are powerful assets to the society. To impart one of the basic life skill, Yoga for youth empowerment course is offered to the students to improve their focus, control, emotional balance and stress management. NCC and NSS activities provide the life management skills for the students. The course on critical thinking and design thinking are offered to the students for empathy making and to come up with innovative product. Enlist the institution's efforts to: Design a credit structure to ensure that all students take at least one vocational course before graduating. Vocational courses are training based courses that aim at preparing students for a particular career, skill or trade. The industry need courses are offered as value added courses as one credit course which are equivalent to one vocational course, offered in each department. After successful training for one or two months, assessments are carried out and successful trainers are provided with certificate. The credit structure is designed with many one credit courses in each department in collaboration with industries. This provision facilitates the students to place in core/software companies. Engaging the services of Industry veterans and Master Crafts persons to provide vocational skills and overcome gaps vis-à-vis trained faculty provisions. The industry experts play a vital role in framing the curriculum and syllabus. The industry experts contribute his services to fill the gap between the academic and industry. They used to visit the institution twice in a month and demonstrate the experiments as industrial perspective. Our faculty is also visiting the industry and get trained in particular domain, and transforming the knowledge gained into projects. Students visits the industry once in year for further updation of knowledge and skills. To offer vocational education in ODL/blended/on-campus modular modes to Learners. NPTEL/SWAYAM, IGNOU are offering vocational courses through online platform. Our students are permitted to register in the online courses and are allowed for credit transfer as elective courses. It can be a one, two or three credit courses. NSDC association to facilitate all this by creating a unified platform to manage learner enrolment (students and workers), skill mapping, and certification. In the first phase, students are enrolled in a Naan Mudhalvan scheme portal, which are

coming under NSDC association and undergone psychometric test (robust candidate assessment) in the portal. 17 faculties have been trained under this scheme in various emerging areas such as machine learning, artificial intelligence, IOT Enabled applications, Augmented reality and Virtual reality etc., The courses were handled by industry experts during the training. Skilling courses are planned to be offered to students through online and/or distance mode. Under the Naanmudalvan Initiative, the Government of Tamilnadu has launched Nalaiya Thiran - an experiential project-based learning program, with Anna University as the University Ecosystem Partner, IBM as the Technology Partner, ICT Academy as the Support Partner, and NASSCOM as the Skills Certification Partner. IBM has identified 50 industry problem statements for which students shall build solutions while they undergo 100 hrs. of project-based learning as an elective course with 3 academic credits. Under this scheme, the students of Computer science and Engineering, Information Technology and Electronics and Communication Engineering undergone a course through online mode on 'Professional readiness on Innovation, Employability, Entrepreneurship', under the mentors and evaluators of institutional faculty and industry expert. Describe any good practice/s of the institution pertaining to the Skill development in view of NEP 2020. Keeping in mind the skill development of the students, institution has taken many initiatives through Curriculum. Introduced "Innovation through Design thinking" two credit , integrated course, in the first year curriculum. To handle the course effectively, first faculty member were given training. In the first phase, all faculty members were given training on Design thinking, handled by IITM Professor Dr.S.Ganesh. In the second phase, thirty faculty members attended the workshop organized by Industry mentors Mr.Selvakumar Palaniappan and Mr.Balaji from M/S.Atol Syntel, Tirunelveli . 3. Introduced theory course on Problem solving techniques (3 credits) and Problem solving techniques laboratory course (2 credits) in the first year. 4. A course on product development laboratory (two credit, integrated) has been introduced in the sixth semester for need identification, target specifications, concept selection, prototyping and demonstration 5. Internship in reputed companies is must for students to have industrial experience. Students will work under industry mentor for about 3 months in a specific area. Credits can be claimed after successful completion, submitting report and evaluation by team of experts including industry mentor. 6. Introduced Project management and finance as a core paper in the final year as a three credit course for the successful implementation, monitoring and control of projects. Students will do Project in the final year as a theoretical study / analysis / prototype design / modeling and simulation or a combination of these

for societal problems.

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

Delineate the strategy and details regarding the integration of the Indian Knowledge system (teaching in Indian Language, culture etc,) into the curriculum using both offline and online courses. At present, all the courses are taught in English only. In the future, with the guidelines from Anna University, necessary initiatives will be taken. What are the institutions plans to train its faculties to provide the classroom delivery in bilingual mode (English and vernacular)?Provide the details. At present faculty class room delivery is in English only. Provide the details of the degree courses taught in Indian languages and bilingually in the institution. At present all the degree courses are taught in English only. Describe the effortsof the institution to preserve and promote thefollowing: Indian languages (Sanskrit, Pali, Prakrit and classical, tribal and endangered etc.) Indian ancient traditional knowledge Indian Arts Indian Culture and traditions. Describe any good practice/s of the institution pertaining to the appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course) in view of NEP 2020.

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

Describe the institutional initiatives to transform its curriculum towards Outcome based Education (OBE)? OBE is the student centric approach, which enables the students for better employability, as entrepreneur, as researcher after the graduation through need based curriculum and development process. The role of stakeholders such as faculty, Alumni, academic experts and industrial experts are vital in the OBE framework. Institutional targets and department targets are fixed. In order to achieve the target, various meetings such as class committee meeting, faculty meeting, parent's teachers meetings, department advisory board meeting are conducted periodically to monitor the progress of the students. The institution involves internal and external academic experts from reputed Academic institutions and industry experts for the curriculum development process by including them in the Board of Studies (BOS) and Academic Council which are statutory bodies that are responsible for the Curriculum development process. Student representatives are also involved in the BOS and Academic Council meetings. Student feedbacks are collected through exit survey and class committee meetings. Student outcomes are measured based on the number of students placed in a company, number of students selected for higher educations, number of entrepreneurs etc., Explain the

efforts made by the institution to capture the Outcome based education in teaching and learning practices. Outcome-Based Education (OBE) has been implemented in our Institute since 2013. OBE emphasizes what is expected from the student when they finish their course. In line with OBE, Program Specific Outcomes (PSOs), Program Outcomes (POs), and Course Outcomes (COs) have evolved. The COs attainments are calculated based on the threshold, target, no. of students attained threshold in continuous assessment test and End Semester Examinations. Program Outcomes (POs) are aligned with the Graduate Attributes defined by NBA. Program Specific Outcomes (PSOs) are specific and relevant to a particular program. After CO-PO, CO-PSO mapping, CO-PO, CO-PSO attainments are calculated and analyzed for further improvement in teaching learning practices. Based on the attainments, the content delivery method, assessment procedure is modified to meet the OBE requirements. Describe any good practice/s of the institution pertaining to the Outcome based education (OBE) in view of NEP 2020. The vision, mission, POs, and COs are explained to first-year students and other stakeholders during the induction and orientation program. The course instructor outlines the justifications and methods for attaining the Course Outcomes. While beginning the course, the course instructor explains the process used to achieve COs and the assessment tools used to measure that attainment. The students are issued a course syllabus copy and course plan with COs. The students are briefed about the course outcomes and program outcomes at the start of the semester in the classes, course plans, and class committee meetings. The assessment of CO is mandatory for Lab and Theory courses. The assessment of COs is done based on the assessment pattern fixed for the particular course by the Course Coordinator and Instructors. The calculation of attainment is based on the student's performance in every category in direct and indirect methods. During the commencement of the semester, the target value for the course will be fixed by the Course Coordinator and Instructors. The method of assessment is informed to the students clearly. The Faculty members team will do a review of the assessment in due course, and suggestions will be provided for the necessary actions for improvement. The calculation of COs of a course is measured by both the direct and indirect assessment tools. Direct assessments are made from the performance in continuous internal assessments, assignments, tutorials, mini project and project work review, seminars, quizzes, Course exit survey, and end semester examination. Indirect assessment is made from the Course End Survey. The direct and indirect assessments are given 90% and 10% weightage, respectively. The Course Coordinator and Instructor frame the course end survey questions to indirectly find the student's confidence level in the COs. The theory courses consider the periodical test marks, end-semester examinations,

assignments, and innovative practices (Quiz, seminars, open-book tests, etc.). The course instructor needs to map questions to specific COs in the Assessment-CO matrix. For the practical course, the assessment tool is based on the continuous assessment of every experiment. The experiments completed by the students are evaluated based on Rubrics, including their knowledge in designing, conducting, and analyzing the results. At the end of the course, the Course Coordinator and Instructor measure the attainment of COs based on the above assessment methods and report about their observations and actions that need to be taken for further improvement in the assessment process.

20.Distance education/online education:

Delineate the possibilities of offering vocational courses through ODL mode in the institution. So far no vocational courses are offered in the institution through ODL mode. Describe about the development and use of technological tools for teaching learning activities. Provide the details about the institutional efforts towards the blended learning. In our institution, we have the facility to provide blended learning education to our students. We have Moodle Learning management System (LMS) through which students can access the learning materials, Students have the provision to submit their assignments attending Quiz etc.,

Extended Profile

1.Programme

1.1 11

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.Student

2.1 2291

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	View File

2.2 577

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3 593

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

File Description	Documents
Institutional Data in Prescribed Format	View File

3.Academic

3.1 690

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2 166

Number of full-time teachers during the year:

Extended Profile	
1.Programme	
1.1 Number of programmes offered during the year:	11
File Description	Documents
Institutional Data in Prescribed Format	View File
2.Student	
2.1 Total number of students during the year:	2291
File Description	Documents
Institutional data in Prescribed format	View File
2.2 Number of outgoing / final year students during the year:	577
File Description	Documents
Institutional Data in Prescribed Format	View File
2.3 Number of students who appeared for the examinations conducted by the institution during the year:	593
File Description	Documents
Institutional Data in Prescribed Format	View File
3.Academic	
3.1 Number of courses in all programmes during the year:	690
File Description	Documents
Institutional Data in Prescribed Format	View File

3.2	166
Number of full-time teachers during the year:	
File Description	Documents
Institutional Data in Prescribed Format	View File
3.3	166
Number of sanctioned posts for the year:	
4.Institution	
4.1	351
Number of seats earmarked for reserved categories as per GOI/State Government during the year:	
4.2	75
Total number of Classrooms and Seminar halls	
4.3	1362
Total number of computers on campus for academic purposes	
4.4	1399
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.

The curriculum is framed to meet the scope of employability / entrepreneurship for the benefit of our students and meet the needs of local, regional, national, and global Developments. Courses in the curriculum are framed by following the Programme Educational Objectives, Programme Outcomes, Programme Specific Outcomes and Course Outcomes. The course outcomes of various courses have been articulated based on internationally recognized

Graduate attributes of Engineering. The course components are meticulously included to provide engineering knowledge with technical and soft skills and articulate ethical behavior. Courses are framed based on the initiatives, strategies and plans executed by the Government of India (Make in India, Digital India, Startup India, National Afforestation Programme, National River Conservation Plan, Atal Bhujal Yojana (ABHY), National Anticorruption Strategy, Udaan Scheme, Digiloker, Smart City Projects, National Health Mission, NitiAyog-National Strategy for Artificial Intelligence, Rashtriya Madhyamik Shiksha Abhiyan (RMSA), Integrated - Information and Communication Technology (ICT), Solar Charkha Mission, Ujwal Bharat, Swachh Bharat mission, Sagar Mala project, Pradhan Mantri Krishi Sinchayee Yojana, JaalSakthi, etc.,) to meet up the needs of local, regional, national and global development.

File Description	Documents
Upload additional information, if any	View File
Link for additional information	https://nec.edu.in/aqar-2023-2024/

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

12

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	No File Uploaded

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

957

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	View File
MoUs with relevant organizations for these courses, if any	No File Uploaded
Any additional information	No File Uploaded

1.2 - Academic Flexibility

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

89

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	No File Uploaded
Institutional data in prescribed format (Data Template)	View File

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

12

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	No File Uploaded
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

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

Beyond technical aspects, the curriculum design and development

has reasonably dedicated to sensitizing students by imparting socially, professionally, and ethically relevant issues as part of the curriculum for cultivating their personality traits. Human values and Professional Ethics: All UG programmes have three credit mandatory courses on Professional Ethics and Human Values. The courses like Project Management, Human Resource Management, Cyber Law and Ethics, Human Resource Development and Organizational Behavior, Industrial Psychology and Organizational Behavior, Personality Development through Life Enlightenment Skills, Value Education, Stress Management through Yoga practices are introduced. Environment and Sustainability: The Environmental Science and Engineering course is introduced in all programmes. The courses like Safety, Health and Environmental Engineering, Renewable Energy Sources, Solar Photovoltaic Energy Conversion, Energy Conservation, and Waste Heat Recovery, Global Challenges and Issues, Sustainable Development and Practices are offered to maintain a healthy environment. Gender: courses like Constitution of India, Women in Indian Society, Indian Culture and Heritage have been introduced as transdisciplinary courses. With the focus on the need to counsel the young minds, women empowerment cell is constituted to address the various issues faced by students in academic and personal life.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	No File Uploaded

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

13

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	No File Uploaded
Any additional information	No File Uploaded

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

497	
File Description	Documents
List of students enrolled	View File
Any additional information	No File Uploaded

1.3.4 - Number of students undertaking field work/projects/ internships / student projects**1116**

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	No File Uploaded

1.4 - Feedback System

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

A. All 4 of the above

File Description	Documents
Provide the URL for stakeholders' feedback report	https://nec.edu.in/wp-content/uploads/2025/01/Feedback.pdf
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File
Any additional information	No File Uploaded

1.4.2 - The feedback system of the Institution comprises the following

A. Feedback collected, analysed and action taken made available on the website

File Description	Documents
Provide URL for stakeholders' feedback report	https://nec.edu.in/wp-content/uploads/2025/01/Feedback.pdf
Any additional information	No File Uploaded

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

569

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

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

339

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

2.2 - Catering to Student Diversity

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

Students from rural backgrounds and different vernacular mediums of instruction are identified, and suitable stream-based bridge courses are conducted right from the beginning of the academic year. An active mentor system allows identifying the varied academic needs and suggesting appropriate measures for both slow and advanced learners.

SPECIAL PROGRAMS FOR SLOW LEARNERS:

Bridge courses are conducted for second-year Lateral Entry Students on Mathematics and English related courses. Special coaching classes are arranged for the slow learners beyond the regular class schedule on specific days for each course.

SPECIAL PROGRAMS FOR ADVANCED LEARNERS:

In the academic year 2023-2024, 3496 students have registered for NPTEL courses, with 1963 completed certifications. Four hundred and Four students have received certificates in various courses through the IITB spoken tutorial scheme. Students are encouraged to organize various technical events and project competitions through different professional societies.

Advanced learners are highly motivated to take competitive exams such as GATE, TANCET, MAT, and CAT, and they are given coaching to help them succeed. Advanced students are encouraged to compete in National/International level coding competitions.

The "KR Innovation Centre", "Entrepreneur cell" and "Incubation Centre" helps to develop innovative ideas into a prototype and helping for patent and commercialisation.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://nec.edu.in/aqar-2023-2024/

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
31/05/2024	2291	166

File Description	Documents
Upload any additional information	View File

2.3 - Teaching- Learning Process

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

Experimental Learning:

Practical Courses- The curriculum is designed to provide students with hands-on experience in all courses to validate their theoretical knowledge. **Internships and Internshala-** As per regulation, each student must complete Industrial Training or Internships for a minimum period of four weeks. **Industrial Projects/Industrial Visit** Department and College level placement coordinators arrange industrial projects and Industrial visit for final year students with the guidance of industry experts.

Participative Learning : Active Learning- Active learning methods like role plays, group discussion, problem-solving, and case studies are suitably identified based on course content practiced in the classroom. Modern teaching pedagogy like Jigsaw, Mud cards, and Think Pair Share is being implemented to attract student participation. **Blended Learning-** Faculty members practice NEC-MOODLE based LMS systems to share recorded lectures and course materials, conduct assessment, and collect feedback and survey about teaching methods and attainment of course outcome.

Problem-solving methodologies : Problem-solving through Project-based learning- Students are encouraged to associate with faculty members to carry out Mini and Major project works in their areas of interest from the second year onwards. **Engaging in research-oriented projects-** Students actively involved in projects with faculty members and publishing papers in Scopus and SCI journals.

File Description	Documents
Upload any additional information	View File
Link for additional Information	https://nec.edu.in/wp-content/uploads/2024/04/2.3.1-correct.pdf

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

NEC Moodle helped a lot in the teaching-learning process as well as assessment. The faculty members can post their recorded video lectures, e-books, PowerPoint presentations, and lecture notes. The students' views on the materials can also be ensured. The periodical assessment for each course outcome like Quiz, Active Quiz, and assignment is conducted through MOODLE. Classrooms are equipped with smart monitors, and Laboratories have a Projector facility to handle live demonstrations during class and Laboratory

sessions. The Central Library provides excellent library facilities for all the students and faculty members, such as sufficient books and journals, attractive modern building with high-speed Wi-Fi connectivity, Web OPAC, web-based Library Automation, etc. It has the subscription of IEEE (ASPP) and Elsevier (Science Direct) online journals and Institutional members of DELNET, e- Shodh Sindhu, Shodganga, and NDLI Club. e-Learning Management System (e-LMS) that customizes the content of NPTEL Videos and includes our college contents such as ejournals, e-books, and e-question banks, etc. The students, faculty, and research scholars access the e-resources and download the relevant and needed articles. A firewall-restricted user-id-based Wi-Fi facility for internet access is provided on laptops and mobile devices for effective learning.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://lms.nec.edu.in/
Upload any additional information	View File

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

2.3.3.1 - Number of mentors

140

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

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

The Institute follows a strategy to prepare the academic calendar for every year well in advance before the commencement of classes. The calendar is designed in coordination with the Director, Principal, Heads of Departments, Association in-charges, Professional chapter in-charges, and various club in-charges. The academic activities include reopening of classes, course registrations, student induction programmes, class committee

meetings, internal assessment test, conduction of placement training, conferences, seminar activities, examination time tables, academic audit, conduction of Board of Studies, Academic Council meetings, parents-teachers meeting and holidays are scheduled in the calendar.

Preparation of Teaching Plan

The teaching plan is prepared by the faculty members handling the courses and uploaded in the for students' access. The teaching plan for a particular course contains.

- Course outcomes
- Textbooks and reference books list
- Number of hours required for each topic
- Delivery method Assessment told to be followed for each course outcome CO and Internal mark evaluation
- Procedure Target and threshold percentage. Rubrics for Evaluation of Cognitive and Affective domain
- Mapping of Course Outcome (CO) with Programme Outcome (PO)

The Academic Audit committee verifies the course file whether activities are carried out as per the teaching plan at the end of the academic year.

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

2.4 - Teacher Profile and Quality

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

166

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

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

DLitt during the year**76**

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	No File Uploaded

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)**1552.66**

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	No File Uploaded

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****42.5**

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

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year**2**

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	No File Uploaded

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

In Continuous Internal Assessment, performance is evaluated by two internal examinations for theory courses and one model examination for the practical courses. In addition, various continuous assessments are conducted with appropriate weightage. For project work, three reviews are conducted.

In End Semester Examinations:

Questions are prepared for all the courses. The examination schedule and instructions is prepared and disseminated. Question papers are set by the subject experts and scrutinized. External audit is conducted periodically. Unbiased valuation is ensured through a dummy number system. Transparent evaluation system is also maintained by showing the answered scripts to the students before the processing of results.

Pre-Examination Process

It includes nominal roll preparation, course work registrations exam applications, question paper setting and scrutiny, practical exam, hall tickets, seating arrangements, invigilation duties, dummy numbering, and foil cards.

Post Examination Process

The End semester answer scripts are evaluated and Result Passing Board analyses and approves results. Grade sheets and consolidated mark statements are issued with various security features.

IMPACT

Integration of ICT has enhanced the quality of functioning of the CoE office and has resulted in quick publication of results.

Showing all the answer scripts of ESE to the students helps to achieve greater transparency

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://nec.edu.in/overview/

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

- Outcome-Based Education (OBE) has been implemented in our Institute since 2013 as OBE emphasizes what is expected from the student when they finish their course. In line with OBE, Program Specific Outcomes (PSOs), Program Outcomes (Pos), and Course Outcomes (Cos) have evolved. OBE is mandatory in all regulating bodies like NBA and NAAC etc. OBE provides/helps the student to achieve the outcomes of significance before leaving the Institute
- The Program Outcomes (POs) and Course Outcomes (COs) are specifically stated for all the courses of the program published on the college website and also displayed at prominent places in the department such as classrooms, laboratory halls, seminar halls, faculty rooms, the entrance of the department and department library. Also, it is available in syllabus books, laboratory manuals, and course plans and also uploaded in the LMS portal. The course outcomes (COs) are given in the syllabus of every course. The syllabus also provides the mapping of COs with both POs and PSOs. The students are issued a course syllabus copy and course plan with COs.
- The vision, mission, POs, and COs are explained to first[1]year students and other stakeholders during the induction and orientation program.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	View File
Link for additional Information	Nil

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

Outcome-Based Education (OBE) has been implemented in our Institute since 2013 as OBE emphasizes what is expected from the student when they finish their course. In line with OBE, Program Specific Outcomes (PSOs), Program Outcomes (Pos), and Course Outcomes (Cos) have evolved. OBE is mandatory in all regulating bodies like NBA and NAAC etc. OBE provides/helps the student to achieve the outcomes of significance before leaving the Institute.

The Program Outcomes (POs) and Course Outcomes (COs) are specifically stated for all the courses of the program published on the college website and also displayed at prominent places in the department such as classrooms, laboratory halls, seminar halls, faculty rooms, the entrance of the department and department library. Also, it is available in syllabus books, laboratory manuals, and course plans and also uploaded in the LMS portal. The course outcomes (COs) are given in the syllabus of every course. The syllabus also provides the mapping of COs with both POs and PSOs. The students are issued a course syllabus copy and course plan with COs.

The vision, mission, POs, and COs are explained to first[1]year students and other stakeholders during the induction and orientation program.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

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

593

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	View File
Paste link for the annual report	Nil

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://nec.edu.in/wp-content/uploads/2025/01/2.7-SSS.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

National Engineering College(NEC) has a well-defined policy to promote research, consultancy, and IPR. The promotion of the research and the research policies are discussed periodically in the governing board, Academic Council, and research advisory board meetings. In support of our vision and to strengthen the quality of research and development in all our research centers, the InstitutionResearch Fellowship Scheme is implemented exclusively for full-timePh.D. The institutional research fellowship ofRs.10,000/- per month is given to the full-time Ph.D. Scholars. The Institute offers funds and on-duty for the faculty members to attend seminars, workshops, orientation programs, and refresher courses to update their existing knowledge and procure additional information.

The Institute encourages the faculty by providing incentives for peer-reviewed publications, sponsored research projects, and consultancy. The Institute has a unique training program, "Industry Know How" for staff members to enrich their knowledge to get the consultancy from Industry. The Institute provides full financial support to participate in the "Industry Know-How" program. The institute creates awareness about Intellectual

Property Rights among faculty, researchers, and scholars. The Institute takes care of the patent filing process, which is governed by the Research policy of the Institute.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	https://nec.edu.in/wp-content/uploads/2023/10/rdpolicy-final.pdf
Any additional information	No File Uploaded

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)

0

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	View File
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	No File Uploaded
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

0

File Description	Documents
e-copies of the award letters of the teachers	No File Uploaded
List of teachers and details of their international fellowship(s)	View File
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)

111.4

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

3.2.2 - Number of teachers having research projects during the year

4

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://nec.edu.in/sponsored-research/
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

47

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

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

2

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	https://nec.edu.in/sponsored-research/
Any additional information	View File

3.3 - Innovation Ecosystem

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

National Engineering College (NEC) has established a business incubator (NEC-BI) in the year 2015. NEC-BI is recognized by the Ministry of MSME, New Delhi, and is purely devoted to all the innovators and entrepreneurs emerging from south India. Further, it has also established a special purpose vehicle K.R. InnovationCentre (KRIC), a section 8 company in the year 2018 to support the activities of business Incubation in our Institution. National Engineering College Allocates 1% of its total annual budget to accelerate the activities to support incubation in addition to the CSR funds to the worth of Rs 10, 00,000/- (Every Year).

The Entrepreneurship Development Cell was established in our institute on 22.01.2015. NEC, ED Cell, was awarded the "NewGeneration Innovation & Entrepreneurship Development Centers (NewGenIEDCs)" scheme in 2017-2018 funded by NSTEDB & DST. The NEC NewGenIED center was established in NEC and completed four academic years thereby developing 65 numbers of commercially viable products. Forty-five numbers of patents are filed from the

outcomes of the said projects, and three student start-ups are created. Beyond product development, the center actively functions by conducting various Entrepreneurship orientation programs, entrepreneurship lecture series and encouraging the TechnoEntrepreneurial culture among the students

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://nec.edu.in/innovation/

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

26

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	No File Uploaded

3.4 - Research Publications and Awards

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

A. All of the above

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

18

File Description	Documents
URL to the research page on HEI website	https://nec.edu.in/research/
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
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

168

File Description	Documents
List of research papers by title, author, department, and year of publication	View File
Any additional information	No File Uploaded

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

6

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://nec.edu.in/journal-publications/

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**

860

File Description	Documents
Any additional information	No File Uploaded
Bibliometrics of the publications during the year	View File

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

3.4.6.1 - h-index of Scopus during the year

6

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	No File Uploaded

3.5 - Consultancy

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

13.563

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	View File
Any additional information	No File Uploaded

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

13,56,300

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

The National Service Scheme (NSS), National Cadet Corps (NCC), and Rotaract Club of National Engineering College have conducted numerous extension activities to promote holistic student development while addressing critical social issues. These initiatives focus on fostering community engagement, teamwork, and responsibility. Key NSS activities include the Eye Donation Awareness Rally, promoting support for the visually impaired, and the Fire and Safety Awareness Program, educating students about emergency responses during Diwali. The Sapling Plantation Drive, held for Janjatiya Gaurav Divas, encouraged environmental responsibility. NCC cadets actively participated in events like the Swachhta Abhiyan Drawing Competition, advocating cleanliness, and the Anti-Drug Awareness Program, raising awareness about substance abuse. Healthcare-focused programs like the Blood Donation Camp and volunteering at an Eye Health Camp showcased empathy and service. The Rotaract Club extended its impact to the community with events such as the World No-Tobacco Day Rally and the International Drug Abuse Day Rally, creating public awareness of health issues. These activities connect students to their communities, addressing societal challenges and promoting discipline, patriotism, and sustainability. Participants gain practical skills, empathy, and civic responsibility, empowering them to be proactive citizens and leaders committed to social progress.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://nec.edu.in/student-affair/

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

29

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	View File
Any additional information	No File Uploaded

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)

220

File Description	Documents
Reports of the events organized	View File
Any additional information	No File Uploaded

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

14959

File Description	Documents
Reports of the events	View File
Any additional information	No File Uploaded

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

234

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	No File Uploaded

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)

18

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

The departments are functioning in separate blocks and each has more than the required number of classrooms are equipped with traditional chalkboards and about 90% are equipped with Smart TVs, LCD Projectors, and quality audio systems with internet connectivity. Collarmics stands for capturing live lectures, and speakers, smart tabs, HD cameras, and headphones are available for handling online classes. Advanced computing facilities with computers, including the latest configuration systems with licensed and open-source software. Rack-mounted blade servers, Storage Area Networks, Cisco Routers, and Sonic Firewall are also available. The college has 155 Mbps & 310Mbps Internet connectivity from Airtel, and Reliance.

It has 500KVA, 320KVA, and 200KVA power generators and also Solar Energy. Hostel accommodation for both male and female students is available in halls. 30 buses are available for transporting staff and students. Indian overseas Bank, ATM facility, TCP Cell, Store

for Stationeries, Canteen, Cafeteria, post office, dispensary for both boys and girls, reprographics center, Various Forums/Clubs for cocurricular and extra-curricular activity, and Alumni Chamber with video conferencing facility.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

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

Adequate facilities are available for playing outdoor games, sports, gymnasium, yoga, and cultural activities. The open playground is being used to conduct games such as Football, Handball, Kabaddi, Tennis Courts, hockey, and Cricket fields. The students are trained to compete at the zonal, interzonal, state, and national levels. The Institution regularly organizes zonal-level sports events such as Anna University Zone-18 Zonal cricket tournament, basketball Men Tournament, National level weight lifting, state-level chess tournament, and Women ball badminton tournament. In addition to this, the basketball court and cricket practice net facilities are available on the campus.

The gymnasium hall houses exercise equipment, including 16 Station Multi-Gym, a Motorized Tread Mill, and a Smith Machine. Single-station gyms are installed in hostels. The auditorium is effectively utilized for yoga activities, and the meditation hall is also there on campus.

The Institution conducts certification courses to the students. The auditorium (with a seating capacity of 900) and seminar halls are utilized to conduct cultural programs. The students perform folk dances, banjara dances, music, plays, mono acting, traditional events like Silambam, Martial Arts, Etc. The students have participated in cultural competitions and won prizes.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	View File
Paste link for additional information	Nil

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

72

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

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

410.9

File Description	Documents
Upload audited utilization statements	View File
Details of Expenditure, excluding salary, during the years	View File
Any additional information	No File Uploaded

4.2 - Library as a Learning Resource

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

The Library has a rich collection of 63,005 volumes of books and 25,306 titles, 38 National Journals and Technical Magazine, 3476 Back volumes, 6644 e-books, 3317 CDs, 6053 Project reports, and 19 Newspapers (both English & Tamil).

The Central Library has a subscription of Science Direct - Engineering & Computer Science online journals, IEEE core collection of Engineering, Electronics and Computer Science online

journals, EBSCO Engineering core collections of e-Books, and Institutional members of DELNET, NDLI Club, e-ShodhSindhu and NLIST.

Open Access System is being followed. In addition to the well-stocked departmental Library, each department has its own Library to facilitate easy access for the Faculty, Students, and Research Scholars. Library Automation: Central Library was automated in 1998 by using LIBASOFT and AutoLib Software in the year 2004. Currently, the NEC Library has used InsProPlus Integrated Library Management Software since August 2011. Name of the ILMS Software: InsPro Plus Nature of Automation (fully or partially) : Fully Automated.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://erp.nec.edu.in/erp/Default_LoginPage.aspx https://erp.nec.edu.in/opac/

**4.2.2 - Institution has access to the following:
e-journals e-ShodhSindhu Shodhganga
Membership e-books Databases Remote
access to e-resources**

A. Any 4 or more of the above

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

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

21.31

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

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

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

4852

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

4.3 - IT Infrastructure

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

IT infrastructures: Computer Systems

The college has a well-established IT infrastructure and facilities and has been upgraded regularly depending on the necessity.

Core i7 : 155

Core i5 : 976

Core i3 : 23

Dual Core an Core2 Quad: 181

Server : 18

Peripherals

Printers : 62

Scanners : 10

Xerox Machine : 26

155Mbps Airtel(1:1) and 310Mbps Reliance(1:1) leased line internet connectivity.

The entire campus is connected with fibre backbone, and internal blocks are connected with local area networks with 310Mbps (1:1) high-speed internet connectivity to all computer systems, Ruckus access points with Ruckus wireless controller (Zone Director3000), high-speed advanced servers such as IBMX3650M3, HP make of Domain servers, ERP Server, Linux Server, Web Servers and Moodle LMS Server, HPDL380Gen10 Fileserver, HPDL380 Gen9 server with 48TB storage capacities available in the college.

SophosXG550firewall,WiFi coverage is used to provide secured internet access along with a monitoring system. All faculty members provided with College Mail id (@nec.edu.in).

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
2299	1362

File Description	Documents
Upload any additional information	View File

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

A. 50 Mbps

File Description	Documents
Details of bandwidth available in the Institution	View File
Upload any additional information	No File Uploaded

4.3.4 - Institution has facilities for e-content

C. Any two of the above

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

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil
List of facilities for e-content development (Data Template)	View File

4.4 - Maintenance of Campus Infrastructure

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

818.6

File Description	Documents
Audited statements of accounts	View File
Upload any additional information	No File Uploaded

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.

National Engineering College has the infrastructure to provide its teaching, learning, and research programmes. The Institute has an established system for electrical maintenance and mechanical maintenance to utilize computers, classrooms, equipment, and laboratories on the college campus.

Physical facility:

The mechanical maintenance engineer maintains the physical facilities. Estate office, RO system, Furniture, Fire and safety, water management, plumbing, Sewage treatment system, and Gardening services taken care by his team. The electrical engineer is responsible for Electrical, Networking, system and peripherals, intercom, public addressing system, CCTV, and AC systems.

Classroom, Laboratory Maintenance:

Classroom furniture, teaching facility, and laboratories are maintained by the department faculty members and monitored by the respective department Head of the department. Maintenance and Utilization of Seminar Halls and Auditorium: The respective head of the department regularly monitors department seminar halls. Auditorium cleanliness is taken care of by the mechanical maintenance team.

Maintenance of Sports and Games Facility:

The sports equipment's, fitness equipment's, ground, and various courts are Monitored and maintained by the Physical Director.

E-waste Management Process:

The following unused items have been collected in department wise and sent it as E-Waste.

- Computers
- UPS & Batteries
- Xerox Machine and Printers

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

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

1168

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	View File

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

75

File Description	Documents
Upload any additional information	View File
Institutional data in prescribed format	View File

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

A. All of the above

File Description	Documents
Link to Institutional website	https://nec.edu.in/
Details of capability development and schemes	View File
Any additional information	No File Uploaded

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

1523

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

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of

A. All of the above

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

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	No File Uploaded

5.2 - Student Progression

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

477

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	No File Uploaded

5.2.2 - Number of outgoing students progressing to higher education

15

File Description	Documents
Upload supporting data for students/alumni	View File
Details of students who went for higher education	View File
Any additional information	No File Uploaded

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

3

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	No File Uploaded

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

177

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	No File Uploaded

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

Academic Council & Board of Studies

The student members are nominated across all the branches in the academic council and Board of Studies meeting to express their views on enhancing new courses based on emerging trends.

Accordingly, curricula and syllabi are refined. Students are nominated as members of the anti-ragging committee. The class committee comprises of student members, representing meritorious as well as mediocre students. The committee also involves the faculty members handling the courses and a faculty coordinator nominated by the HOD, other than the course instructors.

Every department has an advisory committee with all the stakeholders of the education system - the faculty, students, parents, and members from academia and industries. The discussions include the development of the student, their academic performance, placements, co-curricular and extracurricular activities, and the overall development and continuous improvement

of the respective department.

Hostel committees are framed as mess committees - to prepare themenu items; computer lab committees - for the active usage of ICT facilities; and Gym committee- to foresee their fitness development.

IQAC has representatives of student members to share their views while framing the quality policies and special initiatives that were taken to improve the teaching, and learning process.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://nec.edu.in/bos-minutes/

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

20

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

5.4 - Alumni Engagement

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

Alumni Association was established as a society on 01.06.2006, with various regional chapters globally, with the parent chapter functioning at Kovilpatti. The alumni association functions actively, with 13,161 members enrolled to date. The alumni chapters are established in Chennai, Coimbatore, Bangalore, Kuwait, Singapore, Europe, and the USA. An annual general body meeting is convened every year to discuss the activities and progress of the association. The president heads the association, and the other office-bearers like the secretary, Treasurer, Vice president, Joint treasurer, and Joint secretary are also present during the meeting. An Alumni Chamber is established with a world-

class audio/video conference facility with 200 seating capacity on the campus. The mobile app was also developed, and it helps the alumni as well as students through the Alumni Association in hand.

The alumni association also contributes financially to the welfare of the down-trodden students. Alumni from the industry also act as members of the Department advisory committee, Board of studies, etc., for the refinement of Curricula and syllabi. A few of our alumni also serve as Adjunct faculty and create exposure to Industrial activities. The alumni association supports the student's placement and training activities through conducting mock interviews.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://nec.edu.in/alumni-login/

5.4.2 - Alumni's financial contribution during the year

C. 5 Lakhs - 10 Lakhs

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

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

The Institution's mission exhibits the clarity to attain the goal of vision through various aspects ethically. Institutional policies, strategies, and quality assurance set the direction for achieving superiority in academics, research, infrastructure, faculty improvement, placement, social activities, etc. Systematic governance of the organization guarantees powerful management in administering the organization with transparency. The management policies encourage participative management to involve diverse stakeholders in suitable bodies for making decisions. Members of the management board consist of UGC nominees, State Government nominees, University nominees, Academic professionals, and Industry specialists.

The affiliating University nominates its contributors to the Board of Management, Academic Council, Board of Studies, and Result passing board. Alumni and student nominees are also involved in the above bodies and share their views and ideas in the decision-making process. Faculty members share their views in designing the curriculum and syllabus allied with the graduate attributes defined by NBA to retain standards in academics and research to achieve the institution's vision and mission. We established a positive environment that impacts team learning to provide higher-level training, including theory and practice with social and human values through the constant facilities and care.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://nec.edu.in/about-us/

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

Our Institution operates in a decentralized manner with transparent mechanisms. Well-defined regulations and procedures have been framed to promote transparency in academic, scientific and administrative activities. The finance committee of the Institution makes financial decisions. The Board of Management takes policy decisions, formulates and amends rules and regulations, strategy planning, the delegation of powers and responsibilities. Our Institution's aim to develop technologically proficient employees with the attitudes, skill sets, knowledge, and ability to be creative and inventive. To fulfill the same, along with regular academic activities research and extension activities, other cocurricular and extra-curricular activities are planned and executed by various cells/forums/administrative setups.

Case Study: Participative Management

During the Parent-Teachers' association meeting, few parents requested to expose the company specific knowledge to the student within campus. Management has accepted parents' request and started to open technobation centres namely NEC-Mistral and NEC - Brimma Technology within the campus.

The objectives for establishing the technobation centers in our

college are:

1. To promote a culture of innovation and creative problem-solving skills
2. To promote knowledge sharing and collaboration amongst industry, academia, government Institutions, research laboratories, etc.
3. To facilitate interdisciplinary design-focused education, research and entrepreneurial activities to create commercial opportunities and build partnerships between academics and industry.

File Description	Documents
Upload strategic plan and deployment documents on the website	View File
Upload any additional information	No File Uploaded
Paste link for additional Information	https://nec.edu.in/wp-content/uploads/2023/09/IQAC-Minutes-of-meeting-2023.pdf

6.2 - Strategy Development and Deployment

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

Strategic planning has been initiated with a long-term viewpoint to accomplish the vision and mission of the Institution. The main focus of the institution strategic plan includes higher placement, expansion of recent trends programme/course both in UG and PG, industry-ready curriculum, industry-institute interaction, student's internship, student's publication, faculty skill upgradation/enhancement, creation of student innovation products, magnification of appropriate recent equipment's in the laboratory for both students and faculties, well-equipped infrastructure for research and development activities. Placement training cell plays a major role in shaping the career goals of the students. Training the students and equipping them with skills and core knowledge has become an important responsibility. Every year, all the specific topics and tricks required for facing the campus interview have been taught, and a corresponding assessment has been conducted.

These caused an increase in the headcount of placed students, and

the number of offers also increased. In continuation to that, the training programs like career counseling sessions by experts, resume preparation, Mock interview, and skill development have been conducted every year to increase the placement count. In the academic year 2023-2024 totally, 588 students got placed and 609 offers in reputed companies.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://nec.edu.in/wp-content/uploads/2023/11/Strategic-Planning-Manual.pdf
Upload any additional information	View File

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

I) Administrative Setup

Members from the governing board committee formulate principles and policies for teaching and non-teaching faculties. It also indicates and authorizes a new UG/PG program and an additional intake in the existing programs under the autonomous stream. Various committees have been initiated to achieve the vision and mission of the college by achieving short-term and long-term goals. Committee members of the college frequently interacted with the Director and the Principal of the college regarding academic and other activities inside the campus. The college has wellframed statutory and non-statutory committees for looking after the academic and administrative procedures. The statutory committees are constituted as per the guidelines of the UGC. The college examinations are conducted and administrated by the Controller of examinations assisted by one Deputy and Assistant Controller of examinations. The departments are led by the heads of the departments, who take care of academic and administrative tasks with the help of faculty members. 14 Nonstatutory committees are headed by the senior faculty members, consisting of members at various levels. The non-academic administrative tasks are executed by the Administrative Manager and the HR manager housed in the Principal's office along with clerical, programming, data entry, and other administration staff.

File Description	Documents
Paste link to Organogram on the institution webpage	https://nec.edu.in/wp-content/uploads/2024/03/6.2.2-Institution-Organogram-signed.pdf
Upload any additional information	View File
Paste link for additional Information	https://nec.edu.in/wp-content/uploads/2024/03/6.2.2.HR-Manual.pdf

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) Document	View File
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
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 institute has effective welfare measures for both teaching and nonteaching staff members. The following monetary and non-monetary welfare measures for personal and professional growth are provided to the staff.

- Employees Provident Fund (EPF)
- ESI facility for Non-teaching staff
- Staff Gratuity
- Group Insurance
- Medical Claim Policy
- Sponsoring for Higher Education/Research by the grant of leave/lien.
- Casual, Earned, Vacation and Medical leave

- Maternity Leave to female employees
- On-duty leave for attending FDPs / Conferences/Workshops/etc...
- Financial support for attending conferences/workshop/seminar
- Incentives for publications in peer-reviewed journals
Incentives for NPTEL Gold Medalist
- Free transport to teaching and non-teaching staff
- Free Hostel Accommodation facility Sports and Gym facilities.
- Canteen Facilities
- Separate Dining Hall for faculties
- Indian Overseas Bank branch with ATM facility on the campus.
- Staff Club - Annual picnic, festival gift, and annual gift for staff Festival advance Staff Quarters

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://nec.edu.in/wp-content/uploads/2025/01/6.3.1-staff-welfare-policy.pdf

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

57

File Description	Documents
Upload any additional information	No File Uploaded
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

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

12

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	No File Uploaded

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.)

247

File Description	Documents
Summary of the IQAC report	View File
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	No File Uploaded

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

A financial committee has been constituted twice a year to allocate funds for various activities and it is sited before the Governing Council for approval. At the end of the financial year, the overall account details are audited by a chartered accountant the utilization and execution of the budget are monitored through the finance committee and external audit. Finance Committee meeting is held half-yearly basis, and external audit is carried out annually by an Auditor (chartered accountant) at the end of every financial year. Financial planning and review are done regularly by the Finance Committee.

Finance Committee meets twice a year and reviews the fund utilization of each department and college and suggests further action plans. Depending on the demand and requirement, the finance committee allows spending more than the money allocated in the budget. The respective government auditors audit the received government funds through verification of documents and the disbursement of the scholarships such as post metric scholarships, backward community scholarships, and first generation graduate

scholarships to the students. The financial section of the college maintains the record of every online financial transaction.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://nec.edu.in/audited-statements/

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

0

File Description	Documents
Annual statements of accounts	No File Uploaded
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	View File
Any additional information	No File Uploaded

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

National Engineering College is a self-financed institution, where the funds are generated through the fees paid by the students. The discrepancy is adjusted by taking advance from the parent trust. These funds are utilized for research and laboratory development. The institute has a well-defined mechanism to monitor the effective and efficient utilization of available financial resources to develop academic processes and infrastructure development. Optimal Utilization of funds and resources are ensured through induction and orientation Programs, workshops, inter-disciplinary activities, training programs, Refresher Courses, Faculty Development Programs, Conferences, Industry Academia interactions that ensure quality education.

The institutional budget is prepared by the Principal every year, considering both recurring and non-recurring expenditures. All the administrative and academic heads are requested to submit the budget required for the subsequent financial year. Along with this, all coordinators of different cells viz., R& D Cell, Exam Cell, T&P Cell, NSS Cell, etc., are instructed to submit their budget to the Principal. The Institute's Local Managing Committee

and Governing Body (GB) take all the major financial decisions.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://nec.edu.in/finance-committee-meeting-minutes/

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)

Our institution established the IQAC on 10.06.2013, which has an external peer team to assess the performance of the college.

Practice 1 : Merit Scholarship:

Kalvithanthai Thiru K. Ramasamy Memorial Merit Scholarship: In memory of Kalvithanthai Thiru K. Ramasamy, the founder chairman of National Engineering College, Kovilpatti, the Scholarships are offered to the deserving students for Merit, Talent, Sports, Innovation, Entrepreneurship and Research in undergraduate, postgraduate, and Ph.D. degree programmes. This scholarship is offered in the form of fee waiver, stipend, and fellowship.

Practice 2: Technobation Center:

NEC-Mistral Technobation center and Brimma Technobation Center have been established in our campus to provide industrial exposure to the students. The objective is to transfer knowledge and employability skills to the students. NEC provides the required infrastructure, including a building, hardware lab, conference room, cafeteria, training room, manager room, server & UPS room, PCB rework room, and store room, and shall have a fully furnished facility with Internet, uninterrupted power supply, and water facility to setup technobation centers at NEC campus.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://nec.edu.in/igac/#about-IQA-cell

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

Our college reviews the teaching-learning process, structures, methodologies, and learning outcomes at periodic intervals. To ensure the quality of the teaching-learning process, the class committee meeting is conducted three times a semester. Student representatives and all course handling faculties will be members of this committee. The Class committee chair interacts with the student representatives based on the schedule to learn about the teaching and learning process and its implementation. Corrective measures will be taken based on the student's feedback, if required. Learning outcomes are audited and measured periodically to certify their quality, and a corrective mechanism is implemented where necessary through the moderation committee.

The shortfalls identified are addressed from time to time through this moderation committee. Some measures include submitting course handouts, monitoring course delivery and assessment, remedial actions for slow learners, the timely conduct of project reviews, compliance with academic calendars and regulations, and a uniform course delivery and evaluation system for multi-section courses. At the end of every semester, the faculty development section conducts a concluding audit to review the complete academic progress with the help of the academic audit committee. Every semester, this audit is carried out to certify the quality of the teaching-learning process and assessment done by faculty for the courses handled in the specific semester

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://nec.edu.in/aqar-2023-2024/

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used

A. Any 4 or all of the above

**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)**

File Description	Documents
Paste the web link of annual reports of the Institution	https://nec.edu.in/igac/#AQAR-reports
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

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

National Engineering College stands out in terms of gender equity. The Institute confirms that women actively participate and contribute to all of its characteristic moves, such as leading and making decisions. National Engineering College has a Women Empowerment Cell. This cell's primary goal is to promote and empower women to prioritise self-esteem, women's autonomy, and equity. This cell arranges outreach activities for both boys and girls. Two separate wings of NCC functioning in our Institution. The National Cadet Corps (NCC) Army Wing, under the affiliation of 3(TN) Girls BN NCC, Tirunelveli, was approved and started on 9th August 2016 with the sanctioned strength of 104 girls cadets 3(TN) Girls BN NCC.

A. Safety and Security:

To promote safety and security, the Institute maintains 24/7 CCTV surveillance on campus. Security officers are present at all key entry/exit gates and strategic positions throughout the campus around the clock.

The Institute has a mechanism of giving counselling to address

both personal and academic issues of the students. Departments are also mandated to have regular student-faculty interaction meetings to identify the problems and resolve them.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://nec.edu.in/gender-equity-cell/

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

C. Any 2 of the above

File Description	Documents
Geotagged Photographs	View File
Any other relevant information	View File

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

The institution had taken several steps to maintain a green environment. A system for solid/liquid waste management is in place through recycling and other means, among other steps such as planting more trees, encouraging bicycling, E scooters, and constructing additional solar power plants. These bins are colour coded specific to a category of solid waste, viz:

Green -Biodegradable, organic waste like cooked food, vegetables, fruit, leaves, etc.

Red -Non-degradable waste like glass, blades, expired medicine, bandages, etc.

Electronically Operated Sanitary Waste Incinerator Plant:

The inappropriate disposal of sanitary napkins is a problem that requires immediate attention in order to improve hygiene. Incineration of sanitary napkins using electrical or physical fire-based incinerators without allowing the smoke generated in the process to escape into the atmosphere is one of the finest ways to

dispose of menstrual waste. Napkins must be burnt as soon as they are used to prevent infections from growing on them.

Sewage Water Treatment:

Sewage Treatment Plants (STP) with 1,50,000 Ltr capacity (Estd: 2017) at a cost of Rs.12.0 Lakhs. Sewage water, Urinal waste, Toilet waste and Waste water from all the blocks are collected and pumped in to STP through pipelines.

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

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

A. Any 4 or all of the above

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

7.1.5 - Green campus initiatives include

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

1. Restricted entry of automobiles
2. Use of bicycles/ Battery-powered 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	View File
Various policy documents / decisions circulated for implementation	View File
Any other relevant documents	View File

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

<p>7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:</p> <ol style="list-style-type: none"> 1. Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5.Beyond the campus environmental promotional activities 	<p>B. Any 3 of the above</p>
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File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	View File
Certificates of the awards received	No File Uploaded
Any other relevant information	View File

<p>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,</p>	<p>B. Any 3 of the above</p>
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reader, scribe, soft copies of reading materials, screen reading, etc.

File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	View File
Details of the software procured for providing assistance	No File Uploaded
Any other relevant information	View File

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

Our members adhere to their religious beliefs without any hindrance. Our College adorns a festive look to celebrate Pongal, the regional festival of the state Tamilnadu. Many competitions such as Rangoli, Debate, Bharatham, Orchestra, and dance events display the Students' enthusiasm and teamwork. Themes based on the role of agriculture are chosen for the Rangoli competition. Many departments such as nutrition, physical education, and human resources department work in collaboration for the benefit of the Institution and conduct various contests for the faculties and students on the campus. Individual departments and committees perform Saraswathi Pooja/Ayudha pooja in their respective laboratories, unit's lab equipment, and books, invoking the blessings of the Almighty. Employees cutting across all faiths take part in these celebrations, and Prasad is distributed. Yoga day is celebrated every year. Yoga and meditation for women are taking place on the campus. The student's cultural program has the theme of communal and inter-religious harmony.

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

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

One of the primary missions of our College is to serve society at large. Hence various initiatives have been implemented to imbibe a sense of social responsibility. Students and employees of the Institution have been actively engaged in many environmental welfare measures, philanthropic activities, NSS tasks, and health camps. Various community projects on Health care, Sanitation, and Environmental Protection have been implemented under NSS (Ministry of Youth and Sports, Govt. of India.), Swachh Bharat, and Unnat Bharat Abhiyan (Ministry of Human Resource Development, Govt. of India). These social activities have multidimensional effects on the student community. Our college NSS club volunteers used to visit the rural villages every year. They will stay in the village for about two weeks, carry out cleaning works, and be involved in other social service activities. Our college YRC club volunteers used to arrange blood donation camps every year, and all the volunteers donated the blood. Associating with the NSS volunteers, free eye check up camps have been arranged by the YRC club members.

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

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

B. Any 3 of the above

File Description	Documents
Code of Ethics - policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	View File
Any other relevant information	No File Uploaded

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

Our Institution organizes national and international commemorative days and celebrates festivals like Pongal in the form of Samathuva pongal. In addition to that, our Institution also celebrates the birth and death anniversaries of great Indian personalities like Mahatma Gandhi (Gandhi Jeyanthi), Teachers day (Dr. Radhakrishnan Birthday), and Engineers day (Mokshagundam Visvesvaraya) every year.

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

7.2 - Best Practices

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

An innovative teaching-learning process involves implementing new methods and strategies to enhance the educational experience in our college. Here are some key components and examples of innovative approaches:

1. Blended Learning

- Combines traditional face-to-face instruction with online

learning.

- Students have flexibility in learning at their own pace while still benefiting from classroom interaction.

2. Flipped Classroom

- Students review lecture material at home (videos, readings) and engage in interactive activities in class.
- Encourages active learning and deeper understanding during classroom sessions.

3. Project-Based Learning (PBL)

- Students work on real-world projects that require critical thinking, collaboration, and problem-solving.
- Promotes hands-on learning and practical application of knowledge.

4. Experiential Learning

- Learning through direct experience, such as internships, service learning, or field trips.
- Bridges the gap between theory and practice, making learning more relevant.

Benefits of Innovative Teaching-Learning Processes:

- **Enhanced Engagement:** Interactive and varied methods keep students interested.
- **Improved Retention:** Active learning methods help in better understanding and memory retention.
- **Skill Development:** Focus on 21st-century skills like critical thinking, creativity, and collaboration.
- **Accessibility and Inclusivity:** Technology can make education more accessible to diverse learners.

File Description	Documents
Best practices in the Institutional website	https://nec.edu.in/innovative-teaching-and-learning-process/
Any other relevant information	https://nec.edu.in/fds-educational-process/

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)

NEC Business Incubators VISION

To create a result driven environment for stimulating growth in business and economic development in the southern region of Tamilnadu through Incubation.

MISSION

To simulate entrepreneurial spirit & innovation promotion among the students and the local community for the successful development of new businesses and employment generation in specific sectors that are aligned with the unique opportunity of this region

GOALS

To create a conducive environment and to provide necessary support and services to our students to start their own business after their graduation

OBJECTIVES

- To cultivate Entrepreneurial culture in NEC campus and among the community.
- To assist in the formation both technology and non technology driven business and to aid in their successful development.
- To position NEC and the community to take advantage of the new business opportunities.
- To provide experiential learning opportunities and internships for students and faculty that will complement programs on campus.
- To create jobs for graduating students.
- To create good paying jobs in the community.
- To expand the opportunities for NEC to partner and engage with the c

File Description	Documents
Appropriate link in the institutional website	https://nec.edu.in/facilities-2/nec-business-incubators/
Any other relevant information	View File

7.3.2 - Plan of action for the next academic year

- **Curriculum Update:** Review and update the curriculum to include emerging technologies such as AI, IoT, and Blockchain.
- **Research & Development:** Establish a research fund to encourage faculty and student research projects.
- **Innovation Labs:** Set up specialized labs for robotics, data science, and renewable energy.
- **Smart Classrooms:** Upgrade existing classrooms with smart boards, high-speed internet, and audio-visual aids.
- **Library Resources:** Expand digital library resources, including e-books, journals, and online databases.
- **Internship Opportunities:** Strengthen industry partnerships to provide students with better internship and placement opportunities.
- **Mentorship Programs:** Establish a mentorship program where senior students and alumni mentor junior students.
- **Professional Development:** Organize regular faculty development programs, workshops, and seminars to keep the teaching staff updated with the latest industry trends.
- **Collaboration:** Encourage faculty to collaborate with industries and other academic institutions for research and development.
- **Industry-Academia Events:** Host industry-academia conclaves, hackathons, and job fairs.
- **Guest Lectures:** Invite industry leaders and academicians for guest lectures and motivational talks.
- **Alumni Engagement:** Conduct regular alumni meetups and encourage alumni to contribute to the college's development.