



# **SELF STUDY REPORT**

**FOR**

**2<sup>nd</sup> CYCLE OF ACCREDITATION**

**NEHRU INSTITUTE OF ENGINEERING AND  
TECHNOLOGY**

**NEHRU GARDENS, THIRUMALAYAM PALAYAM, COIMBATORE**

**641105**

**[www.nehrucolleges.org](http://www.nehrucolleges.org)**

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**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

**BANGALORE**

**February 2022**

# 1. EXECUTIVE SUMMARY

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## 1.1 INTRODUCTION

Nehru Institute of Engineering and Technology is established by Founder chairman, Shri. P. K. Das in the year 2006, Approved by AICTE - New Delhi, Affiliated to Anna University – Chennai, Accredited by NAAC B++, NBA Accredited for three UG Programmes and Recognized by UGC Under Section 2(f) and 12(B).

It has completed fifteen successful years and the institute is marching ahead towards achieving the Vision and Mission of our Founder chairman under the guidance of Our Chairman & Managing Trustee Adv. Dr. P. Krishna Das and CEO & Secretary Dr. P. Krishna Kumar.

In completing its fifteenth year of establishment, NIET has successfully completed its NAAC and NBA Accreditation, Recognized by UGC under Section 2(f) and 12 (B) by extending its wings and included in itself 8 Undergraduate Programmes, 2 Master Programmes in Engineering along with PG Programmes in MBA and 1 Ph.D Programme in Aeronautical Engineering with a total strength of students exceeding 1500.

NIET is well-equipped with excellent infrastructure, state of art laboratory, center of excellence and dedicated team of eminent faculty members. NIET has become one of the leading institutions in Coimbatore region.

NIET is marching ahead in its road to success by showing continuous improvement in producing good academic records with university ranks in almost all the departments.

The Institute's main agenda is to achieve excellence in the field of technical education in order to satisfy the customers and society with the best talented technocrats from this temple of learning.

### **Vision**

To mould the youngsters to acquire sound knowledge in technical and scientific fields to face the future challenges by continuous upgradation of all resources and processes for the benefit of humanity as envisaged by our great leader Pandit Jawaharlal Nehru.

### **Mission**

1. To build a strong centre of learning and research in engineering and technology
2. To facilitate the youth to learn and imbibe discipline, culture and spirituality.
3. To produce quality engineers, dedicated scientists and leaders.
4. To encourage entrepreneurship.
5. To face the challenging needs of the global industries

## 1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

### Institutional Strength

- Well developed infrastructure.
- Highly committed, dedicated and qualified staff.
- Permanent Affiliation to Anna University
- Exclusive placement and training department NCP&IR follows up the placement related activities and increasing number in campus placements.
- Arranges NOBLE training for inspiration and resilience of competency.
- Value Added Courses are conducted to impart necessary skills to the students in order to fulfill industrial expectation.
- Content beyond the syllabus are prepared by every staff in order to fill the curriculum gap between Industry and Institute.
- Adequate and excellent laboratory facilities and Center of Excellence.
- Social awareness and social responsibility are instilled in the students through a extension activities.

### Institutional Weakness

- Less number of sponsored researches projects and patents.
- Lack of autonomy to introduce new courses.
- Few senior professors are part of Board of Studies and contribute to the design of curriculum in affiliating University.
- Adequate Industry Collaborative research output to be improved.

### Institutional Opportunity

- Participating of students in many co-curricular and extracurricular activities to improve the technical and communication skills and leadership qualities.
- Constant encouragement provided to the faculty members in research activities.
- Strong alumni network to further strengthen industry collaboration.
- More innovative and collaborative research programs.
- More entrepreneurship initiatives will be taken and create better entrepreneurs in the core Sector.

### Institutional Challenge

- Improving the communication skills of the students from rural areas with diverse background.
- To improve the research publications with real time projects.
- Filling the gap between the Industry requirements and the curriculum is a challenge.

## 1.3 CRITERIA WISE SUMMARY

### Curricular Aspects

Nehru Institute of Engineering and Technology **targets** on Outcome Based Education (OBE) in all programmes

**and courses** with clearly defined objectives and learning outcomes to align with the mission of the college. The 8 Under Graduate, 3 Post Graduate and 1 Ph.D Programmes offered by the institution caters to the industrial need of engineering domain.

The Institute follows the curriculum prescribed by Anna University. The Institute Academic Calendar is prepared in compliance with the academic schedule of the affiliating university. Department Academic Calendar is prepared in line with the Institute's academic calendar which includes various events like Value Added Courses, Guest Lectures, Workshops, Seminars, Symposium, Conferences, Industrial Visits and other Technical events.

Various activities to support gender sensitization, environment issues, human values and professional ethics are organized to enhance the individual talents and ensure overall development of the student.

The Institute follows Choice Based Credit System (CBCS) as insisted by Anna University, Chennai for the regulation 2017. The students are encouraged to choose inter-disciplinary, intra-disciplinary courses that are offered as elective courses.

The curricular gaps are identified and certificate/add-on/value added courses are conducted to complement student's knowledge and skills in their field of study. The main objective is to equip the students in current technologies and also to reduce the gap between academia and industry.

The Institute improves the soft-skills of the students by imparting training through Nehru Corporate Placement and Industrial Relations (NCP&IR). The students receive skill oriented knowledge by attending internships, projects and industrial visits. The institution encourages the faculty to participate in refresher courses, faculty development programmes and workshops to keep themselves updated.

The feedbacks are collected from various stakeholders and suggestions are implemented for continuous improvement in curriculum. Thus the institute ensures the effective implementation of curricular aspects.

### **Teaching-learning and Evaluation**

An academic institute's success lies in its teaching and learning processes, in which each stakeholder plays a vital role in achieving it. The state government of Tamilnadu governs engineering admission for UG and PG through a centralized admission process. The teaching schedule is meticulously planned in accordance with the University's Calendar of Events. Flexibility is included in the preparation to develop and implement custom made Learning methodologies (Collaborative, individual, experiential, problem solving, etc..) to improve learning occurring at different students. Students are encouraged to think critically and be innovative and creative in tackling assignments, projects and other tasks assigned to them. Institute creates Mentee- Mentor strategies for stress-related problems and seeks to create successful solutions for slow and advance learners. The college refers to both the knowledge and the intellect aspect of the update Bloom's taxonomy to ensure the quality of teaching, learning and assessment processes. We have a centralized review committee to administer

internal assessments and semester-end exams. High quality and transparency are maintained in the systems of research and evaluation. As a learning organization, we have always engaged in a continuous process of obtaining feedback from different stakeholders in a formal-informal manner and has enriched the teaching-learning processes. Institute strictly follows the associated university's directives to maintain the required student, full-time faculty ratio, ensuring quality education. The standard of the faculty present at the institute is demonstrated by their number of awards and recognitions. Despite the associated university's exam pattern, the institute follows a cycle of ongoing assessment with accountability. Unique COs describe all courses including theory and laboratory and are available on the website. Timely student satisfaction surveys are administered, and input is reviewed for appropriate action in the respective committee.

### **Research, Innovations and Extension**

The Institution provides priority for the activities of Research and Development. The R & D activities are executed by the Research Coordinator of the Institution who had continuous interaction with the Head of the Departments and Faculty members of all the streams to monitor students' design & fabrication projects, analysis and simulation oriented projects. The faculty members are rewarded suitably if they get funded projects from reputed organizations like AICTE, UGC, TNSCST and other funding agencies. It is a regular feature of the institution that our teachers have been receiving Anna University Chennai sponsored programmes like Faculty Development Programmes on Design of Transmission system, Kinematics of Machinery etc., and Staff Training Programmes. Research Grants are received from government organization for carrying out innovative projects through Entrepreneurship Development Cell and other Projects under Research Promotion scheme are in the pipeline. The team of faculty members has participated and presented their research paper in the International conference conducted by University of Sains, Malaysia and books have been published by the faculty members from various domains. The institution have received a funded project and a national level FDP funding from ICSSR, New Delhi, EDII. The seminar and workshop on Research methodology and Intellectual Property Rights for the enhancement of the faculty who pursue research programmes and doing research projects were conducted. The Center of Excellence and project laboratory have been provided for the effective utilization of carrying out the project works. It is evident that our institution has done social welfare measures in every year through NSS, RRC, YRC and rotract etc., The AICTE and other bodies have given the recognition and awards pertaining to the promotion of the social awareness. The institution has MoUs in collaboration with various industries and corporate sectors in order to offer internship, in-plant training and field trip for the upliftment of the students' skill.

### **Infrastructure and Learning Resources**

#### **Physical Infrastructure:**

Nehru Institute of Engineering and Technology was established in the year 2006. Our Institution has well planned infrastructure, comprising of 48 ICT enabled class rooms, 4 Smart class rooms, 2 drawing halls, 4 seminar halls and board room. The seminar halls are equipped with LCD projector, computer with internet connectivity and public address system. Our Institution has 36 Laboratories with required equipments and required software for all the departments. All the laboratories are equipped with safety measures like Fire Extinguishers, First aid box etc.

#### **Internet and ICT resources:**

The college is facilitated with 745 computers that are accessible to the students and the staff members for academic, research and online examinations. The entire campus is monitored by CCTV facility. The CCTVs are installed in the college campus at Ramanujan Block, Dr A.P.J Abdulkalam Block , library etc. which assist to monitor the campus activities. Software is purchased and license is renewed as per norms. Internet Bandwidth connectivity is upgraded based on the requirements. Wi-Fi connectivity is provided for the entire campus.

### **Library Resources:**

Our Central Library in the name of PK Das Knowledge Fort which covers an area of 30,000 sq.ft. The library has developed with collection of books and Journals in Science, Engineering, Technology, Humanities and Management. It maintains separate collections of reference books, back volumes of journals and compact discs. The library is using Auto Lib OPAC (Online Public Access Catalogue) and the users can search the Library Online Catalogue by author's name, title, subject and keywords which is available on the campus LAN. The total collection of library books around 28854 volumes, National, International Journals and Magazine.

### **Maintenance of Campus Infrastructure:**

Our Institution has a maintenance team that carries out the maintenance of buildings, classrooms, seminar halls, and laboratories. The Maintenance team is headed by an Administrative officer, who monitors the work of the Campus Supervisor at the next level. Major works are completed during the winter and summer vacations, and minor works are completed as needed without interfering with academic activities.

### **Student Support and Progression**

Nehru Institute of Engineering and Technology has a Vision to mould true citizens through continuous support and enhancement of capabilities through various schemes and opportunities like,

Nehru Vigyan Scholarship - the scheme offered by the Management of Nehru Group of Institutions that supports and enhances the learning of poor and meritorious students by reducing their financial burdens with fee concessions based on the cut off marks.

Nehru Sports Scholarship - another wonderful scheme for supporting the talented students in sports and games through search hunt in the state. Those students who have achieved records in state or national level games are fee waiver opportunity and concessions.

NOBLE - Capabilities of the students are tuned and promoted by various activities like NOBLE (Nehru Out Bound for Leadership Excellence) toward better qualities of leadership and life skills.

Student council - Opportunities are wide opened to students to participate and experience administrative practices through Student council, numerous clubs and committees functioning in the college.

Anti-ragging committee - The future graduates are given freedom to nurture and flourish in learning toward their vision with protection and redressal polices through Anti Ragging through sound and speedy actions.

NCP&IR - Nehru Corporate Placements and Industrial Relations (NCP&IR) supports students by shouldering them to develop their confidence, communication skills, soft skills, aptitude, skills to cater the needs of industries with best placements and as well to crack the competitive exams.

Alumni Connect - The college has an Alumni Association called Alumni Connect that meets in the college campus on the Graduation day and yearly once in the major cities of India. The Alumni Association seeks to unite graduates with each other and the current students through mentoring and career development programs, events and reunions and a range of volunteer opportunities.

### **Governance, Leadership and Management**

An effective and transparent governing system is followed by our Institution in tune with the vision and mission of the Institution. The quality technical education with strong fundamentals and professional ethical standards is imparted by our Institution to enable students to make advancement in their respective field of study. An efficient participative management is practiced by the leadership of the Institute to bring the excellence by the established structure of the organizational system. The decentralization concept is clearly defined with respect to the organizational structure. The Principal is the Academic and Administrative head of the college and responsible for the implementation of the Vision and Mission of the college.

All important decisions regarding the commencement of new courses, expansion of infrastructure, formulation and promulgating of strategy are approved by the CEO & Secretary. The implementation process is further discussed with the Principal and Heads of the departments for execution. The service rules and procedures are clearly defined for each functional body. The regular meetings are conducted effectively for the various committees, functional bodies, working cells. The Institution has implemented e-governance to make the process simple, accountable, transparent and better reach.

Faculty development programs are conducted for technical and administrative staff members. For the benefits of teaching and non-teaching staff, professional development/administrative training programs have been arranged in the campus. The faculties and students benefitted with financial support for attending the conferences/workshops. The institution has effective welfare measures for teaching and non-teaching staff. As per the budget, financial resources are made available for the effective functioning of the college. A well-defined mechanism prevails to monitor the usage of funds. As per the budget, financial resources are made available for the effective functioning of the college.

For the effective implementation of the Quality processes, the IQAC is responsible. Regular meeting is conducted by IQAC and subsequently the AQAR is sent to NAAC. The Academic and Administrative Audits are conducted by IQAC and based on the observation of reports, the quality recommendations are given. The compliance of academic and administrative procedures and their continual improvement is ensured through systematic audit by IQAC.

### **Institutional Values and Best Practices**

Gender Equity Cell of Nehru Institute of Engineering and Technology conducts sensitization programmes for creating awareness on women's issues and motivating them to achieve their goals and make them aware of their rights. The college takes initiatives in exhibiting innovations in areas like rainwater harvesting, organic farms, RO plant, solar energy, and massive plantation of saplings by creating a "Vanam" meaning forest through nature club. The college is committed to keep the campus green and serene and has taken initiatives to minimize the use of plastics. The college takes initiatives to impart awareness to the society regarding the crisis issues and organizes rallies.

Our college takes more care in providing a student a good environment to learn thus aim to mould him into a good citizens of India. In order to achieve this, we conduct various programs whether it is through Science day celebration, pi-day, or remembrance day of Dr. APJ Abdul Kalam we try to instigate in the minds of budding engineers the sense of gratitude towards the achievers and in turn get motivated to think innovatively. The student council plays a major role in addressing the major issues of the students and see that it gets solved with the support of the dedicated faculty members. We also provide fees wavers through nehru vigyan scheme for deserving students.

To enhance the leadership qualities the college gives opportunity to the student in organizing cultural events like "Avatar" and college day. The effective mentoring through student adoption scheme and continuous monitoring college establishes classroom discipline. The college has various committees working meticulously for the student's safety and security and tries to protect the student's right by providing a fearless and carefree environment. The counsellor is appointed to address to the psychological and academic aspects of their life.

Use of ICT in the teaching learning processes is one of the highlights. Emphasis has been laid on entrepreneurship development by establishing Nehru Corporate Placement and Industry Relations(NCPIR). Student-college relationship established using CMS App of our college along with social media, like face book, whatsapp to have a good rapo with the students.

## 2. PROFILE

### 2.1 BASIC INFORMATION

Name and Address of the College	
Name	NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY
Address	Nehru Gardens, Thirumalayam Palayam, Coimbatore
City	Coimbatore
State	Tamil Nadu
Pin	641105
Website	<a href="http://www.nehrucolleges.org">www.nehrucolleges.org</a>

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	P.maniarasan.	0422-2380007	9003936804	0422-2380007	nietprincipal@nehru colleges.com
IQAC / CIQA coordinator	R.deepa	0422-2206148	9489212233	0422-2206148	nietiqac@nehru colleges.com

Status of the Institution	
Institution Status	Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	
Date of establishment of the college	21-07-2006

**University to which the college is affiliated/ or which governs the college (if it is a constituent college)**

State	University name	Document
Tamil Nadu	Anna University	<a href="#">View Document</a>

**Details of UGC recognition**

Under Section	Date	View Document
2f of UGC	28-06-2018	<a href="#">View Document</a>
12B of UGC	28-06-2018	<a href="#">View Document</a>

**Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)**

Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	<a href="#">View Document</a>	30-06-2021	12	
AICTE	<a href="#">View Document</a>	30-06-2021	12	
AICTE	<a href="#">View Document</a>	30-06-2021	12	
AICTE	<a href="#">View Document</a>	30-06-2021	12	
AICTE	<a href="#">View Document</a>	30-06-2021	12	
AICTE	<a href="#">View Document</a>	30-06-2021	12	
AICTE	<a href="#">View Document</a>	30-06-2021	12	
AICTE	<a href="#">View Document</a>	30-06-2021	12	
AICTE	<a href="#">View Document</a>	30-06-2021	12	
AICTE	<a href="#">View Document</a>	30-06-2021	12	

**Details of autonomy**

Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No
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<b>Recognitions</b>	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	Yes
If yes, name of the agency	National Board of Accreditation
Date of recognition	01-08-2019

<b>Location and Area of Campus</b>				
<b>Campus Type</b>	<b>Address</b>	<b>Location*</b>	<b>Campus Area in Acres</b>	<b>Built up Area in sq.mts.</b>
Main campus area	Nehru Gardens, Thirumalayam Palayam, Coimbatore	Rural	10.56	33000

## 2.2 ACADEMIC INFORMATION

<b>Details of Programmes Offered by the College (Give Data for Current Academic year)</b>						
<b>Programme Level</b>	<b>Name of Programme/Course</b>	<b>Duration in Months</b>	<b>Entry Qualification</b>	<b>Medium of Instruction</b>	<b>Sanctioned Strength</b>	<b>No.of Students Admitted</b>
UG	BE,Aeronautical Engineering	48	HSC	English	120	96
UG	BE,Computer Science And Engineering	48	HSC	English	60	59
UG	BE,Electronics And Communication Engineering	48	HSC	English	90	73
UG	BE,Electrical And Electronics Engineering	48	HSC	English	60	32

UG	BE,Mechanical Engineering	48	HSC	English	60	53
UG	BE,Mechatronics Engineering	48	HSC	English	60	22
UG	BTech,Artificial Intelligence And Data Science	48	HSC	English	60	60
UG	BTech,Computer Science And Business System	48	HSC	English	60	60
PG	ME,Aeronautical Engineering	24	B.E. B.Tech.	English	18	13
PG	ME,Electronics And Communication Engineering	24	B.E. B.Tech	English	18	7
PG	MBA,Master Of Business Administration	24	Any UG Degree	English	60	59
Doctoral (Ph.D)	PhD or DPhil,Aeronautical Engineering	36	M.E. M.Tech	English	27	0

### Position Details of Faculty & Staff in the College

<b>Teaching Faculty</b>												
	<b>Professor</b>				<b>Associate Professor</b>				<b>Assistant Professor</b>			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	21				15				117			
Recruited	17	4	0	21	12	3	0	15	73	44	0	117
Yet to Recruit	0				0				0			

<b>Non-Teaching Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				38
Recruited	31	7	0	38
Yet to Recruit				0

<b>Technical Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				2
Recruited	2	0	0	2
Yet to Recruit				0

**Qualification Details of the Teaching Staff**

<b>Permanent Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD	0	0	0	0	0	0	0	0	0	0
Ph.D.	17	4	0	12	3	0	6	2	0	44
M.Phil.	0	0	0	0	0	0	4	18	0	22
PG	0	0	0	0	0	0	63	24	0	87

<b>Temporary Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

<b>Part Time Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

<b>Details of Visting/Guest Faculties</b>					
<b>Number of Visiting/Guest Faculty engaged with the college?</b>	<b>Male</b>		<b>Female</b>		<b>Total</b>
	0	0	0	0	0

**Provide the Following Details of Students Enrolled in the College During the Current Academic Year**

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	281	98	0	0	379
	Female	66	10	0	0	76
	Others	0	0	0	0	0
PG	Male	46	5	0	0	51
	Female	16	12	0	0	28
	Others	0	0	0	0	0
Doctoral (Ph.D)	Male	0	0	0	0	0
	Female	0	0	0	0	0
	Others	0	0	0	0	0

<b>Provide the Following Details of Students admitted to the College During the last four Academic Years</b>					
<b>Programme</b>		<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>
SC	Male	27	21	29	51
	Female	5	4	8	17
	Others	0	0	0	0
ST	Male	2	0	2	1
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	205	162	175	289
	Female	27	36	17	38
	Others	0	0	0	0
General	Male	120	75	80	78
	Female	27	13	25	25
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		413	311	336	499

### **Institutional preparedness for NEP**

1. Multidisciplinary/interdisciplinary:	Nehru Institute of Engineering and Technology (NIET) have always strived for a multidisciplinary approach in its academic and co-curricular activities. Students are motivated to undergo industrial projects in the Multidisciplinary/ Interdisciplinary mode by formulating teams from different programmes. Students are also encouraged to formulate teams from diverse disciplines to participate in various technical activities like NewGen IEDC Project, TNSCST Project and Technical Symposium, conference etc.
2. Academic bank of credits (ABC):	Our institute is in the process of developing a system for executing ABC in true spirit. ABC as envisioned in the National Educational Policy-2020 provides a

	<p>national level facility promoting flexibility of curriculum framework along with other multidisciplinary mobility of students across the Higher Education Institutions in the country with appropriate credit transfer mechanism created through these regulations. The National Academic Bank of Credits (ABC) portal has been integrated into the nad.digitallocker.gov.in platform and is currently in live for the academic year 2021.</p>
3. Skill development:	<p>Skill is a Practiced ability or expertise in a given ability that can be applied in wide range of situations. Basically two types of skills hard skill and soft skill. Hard skills are quantitative in nature, which can be seen in grades and percentage. Soft skills are otherwise called as human skills. Soft skills are exhibited by personal qualities like responsibility, self-esteem, sociability, self-Management and integrity/honesty. Objectives: To strengthen our students' communication skill in accordance to corporate needs. Activities: • Regular communication skill classes for all the students from the day of entrance in to our campus. • Activities like critical thinking, case studies, Brain storming, Decision making, problem solving, effective presentation, versatile writer and an ability to collaborate and communicate along with sense of responsibility towards personal and society at large. • Regular GD's personality development programs and interview skills for the final year students. • Communication classes for all the levels including various activities. • Engaging and motivating the learners to develop the vocabularies from first year onwards to speak and write in English without mistakes.</p>
4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):	<p>Our Institution has Tamil and Malayalam and Telugu Literary forum in which we encourage students to share their literary knowledge and culture of their respective languages. We have a mixture of students from Tamil speaking and Malayalam speaking and Telugu speaking Diaspora. Hence the college authorities allow the students to utilize their literary knowledge and culture to spread their love and affection.</p>
5. Focus on Outcome based education (OBE):	<p>Nehru Institute of Engineering and Technology (NIET) was accredited by NBA in the year 2019 and at the same implementing OBE for all UG and PG</p>

programmes. we Disseminate Program Outcomes (PO), Program Specific Outcomes (PSO), Program Educational outcomes (PEO) and Course Outcomes (CO) in our institutional website and also in the prominent places of all UG and PG departments. Faculty members assess the performance of Students as per OBE attainment Process. The attainment for each course outcome is generally divided into two types: 1. Direct Assessment method 2. Indirect Assessment method The direct assessment is measured from internal assessment and external assessment. The internal assessment for each course is based on the student's knowledge skill and Student's academic performance in continuous internal assessment tests, seminars, classroom, laboratory assignments, semester examinations, etc. This method displays strong evidence for student's learning. The Indirect assessment is measured through course end survey. The process used for setting course attainment benchmark values are • The course-wise university grades for previous years were analyzed. • The course proficiency and the level of attainment are set by the course coordinator. • The appropriate course target level for the entire programme is set in the DAC Meeting. • The set target level is revised in the DAC meeting after the attainment of three consecutive batches is achieved. Attainment of Program Outcomes and Program Specific Outcomes: PO/PSO assessment is done by giving 80% proportion to direct assessment and 20% proportion to indirect assessment. Direct assessment is based on CO attainment, where proportion is given to attainment through university exams and internal assessments. Indirect assessment is done through the programme exit survey. Assessment Tools – PO/PSO attainment 1. Direct Mode: Course Attainment 2. Indirect Mode: Programme Exit Survey Frequency of evaluation: At the end of programme completion. The process used for setting POs / PSOs attainment benchmark values: • The target values for POs / PSOs attainment for the entire programme are reviewed and approved by DAC Meeting considering POs / PSOs attainments of previous batches. • The POs / PSOs target level is revised after the attainment of three consecutive batches are achieved.

6. Distance education/online education:

Online education plays a crucial role for past two years in our student's life due to pandemic situations.

In online education' learners are adopted to the environment in learning through Google meet and to other platforms in which online education has broken the geographical barriers creating interaction of experts and students from distant geographies. Learners are motivated to interact with the experts which paved the way of adopting both online and regular mode of education. So, this new education policy promotes the blended learning system of learning. On line education strengthen the confidence of the learners and learners adopted to the situations that they could balance both online and off teaching - learning environment.

NAAC

## Extended Profile

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### 1 Program

#### 1.1

**Number of courses offered by the Institution across all programs during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
352	347	375	405	403
File Description		Document		
Institutional data prescribed format		<a href="#">View Document</a>		

#### 1.2

**Number of programs offered year-wise for last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
11	10	12	12	11

### 2 Students

#### 2.1

**Number of students year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
1333	1364	1569	1774	1954
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

#### 2.2

**Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
501	460	531	531	551

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

### 2.3

#### Number of outgoing / final year students year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
453	384	440	517	633

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

## 3 Teachers

### 3.1

#### Number of full time teachers year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
147	150	163	173	175

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

### 3.2

#### Number of sanctioned posts year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
130	130	146	150	193

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

## 4 Institution

### 4.1

#### Total number of classrooms and seminar halls

**Response: 56**

**4.2**

**Total Expenditure excluding salary year-wise during last five years ( INR in Lakhs)**

2020-21	2019-20	2018-19	2017-18	2016-17
226.76	505.34	485.81	551.64	496.98

**4.3**

**Number of Computers**

**Response: 645**

NAAC

## 4. Quality Indicator Framework(QIF)

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### Criterion 1 - Curricular Aspects

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#### 1.1 Curricular Planning and Implementation

**1.1.1 The Institution ensures effective curriculum delivery through a well planned and documented process**

**Response:**

**Nehru Institute of Engineering and Technology**, Coimbatore is affiliated to Anna University, Chennai. However, the implementation of curriculum is taken scrupulously by the institution as per the academic schedule.

Based on the academic schedule of the affiliating university, the institute prepares the academic calendar which comprises various curricular and extracurricular activities of the institution and departments for every semester.

**The excellence of Classroom teaching with Course Plan**

Meetings are held in each department to discuss the distribution of courses for upcoming academic sessions during the end of the semester. Based on the experience and specialization of the faculty members, the course is assigned to them by the head of the department. The individual faculty member prepares a course plan. It gives an insight into how the lecture class will be handled throughout the semester before commencing of each semester. The excellence of the classroom teaching depends on content delivery, interaction, discussion, examples, applications and usage of modern ICT tools. The role of the teachers is significant not only with the content but also with motivational contributions of students through paper presentation, projects, group assignments, visit to various industries for better exposure.

**Instructional methods and pedagogical initiatives**

Institution practices outcome-based education while planning and delivering the content. Various Innovative Teaching & Learning methodologies are adopted by the faculty members to create the best learning environment for students. Teaching and Learning methodologies include traditional (Chalk and talk) and technology-enabled methods. Video lecturing is provided by faculty members to explain the real-world problems with industrial illustrations, design issues etc. Faculty members prepare the e-materials for both theory and laboratory courses for the benefit of students by posting in Content Management System available in the college website. Faculty demonstrates static & working models, simulations, animations and implemented projects in the department. Invited expert lectures (industrialists/academicians) are arranged to deliver the content beyond syllabus for knowledge enhancement and value-added courses have been organized for bridging the gap between Industry and Academia. Tutorials/ E-learning classes are practised for participative learning. Assignments are given to improve the knowledge beyond the syllabus. Students are motivated for doing research work through publications and encouraged to do project in Newgen IEDC, NGI-TBI and TNSCST etc.,

**Monitoring system for delivery of curriculum**

HODs and IQAC coordinators are regularly monitoring the delivery of curriculum. Academic feedback is collected from the students through online on a regular basis. The teaching faculty members are entrusted with the task of mentoring students on academic and non-academic issues. Class committee meeting is conducted where student representatives can express their grievances. The outcome-based education focuses on effective curriculum delivery. The internal assessment tests are conducted to assess the attainments of the course outcomes. The academic audit is done by IQAC to ensure the quality of delivery of curriculum.

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Link for Additional information	<a href="#">View Document</a>

**1.1.2 The institution adheres to the academic calendar including for the conduct of CIE****Response:**

A team consisting of Principal, IQAC Head and Heads of the Departments organize the academic calendar. The academic calendar is followed by students and staff which is also available on the college website. The schedules of all examinations like Internal Assessment Test- I, II and III could be viewed by students from the department notice board. Review Questions for all Internal Assessment Tests are displayed on the website along with syllabus. For all programmes, the institute conducts three Internal Assessment Tests for 50 marks in each semester. Internal Assessment Tests contribute 20% and end semester university examinations contribute 80% towards the grade point of a course. The internal examinations time table is displayed in the department, classroom notice board and social network group far in advance. Before commencement of internal examinations, review questions are provided to the students through the Content Management System. After completion of the internal examination, the faculty evaluates the answer scripts within three working days from the day of completion of the respective course examination and distribute to the students. After clarifications, a signature from each student is received in the corresponding answer scripts for all courses. Periodically the Internal Assessment Test marks are circulated to the students and Parents for the benefit of the students.

To improve the academic process of the students, the procedure below is followed,

1. After Evaluation of Answer scripts, final verification is done by concerned Head of the department.
2. Conducting tutorial classes for the benefits of the students.
3. Remedial classes and guidance are provided for the slow learners and advanced learners.
4. Industrial visits and Internships are arranged by the faculty members for the students.

The following parameters are evaluated to enhance the performance of the student based on

communication skills, use of modern tools, solving of analytical problems, peer group studies and students mentoring.

### End Semester Examinations

Valuation of answer scripts and publication of results are liable to Anna University. The opportunity for re-evaluation is possible as a grievance measure. In the end semester examinations students can express their grievances by applying for the following evaluation procedure:

- Photocopy of the answer scripts could be sought from the university through the exam cell if the student needs.
- After receiving the photocopy, the students can verify for any discrepancy.
- Anna University requires a course expert valuation for a better percentage of the mark for the deserving candidates so course expert valuate and recommend for re-evaluation.
- The results of re-evaluation will be announced as per the university norms. If the re-evaluation results are not satisfactory, a student can apply for challenge evaluation within a week after the announcement of the re-evaluation results.

This evaluation process is carried as per the Anna University norms.

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Link for Additional information	<a href="#">View Document</a>

**1.1.3 Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the last five years**

1. Academic council/BoS of Affiliating university
2. Setting of question papers for UG/PG programs
3. Design and Development of Curriculum for Add on/ certificate/ Diploma Courses
4. Assessment /evaluation process of the affiliating University

**Response:** A. All of the above

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Details of participation of teachers in various bodies/activities provided as a response to the metric	<a href="#">View Document</a>
Link for Additional information	<a href="#">View Document</a>

## 1.2 Academic Flexibility

### 1.2.1 Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

Response: 100

#### 1.2.1.1 Number of Programmes in which CBCS / Elective course system implemented.

Response: 11

File Description	Document
Minutes of relevant Academic Council/ BOS meetings	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional information	<a href="#">View Document</a>

### 1.2.2 Number of Add on /Certificate programs offered during the last five years

Response: 82

#### 1.2.2.1 How many Add on /Certificate programs are offered within the last 5 years.

2020-21	2019-20	2018-19	2017-18	2016-17
18	23	16	15	10

File Description	Document
List of Add on /Certificate programs	<a href="#">View Document</a>
Brochure or any other document relating to Add on /Certificate programs	<a href="#">View Document</a>
Link for Additional information	<a href="#">View Document</a>

### 1.2.3 Average percentage of students enrolled in Certificate/ Add-on programs as against the total number of students during the last five years

Response: 67.12

#### 1.2.3.1 Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
1317	1356	948	934	475

File Description	Document
Details of the students enrolled in Subjects related to certificate/Add-on programs	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 1.3 Curriculum Enrichment

#### 1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics ,Gender, Human Values ,Environment and Sustainability into the Curriculum

##### Response:

The Institution concentrates on the performance of the students. Programs are frequently arranged related to Gender Equity, Sustainability, Human Values and Ethics. The Institute engages the students in several activities through different clubs and conduct programs to create awareness among the students through these clubs like Rotract Club, Youth Red Cross Club, Red Ribbon Club, Gender Equity Cell, Women Empowerment Cell, Anti ragging committee, Students Grievances and Redressal Committee, Counseling, National Service Scheme, Mentoring Committee, Discipline Committee, Cultural and Nature Clubs.

##### **GENDER EQUITY**

The Institute engages the students to participate in sports and cultural activities. The College has signed MOU with hospital for common medical facility which can be utilized by the students and staff members. The Institution has a functional Women Empowerment Cell, Gender Equity Cell headed by senior faculty members who look into the problems of girl students regarding personal and academics. Girls and Boys rooms are available with all the amenities. Students Grievances and Redressal Committee has been established for counselling of students on received grievances. The above-mentioned cells have been organizing various programs for girl students, women safety, women empowerment and Health care programs for both boys and girls. Common rules are made available for the students who resides in hostel facility inside the campus.

##### **HUMAN VALUES**

A necessary part of curriculum is to inculcate good human values among students. Our Institute always believes to make each student a good human and an ethical Engineer. College has Anti ragging committee to ensure ragging free campus. Counseling and mentoring committee headed by senior faculty members to take care of human values.

##### **ENVIRONMENT AND SUSTAINABILITY**

Our Institute is a green campus consisting of enormous trees and plants which helps in surplus oxygen supply in the surrounding environment. College follows plastic free and Pollution free campus. By considering depleting energy sources and to maintain pollution free a Solar Energy Park model has been installed. A detailed Environmental audit and green audit for the institute has been carried out regularly. The college has been conducting various social events such as tree plantation, rallies, and seminars to create social awareness among people through Nature club, National Service Scheme etc. The environment issues are dealt in classroom through a regular course Environmental Science and Engineering for the students.

## PROFESSIONAL ETHICS

Institute has equal importance for professional ethics along with academics because knowingly and willingly none should involve in wrong behaviors. Professional ethics encompasses personal and corporate standards of behavior expected by professionals. The students of different branches in Engineering and Management study Professional Ethics that address to learn moral values. The college organizes various personality development programs through Placement cell to increase the employability of students. Industrial Visits and Internship programs are included in curriculum and experts from corporate are invited to share their views to understand corporate standards and culture.

File Description	Document
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years

**Response: 50**

#### 1.3.2.1 Number of courses that include experiential learning through project work/field work/internship year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
237	254	160	139	131

File Description	Document
Programme / Curriculum/ Syllabus of the courses	<a href="#">View Document</a>
MoU's with relevant organizations for these courses, if any Average percentage of courses that include experiential learning through project work/field work/internship	<a href="#">View Document</a>
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 1.3.3 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

**Response:** 70.82

#### 1.3.3.1 Number of students undertaking project work/field work / internships

Response: 944

File Description	Document
List of programmes and number of students undertaking project work/field work/ /internships	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 1.4 Feedback System

**1.4.1 Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders 1) Students 2)Teachers 3)Employers 4)Alumni**

**Response:** A. All of the above

File Description	Document
Any additional information (Upload)	<a href="#">View Document</a>
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	<a href="#">View Document</a>
URL for stakeholder feedback report	<a href="#">View Document</a>

**1.4.2 Feedback process of the Institution may be classified as follows: Options:**

**1.Feedback collected, analysed and action taken and feedback available on website**

2. Feedback collected, analysed and action has been taken
3. Feedback collected and analysed
4. Feedback collected
5. Feedback not collected

**Response:** A. Feedback collected, analysed and action taken and feedback available on website

File Description	Document
Upload any additional information	<a href="#">View Document</a>
URL for feedback report	<a href="#">View Document</a>

N  
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## Criterion 2 - Teaching-learning and Evaluation

### 2.1 Student Enrollment and Profile

#### 2.1.1 Average Enrolment percentage (Average of last five years)

**Response:** 55.79

##### 2.1.1.1 Number of students admitted year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
413	311	336	499	532

##### 2.1.1.2 Number of sanctioned seats year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
726	666	768	768	798

#### File Description

#### Document

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)

#### 2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy ) during the last five years ( exclusive of supernumerary seats)

**Response:** 55.51

##### 2.1.2.1 Number of actual students admitted from the reserved categories year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
266	223	231	396	319

#### File Description

#### Document

Average percentage of seats filled against seats reserved

[View Document](#)

Any additional information

[View Document](#)

## 2.2 Catering to Student Diversity

### 2.2.1 The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

#### Response:

Our institute admits through

- (i) Affiliated University (Anna University) counselling and
- (ii) Admission based on Merit list prepared by Consortium of Self-Financing Engineering Colleges.

The admitted students represent a combination of bright and average students for better learning environment and measures are taken for their betterment.

Library facility is available to all students and separated categories are permitted to borrow the books from the library for effective presentation in the examination. Parents are invited in the middle of semester to interact with concerned Class advisors/ mentor to discuss the progress of their wards.

Mentor-mentee relationship is followed in our institution. The mentor, herewith called Class advisor has to maintain a Students' Record, to keep track of the records of the mentees. This is to help and to differentiate the slow and advanced learners.

During the pandemic period special hours were allotted for slow learners through online mode.

Learners have different learning attitudes and learning habits. The objective of assessment process of the learning levels of the students:

- Factors affecting the student's performance.
- To analyze them with respect to the institutional framework.
- To provide a proper solution for successful career.

## 2. IDENTIFY SLOW AND ADVANCED LEARNERS

### 2.1 Student Information Form

Every faculty advisor/mentor maintains a students' record

Following records are to be maintained by Class Advisor/mentor of each class:

1. Student Information record
2. Marks Statement (Internal Assessment and University Exams)
3. List of slow and advanced learners of their batch.
4. Remedial measures are taken and details (circulars and notices)
5. Records of activities for both types of learners

## 2.2 Process to Identify Slow and Advanced Learners

S.No.	Assessment Criteria
1.	<b>Problem Solving Skills:</b>
	Previous University Exam Score
	Class Tests
	Attendance
	Assignments and tutorial
2.	<b>Other parameters:</b>
	Ability to answer the questions in class
	General awareness
	Attentiveness

The process of identifying slow and advanced learners is as shown in the table. All students of a particular batch are assessed on following parameters:

Based on above assessed parameters students are classified into groups:

1. Slow Learners
2. Advanced Learners are ahead on the learning dimensions for the betterment in their career life.

### 3. INITIATIVES FOR ADVANCED AND SLOW LEARNERS

#### 3.1 Advanced Learners:

The following Special activities are conducted for Advanced Learners:

- Bright and diligent students are motivated and inspired to get university ranks.
- Semester toppers and university rank holders are honoured with certificates and cash prizes.
- Encouraging to participate in various symposiums like quiz, poster presentation,
- Conferences, inter institution competition etc.
- Guiding the students for GATE/Competitive Examinations.
- Guiding and encouraging to publish/present research papers in conferences/Journals
- Training programs for gaining advanced technical knowledge.
- Guiding for career planning, Newgen IEDC Project and TNSCST Project competition.

#### 3.2 Slow Learners:

The following activities are conducted for slow Learners:

- Remedial classes conducted for Slow Learners.
- Special Coaching class and Counseling is given to slow learners.
- Previous year Question papers and Question Banks for all subjects are circulated among slow learners.
- Students are given repeated practice on important questions.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Past link for additional Information	<a href="#">View Document</a>

**2.2.2 Student- Full time teacher ratio (Data for the latest completed academic year)****Response:** 9:1

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

**2.3 Teaching- Learning Process****2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences****Response:**

In addition to traditional teaching-learning methods, the institute is highly enthusiastic in providing innovative ideas for enriching the learning experience. The methodologies include illustration and special lectures, field study, case-studies, project-based-methods, experimental methods.

Our institute encourage the learners to get practiced in an interactive way through virtual learning' during the pandemic time and issued materials which posted in the Learning Management System and at the same time the slow learners were focused also special care were taken towards in providing important questions from previous year university question papers and also made them to submit the assignment in the online mode.

**Experimental Learning:**

In the experiential learning process, the learner is actively engaged in posing questions, investigating, experimenting , creative and being curious in solving problems .

- State- of- art laboratories have been established for students to impart the experiential learning through Theory to Practice Lectures.
- Our Institution established e-learning facilities and resources like NPTEL, Learning Management System (LMS), Content Management System, e-books and e-journals, digital library to improve their creative thinking in technical and research fields.
- Our Institution established industry powered centers to train the students on emerging technologies

**Participative learning:**

Our Institution is in collaboration with MHRD Institution Innovation Council to promote creativity and critical thinking among students through active participation in webinars, project competitions.

A pedagogical approach involving students of different cognitive levels was made to learn in a collaborative manner in mini projects as well as major projects' to accomplish an assigned task.

The students 'learning methodology is tuned by peer-to-peer learning so the learners would involve in sharing their views and come out with apt solutions for the defined problems.

Role play and Brainstorming are practiced for feasible content to learn the concepts in an easy way.

Our Institution consists of various club activities like Nature club, Energy club, Photography club, Science club etc., to exhibit their individual and teamwork in communicating the needs and responsibilities which are quite needed to deal the society in an ethical manner.

Nehru Corporate Placements and Industrial Relations (NCP&IR) ensures the students are trained on domain-related tools, technologies and soft skills. Our institutions has partnered with Global technology companies like Microsoft, Oracle, Red hat, EMC, Autodesk, Open stack and many more to train our students on various technologies including Cloud Computing.

#### **Problem-solving Methodologies:**

- Our academic time table inculcates technical seminar hours to enrich students' in presenting the concepts to get confidence in solving the problem-solving skills.
- Assignments in higher level of thinking are given to the students to break down ideas into simpler parts and find evidence to support self-learning abilities.
- Students are encouraged to find out the solutions for real time problems via case studies, hackathon and field/industrial projects.
- Field visits, In-plant trainings have been organized to make the students acquaint with industry standards and work ethics.
- Tutorial classes are conducted with collaborative learning for the students to improve their problem-solving ability.
- Industry based projects are carried by the students.

<b>File Description</b>	<b>Document</b>
Upload any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

#### **2.3.2 Teachers use ICT enabled tools for effective teaching-learning process.**

##### **Response:**

The innovation in teaching is necessary to engage the students for the course. At the end of the course, the average students will excel in performance and attain the course outcome within-depth knowledge. To overcome the difficulties of slow and inactive learners for attaining the course outcome, it is necessary to renovate the teaching methodology. A few innovative learning methods like Google classroom, online education, project-based learning, and activity-based learning provoke the slow learners to be more active in learning the course. The current generation students are smart minded learners so the teaching may be modified to their satisfaction. In this, the usage of ICT tools would facilitate the learners to be an active participation with the teachers in the class room environment.

In the pandemic time also the learners were encouraged and motivated by attend the MCQ , Quiz questions through innovative teaching methodology and also demonstrated the concepts through video

learning which rejuvenated their mind in interactive learning.

Our Institute facilitates relevant Information and Communication Technology tools for effective teaching and learning. The Information and Communication Technology (ICT) tools are the latest technology used among students. ICT facilitated classrooms such as LCD projectors with Wi-Fi facilities are provided to enable the students to visualize the concepts being taught.

Our institute builds a bridge between students and technology through Content Management System (CMS) by providing resources and materials for various courses. Content Management system provision also incorporates Google Classroom teaching to make each individual participate eagerly. Google Classroom enables students to access materials like course plan, lecture materials, question bank with answers, sample university question papers, Formula book, assignments and tutorials by the students anywhere digitally through students' mail id.

We also craft education by conducting quiz, brainstorming and discussion through the Kahoot tool. This Kahoot learning game involves the entire students in the class to play the quiz on time basis utilizing their phones.

Faculty members teach their concepts clearly by presentation, animations, video lectures to students through smart board teaching and NPTEL videos. Our Institute provides a gateway to access the course materials and videos opted by NPTEL to enhance students' understanding capability.

Course teachers help the students to hone their skills through participative learning exercises such as CLG–Collaborative Learning Group, SOLE -Self Organizing Learning Environment, Group Discussion, Case Studies, Quiz, Demonstration of videos, Models, Charts, etc.,

Faculties motivate a few students to present technical seminars on some topics using PowerPoint presentation to support learning methods and the same was recorded and uploaded in YouTube link for students' references.

Class advisors create a Whatsapp group to communicate information and to share study materials for preparation during examinations.

We create interest towards Research activities by insisting our students to update the recent technology by referring various journals through Digital library, DEL NET, Science Direct, Library Web pages, DIGI MAT digital repository, NDLI links.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	<a href="#">View Document</a>

### 2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed

academic year )

**Response:** 9:1

2.3.3.1 Number of mentors

Response: 147

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll.	<a href="#">View Document</a>
mentor/mentee ratio	<a href="#">View Document</a>
Circulars pertaining to assigning mentors to mentees	<a href="#">View Document</a>

## 2.4 Teacher Profile and Quality

**2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years**

**Response:** 109.22

File Description	Document
Year wise full time teachers and sanctioned posts for 5years(Data Template)	<a href="#">View Document</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)**

**Response:** 19.46

**2.4.2.1 Number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. year wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
38	32	33	25	27

File Description	Document
List of number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. and number of full time teachers for 5 years (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)

**Response:** 5.68

#### 2.4.3.1 Total experience of full-time teachers

Response: 834.7

File Description	Document
List of Teachers including their PAN, designation, dept and experience details(Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 2.5 Evaluation Process and Reforms

### 2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode

**Response:**

The Institute is affiliated to Anna University, Chennai and follows the Examination pattern of the university. Anna University guidelines are strictly followed for evaluation process. There are three internal tests conducted. The schedule of internal assessments is communicated to students and faculty in the beginning of the semester itself through institute academic calendar which is prepared, based on the university academic calendar.

The institute has reformed the continuous internal evaluation system from faculty centric to student centric. The Institute Exam cell has framed guidelines for conducting the CIE in line with calendar of the Affiliated University. As per the guidelines, the following reforms have been carried out effectively conducting CIE:

- Schedule, Seating arrangements and hall invigilators listed for every examination.
- Preparing the question paper for the internal examination in the prescribed pattern based on revised Blooms taxonomy.
- Scrutiny of the prepared question paper is carried out by HoD/ Subject expert to ensure the quality of the Question paper.
- Monitoring the attendance of the students for the Examination.
- Internal Assessment has to be carried out within the stipulated time, under the supervision of

faculty members

- Result review meetings are conducted with result analysis and remedial actions for further improvements are arrived after discussion with the faculty and the HoD
- Uploaded marks in university web portal subsequently communicated to parents

The questions are selected in turn which meets the Course Outcomes. Question papers are prepared for each course by the course coordinator and it is distributed from the Examination Cell before the commencement of examination. After evaluation internal assessment answer scripts are issued to the students in the class to clarify their doubts on their answer scripts. Students can interact with the teacher to resolve grievances if any, regarding the assessment.

The evaluation for theory courses is assessed in direct mode covering both internal and university examinations and indirect covers course end survey.

The evaluation for laboratory courses and theory courses are assessed in the similar pattern.

The evaluation for project course is assessed by conducting periodical project reviews covering key parameters like problem formulations , understanding of the project, presentation skills, communication of ideas , Technical knowledge , Team work and project management. Major project consists of 200 marks. The project review committee organizes review meetings to assess the progress of all the project batches.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

### 2.5.2 Mechanism to deal with internal/external examination related grievances is transparent, time-bound and efficient

#### Response:

The institute has devised an efficient, transparent mechanism to deal with examination related grievances and rectification of grievances is done properly on correct time.

The college follows strictly the guidelines and rules issued by the affiliating university while conducting internals and end-semester examination.

#### At Institute level:

At the Institute level, an examination committee, comprising of a senior faculty member represented as a convener and other faculty members will also act as a member which is constituted to handle the issues regarding the evaluation process. If any discrepancy like change in the question paper, mark allocation, correction in answer scripts is noticed by the students then the concerned teacher will resolve the discrepancy, and the same necessary corrections will be made on time. If a student is not satisfied with the marks awarded, even after resolved by the teacher, then he/she may represent the same to the HOD

concerned. All such representations are taken positively and are reassessed by senior faculty member.

Parents are informed about their ward's performance through post. Students are counseled by the faculty mentor, and remedial classes are conducted for them who happen to fail in the examinations. Retests for the Internal Assessment are conducted for Students who remain absent for internal exams due to genuine reasons.

During the pandemic also, our institute conducted internal tests through online. Retests are conducted for absentees.

The Internal assessment marks are entered in the University web portal by the respective subject faculty so that students could individually view their marks in the University portal through students log in.

#### **At University level:**

Students can bring their grievances by applying for the following evaluation procedure:

#### **Re-evaluation:**

Students can apply for re-evaluation of their answer scripts within a week from the declaration of results if they are not satisfied with their results. The answer scripts are re-evaluated by the course handling faculty. Based on the recommendation of the faculty, student can apply for reevaluation. The results of the re-evaluation will be announced as per the university norms.

#### **Challenge Re-evaluation:**

If the student is not satisfied with his reevaluation results, another chance is given to improve his marks by applying challenge re-evaluation, as per the university norms.

<b>File Description</b>	<b>Document</b>
Any additional information	<a href="#">View Document</a>
Link for additional information	<a href="#">View Document</a>

## **2.6 Student Performance and Learning Outcomes**

**2.6.1 Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.**

#### **Response:**

The institute has formulated well-defined Vision and Mission statements and in correlation with this, each department formulated its own vision and mission statements that have been approved by the Department Advisory Committee (DAC). The department formulates the Programme Educational Objectives (PEOs) and Program Specific Outcomes (PSOs). The course outcomes (COs) are mapped with programme

outcomes (POs) and Program Specific Outcomes (PSOs) for all the courses in the curriculum. In the Department Advisory Committee (DAC), all outcomes are analyzed and approved. The PEOs, PSOs, POs and COs Statements are published in the Institute Website and communicated to Various Stakeholder.

The respective subject faculty expatiate the course outcomes to the learners. The objectives and outcomes of each topic are expatiated to the learners for the betterment and to create the confidence among the learners to take up the university Examination.

### **Programme Outcomes (POs) and Programme Specific Outcomes (PSOs) Formulation.**

The Graduate Attributes (GA) of Engineering Program defined by Washington accord is adopted without alteration as Program Outcomes (POs). Articulation of PSOs and identification of the knowledge/Skill/Attitude Level were done through sequence of meetings based on the suggestions from stakeholders.

#### **Course Outcomes (COs) Formulations:**

Articulation of COs based on revised bloom's taxonomy and identification of the Knowledge/Skill/Attitude Level were framed by course handling faculty with the suggestion of course coordinator. COs are mapped with POs / PSOs by course handling faculty with the suggestions of the course coordinator. Verification of compliance for attaining the POs/PSOs is done in the Department meeting for all courses.

Teachers are aware of Programme outcomes and course outcomes by attending different programs arranged by the institution. Faculties are oriented by many workshops and seminars on Outcome Based Education (OBE). Faculty members have attended many programs related to Outcome-based Education.

If there is any non-compliance, then DAC identifies the slightly Supported POs/PSOs. Based on the recommendations of DAC, additional COs and activities are framed to support POs/PSOs. Content beyond the syllabi/Virtual Lab Experiments/Co-Curricular Activities for better compliances were approved by DAC. Recommendations of DAC for better compliances were implemented by the course handling faculty in Teaching-Learning Process.

#### **The mechanism for dissemination:**

The process for publication and dissemination of the stated vision, Mission of the Institute/ Department, POs/PSOs/PEOs/COs of the programme are carried out by the listed mechanism:

- Website: Vision, Mission, POs, PSOs, PEOs and COs are published on the college website.
- Posted Location: Banner is exhibited in the main floor of the concerned department. They are also prominently displayed on the Department Notice Board.
- Catalogues of the Department: The Catalogues are disseminated to all the stack holders of the program through faculty meetings, Parents meetings, News Letter, Alumni meetings, and Conferences.
- Curricular Books and Department Publications: Vision and Mission are published in the Practical Observation, Record Note, Handbook, Faculty Log book, Department Magazine and Newsletter.

File Description	Document
Upload COs for all Programmes (exemplars from Glossary)	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>
Past link for Additional information	<a href="#">View Document</a>

## 2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution.

### Response:

#### Attainment of Course Outcome:

In the Outcome-Based Education (OBE), assessment is done through more than one process, which is carried out by the institution that identifies, collects, and prepares data to evaluate the achievement of course outcomes (COs).

The attainment for each course outcome is generally divided into two types:

1. Direct Assessment method
2. Indirect Assessment method

The direct assessment is measured from internal assessment and external assessment.

The internal assessment for each course is based on:

This assessment method evaluates the student's knowledge and skills. It is based on student's academic performance in continuous internal assessment tests, seminars, classroom and laboratory assignments, semester examinations, etc. This method displays strong evidence of student's learning.

Indirect assessment is measured through course end survey.

#### Process for measuring CO attainment:

- 80% of formative and summative assessments are carried out to calculate the direct attainment of courses.
- 20% of the Course End survey is considered to calculate the indirect attainment of courses.
- 100% of course attainment is brought out by the comprehensive (direct and indirect) attainment of all the courses

The process used for setting course attainment benchmark values.

- The course-wise university grades for previous years were analyzed.
- The course proficiency and the level of attainment are set by the course coordinator.

- The appropriate course target level for the entire programme is set in the DAC Meeting.
- The set target level is revised in the DAC Meeting after the attainment of three consecutive batches is achieved.

### Attainment of Program Outcomes and Program Specific Outcomes:

PO/PSO assessment is done by giving 80% weightage to direct assessment and 20% weightage to indirect assessment. Direct assessment is based on CO attainment, where weightage is given to attainment through university exams and internal assessments. Indirect assessment is done through the programme exit survey.

Assessment Tools – PO/PSO attainment

1. Direct Mode: Course Attainment
2. Indirect Mode: Programme Exit Survey

Frequency of evaluation: At the end of programme completion.

The process used for setting POs / PSOs attainment benchmark values:

- The target values for POs / PSOs attainment for the entire programme are reviewed and approved by DAC Meeting considering POs / PSOs attainments of previous batches.
- The POs / PSOs target level is revised after the attainment of three consecutive batches are achieved.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for Additional information	<a href="#">View Document</a>

### 2.6.3 Average pass percentage of Students during last five years

**Response:** 82.05

#### 2.6.3.1 Number of final year students who passed the university examination year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
450	378	260	377	511

#### 2.6.3.2 Number of final year students who appeared for the university examination year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
453	385	440	517	633

File Description	Document
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>
Paste link for the annual report	<a href="#">View Document</a>

## 2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process	
Response:	
File Description	Document
Upload database of all currently enrolled students (Data Template)	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>

## Criterion 3 - Research, Innovations and Extension

### 3.1 Resource Mobilization for Research

**3.1.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)**

**Response:** 324.44

**3.1.1.1 Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)**

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	287.89	35.6	0.95

File Description	Document
List of endowments / projects with details of grants	<a href="#">View Document</a>
e-copies of the grant award letters for sponsored research projects / endowments	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.1.2 Percentage of teachers recognized as research guides (latest completed academic year)**

**Response:** 10.2

**3.1.2.1 Number of teachers recognized as research guides**

**Response:** 15

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

**3.1.3 Percentage of departments having Research projects funded by government and non government agencies during the last five years**

**Response:** 25

**3.1.3.1 Number of departments having Research projects funded by government and non-government agencies during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	6	2	2

### 3.1.3.2 Number of departments offering academic programmes

2020-21	2019-20	2018-19	2017-18	2016-17
9	7	8	8	8

File Description	Document
Supporting document from Funding Agency	<a href="#">View Document</a>
List of research projects and funding details	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Paste link to funding agency website	<a href="#">View Document</a>

## 3.2 Innovation Ecosystem

### 3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

#### Response:

The institute strives the young technocrats to foster the culture of learning new technologies and carry out the projects through our Centre of Excellences. The training is being given to the students on specific domain according to the industry needs and makes them ready to work in the thrust areas. For that our institute has good tie-ups with many core industries.

**New Generation and Innovation Entrepreneurship Development Centre (NEW GEN IEDC):** NEW GEN IEDC supports Students' innovative projects with a Grant-in-aid of Rs.2.5 lakhs per project to develop their innovative idea into prototype.

**CISCO Networking and Security Laboratory:** The main objective is to provide industry based training programmes in Networking & Security and Firewall Installation to the students. M/s Avatar Academy offers the CISCO training programme at our college premises.

**Intel Intelligent Systems Laboratory:** The primary objective of Intel Intelligent Systems Laboratory is to enhance the students' skills in the domain of Internet of Things (IoT) through seminars, workshops and training programmes.

**Texas Instruments (TI) Laboratory:** The TI University Program is the intersection between TI technology, educators and the engineers of tomorrow. Our advanced analogue and embedded processing technologies trigger the passions of students and educators in the university labs worldwide.

**Aero Modeling and Unmanned Aerial Vehicle (UAV) Laboratory:** This Laboratory is well equipped with all necessary facilities. In this laboratory, students can carry out design and fabrication of their flying models. Besides, students are encouraged to utilize the Aero Modeling and UAV Laboratory for developing their skills in the domain of UAV projects.

**P.K Das Energy Park:** The main objective of this energy park is to create an awareness and impact of renewable energy sources among the student community. Students are encouraged to carry out projects in the area of renewable energy sources.

**Industry Institute Interaction Cell (IIC):** This cell facilitates the MoUs with industries in order to provide the training, field trips, Inplant Training and internship etc, for the students. The IIC enables to conduct technical seminar, workshops, Faculty Development Programmes for the students and faculty members with the support from industry experts.

**Knowledge Corner:** The topics are selected in narrow region of engineering stream based on current developments by the resource persons from various industries and MNCs on every Friday. Special topics will be given to the students and invite them to take seminar.

**I Cube:** I cube is an integrated display hall of best projects developed by the students to rework their idea for developmental activity. The best projects are identified and reviewed by the senior professors in the department. Based on the suggestions, old projects are replaced by new innovative projects every year.

**Centre of Excellence in CAD:** It is established for encouraging the students to design their aspects and it is a platform for conducting the value added courses apart from the curriculum. Students are able to design real time industrial components and models by undergoing project with MoUs signed companies (ARK Info solutions Pvt Ltd and MACBRO India Pvt Ltd)

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

### 3.2.2 Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years

**Response:** 47

#### 3.2.2.1 Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
11	6	15	8	7

File Description	Document
Report of the event	<a href="#">View Document</a>
List of workshops/seminars during last 5 years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.3 Research Publications and Awards

#### 3.3.1 Number of Ph.Ds registered per eligible teacher during the last five years

Response: 0.47

##### 3.3.1.1 How many Ph.Ds registered per eligible teacher within last five years

Response: 7

##### 3.3.1.2 Number of teachers recognized as guides during the last five years

Response: 15

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
URL to the research page on HEI website	<a href="#">View Document</a>

#### 3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the last five years

Response: 1.3

##### 3.3.2.1 Number of research papers in the Journals notified on UGC website during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
44	25	52	53	36

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

### 3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

**Response:** 1.05

#### 3.3.3.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
37	5	60	49	19

File Description	Document
List books and chapters edited volumes/ books published	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 3.4 Extension Activities

### 3.4.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

**Response:**

#### 3.4.1 Extension activities in the neighbourhood community in terms of impact and sensitizing students to social issues and holistic development during the last five years

The institute actively takes various initiatives towards the extension and outreach programmes among the students and faculty members to create awareness on social issues with ethical values and the contribution to society. The institute has National Service Scheme (NSS), Youth Red Cross (YRC), Red Ribbon Club (RRC) and Rotaract Club for inculcating ethical standards through the extension and outreach programmes. Students and faculty members took part in various activities in association with government/ non government bodies, industries and Community.

Major activities done by the institution are listed below:

- NSS students of our institute used to carry out tree plantation in the Institution premises every year

on Independence and Republic days.

- As the institute has social responsibility in preventing the spread of corona virus, various programmes like nilavembu kasaiyam distribution, awareness programme on corona virus and its prevention activities, Covid awareness programme, awareness programme on importance of wearing face mask are organized by the institute through NSS/RRC.
- NSS unit of this institute organized blood donation camp in association with Shanthy Social Service, Coimbatore. Near about 487 donors donated their blood in order to help the needy people.
- NSS/YRC/RRC units of this institute have initiated the events like saplings plantation, seed ball preparation, Go- Green celebration in order to create a sustainable environment for the society.
- NSS unit of this institute organized online workshop on Swachhta Action Plan in association with Ministry of Information and Broadcasting, Government of India, New Delhi.
- NSS unit of this institute has organized awareness programme on World Water Day, World Conservation Day in order to preserve the environment and natural resources.
- Eye checkup camp, various awareness programme on dengue, stem cells, plastic, diabetics are organized by NSS/YRC/RRC units in order to lead a healthy life.
- From the inception of year 2010, food is being provided every day morning and afternoon at free of cost to the Thirumalayampalayam village people in the name of Amudha Suraby.
- Our rotaract club of this institute organized personality development programme, Go Green celebration, entrepreneurship development programme, etc. These kinds of activities tend to motivate our students about the conservation of environment for the society and made them as good leaders.
- Institution has APJ Abdul Kalam Club through which the faculty members used to meet the school students of various districts in Tamilnadu & Kerala and address about the awareness on Vision and Mission of Former President of India, Dr.APJ.Abdul Kalam.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

### 3.4.2 Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years

**Response: 5**

#### 3.4.2.1 Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	2	2	1

File Description	Document
Number of awards for extension activities in last 5 year	<a href="#">View Document</a>
e-copy of the award letters	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years

Response: 51

#### 3.4.3.1 Number of extension and outreach Programmes conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
10	8	7	9	17

File Description	Document
Reports of the event organized	<a href="#">View Document</a>
Number of extension and outreach Programmes conducted with industry, community etc for the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.4.4 Average percentage of students participating in extension activities at 3.4.3. above during last five years

Response: 71.43

#### 3.4.4.1 Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
875	609	1385	1468	1482

File Description	Document
Report of the event	<a href="#">View Document</a>
Average percentage of students participating in extension activities with Govt or NGO etc	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.5 Collaboration

#### 3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year

**Response:** 139

##### 3.5.1.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
42	30	28	27	12

File Description	Document
e-copies of related Document	<a href="#">View Document</a>
Details of Collaborative activities with institutions/industries for research, Faculty exchange, Student exchange/ internship	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years

**Response:** 26

##### 3.5.2.1 Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
4	3	7	9	3

<b>File Description</b>	<b>Document</b>
e-Copies of the MoUs with institution/ industry/corporate houses	<a href="#">View Document</a>
Details of functional MoUs with institutions of national, international importance, other universities etc during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

NVAAC

## Criterion 4 - 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 equipment etc.**

**Response:**

Our institution provides the right environment for learning which is located at Thirumalayampalayam, Coimbatore with the area of 10.56 acres. It is pollution free and green environmental Campus.

**CLASS ROOMS:**

Our Institution has well planned infrastructure, comprising of 48 ICT enabled class rooms, 4 Smart class rooms, 2 drawing halls, 4 seminar halls and board room. Each Class room has good spacing capacity with adequate ventilation. It is equipped with enough physical and Academic facilities. The seminar halls are equipped with LCD projector, computer with internet connectivity and public address system.

**LABORATORIES AND COMPUTING EQUIPMENTS:**

Our Institution has 36 Laboratories with required equipment and required software for all the departments. All the laboratories are equipped with safety measures like fire extinguishers, first aid box etc. Each Laboratory consists of List of Experiments boards, Do's and Don'ts board, Safety precaution board, Notice board and dissemination of vision, mission, POs and PSOs. Electric power supply is primary source and UPS & gensets are Stand-by source for laboratories. Our Institution has 745 computers with internet facility. All the computing Laboratories are equipped with printers.

Our Institution has various Centre of Excellence like Aero modeling and UAV, P.K.Das Energy Park, IoT Laboratory, Texas Instruments laboratory, CAD and Robotics and Automation Laboratory - 6 separate training Centre facilities to provide the opportunities for in-depth understanding of relevant industry technologies and to establish a link between industries and our institution.

**ADDITIONAL FACILITIES:**

- The Institution has three hostels separately for boys with capacity of 220 beds and 350 beds and girls hostel with capacity of 420 beds. Both the hostels are Wi-Fi enabled with modern facilities.

- The institution has followed all aspects of safety and security measures by appointing security guards and CCTV surveillance system for the entire campus to ensure the safety measures. Our institution has also supply of RO Mineral Water, uninterrupted power supply through Generators and UPS backup.
- Availability of transport facility up to 155km around the institution and Separate Parking facility for Faculties and Students.
- A separate Dispensary room with a medical officer is available in the institution.
- Common room is available for both boys and girls separately.
- Our institution also has Canara bank with ATM, canteen (Cafeteria and spicy village) and Stationery shop.
- Rain water harvesting system is installed and maintained in our Institution.
- Bio gas plant is installed in our Institution with generation capacity of 3kg/day by using solid wastes with the maximum capacity of 50 kg / day.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

#### 4.1.2 The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga centre etc.

##### Response:

##### Physical facility for sports and Games:

The institution has immense stress on holistic development of the students by providing various sporting activities. The achievements of the students in various sports activities are an indication of the dedicated attention, which are mainly promoted. Sports activities and programmes that enhance general/specific interest in sports, which are conducted throughout the year.

The institution has 10,000 Sq.m playing area. Also, the institution has indoor sports complex. Every year various sports events are conducted in the sports day. The Institution encourages our students to participate in Sports & Games conducted in other Colleges from various Districts /State level/National level.

**Outdoor games:**

The following outdoor grounds are established in the year 2006

1. Football ground
2. Volley ball ground
3. Kabaddi ground
4. Kho-kho ground
5. Ball badminton ground
6. Basket ball ground

The user rate is more than 110 students per day

**Indoor games:**

1. Chess – 4 Nos
2. Badminton -2 courts
3. Carrom -2 Nos
4. Table Tennis -1 court

The user rate is more than 20 students per day

**Physical facilities for gym and yoga:**

Institution has Gym for both boys and girls with facilities such as Treadmill machine, Abdominal, High pulley, low pulley, sitting twister, standing twister, Bench press, Height plate, Stomach belt etc., Gym has total area of 675sq.m.

The institution has Spacious Yoga Hall of 420 sq.m., that provides regular training for staffs and students.

**Physical Facilities for cultural activity:**

Cultural activities are an integral part of enjoyment and entertainment, as a means of creative expression, for personal growth and the pursuit of excellence, to learn new skills, to meet new people, and to celebrate cultural traditions.

The institute has established a Student Council team under which various clubs' function. The Cultural Club of the institution aims at identifying various hidden talents of the students and helps to bring out their talents. It encourages and brings out the artistic capabilities of students in the field of Music, Dance, Drama, Visual Arts etc.

To promote and motivate the students towards extra-curricular activities, the institute has started various clubs like: cultural club, natural club, Photography club, which conducts selections and auditions for students. An intra-collegiate and inter-college cultural competition is regularly organized by the cultural club. There is an Auditorium with seating capacity of 2500 for organizing cultural programmes.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

#### **4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)**

**Response:** 100

##### 4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 56

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

#### **4.1.4 Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)**

**Response:** 18.17

##### 4.1.4.1 Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
47.89	79.90	51.29	90.11	134.21

File Description	Document
Upload Details of budget allocation, excluding salary during the last five years (Data Template)	<a href="#">View Document</a>
Upload audited utilization statements	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>

## 4.2 Library as a Learning Resource

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

#### Response:

Nehru Institute of Engineering and Technology was established in the year 2006. Our Central Library in the name of PK Das Knowledge Fort which covers an area of 30,000 sq.ft. The library has developed with collection of books and Journals in Science, Engineering, Technology, Humanities and Management. It maintains separate collections of reference books, back volumes of journals and compact discs. The library is using Auto Lib OPAC (Online Public Access Catalogue) and the users can search the Library Online Catalogue by author's name, title, subject and keywords which is available on the campus LAN. The total collection of library volumes is 28854, National Journals, International Journals and Magazine.

<b>Name of ILMS software</b>	Auto Lib
<b>Nature of automation (fully or partially)</b>	Fully
<b>Version</b>	Autolib, Version – 5.0
<b>Year of Automation</b>	2006

It started its functioning with a vision to serve the information needs of its users and to promote a continuous learning. The collections of Text Books, Reference Books, eBooks, Journals, Magazines, e-Journals, Project Report and NPTEL Videos related to engineering and allied subjects. Our Institute is being a member of National Digital Library of India provides additional resources to the students. **The NDLI Club has been awarded as one of the best performing and outstanding contribution in conducting 22 NDLI Club activities since 8th January 2019.**

#### Salient features of the Central Library:

Circulation Section, Student and Faculty Membership Entries, Reports Generations, Reference Section, Periodicals Section, Processing Section, Reprography Section, New Arrivals Display, Books Stack Area, Reading Area and Digital Library . The two floored library building with a reading capacity for 260 users, Online Public Access Catalogue (OPAC) and Document Delivery Service (Printing & Scanning)

In our Digital Library have around 30 computer systems with internet connection it is an added facility for the students and faculties. It has the best resource methods and practices of teaching and learning process taught by the reputed professors of the IITs, IISc, and IIMs. User can access E-Books and E- Journals through “DELNET”

Library Web Page - <https://sites.google.com/view/pkdasknowledgefort>

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for Additional Information	<a href="#">View Document</a>

#### 4.2.2 The institution has subscription for the following e-resources

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases
- 6.Remote access to e-resources

**Response:** A. Any 4 or more of the above

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Details of subscriptions like e-journals, e-ShodhSindhu, Shodhganga Membership , Remote access to library resources, Web interface etc (Data Template)	<a href="#">View Document</a>

#### 4.2.3 Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)

**Response:** 12.12

**4.2.3.1 Annual expenditure of purchase of books/e-books and subscription to journals/e- journals year wise during last five years (INR in Lakhs)**

2020-21	2019-20	2018-19	2017-18	2016-17
3.20	11.14	10.74	20.50	15.00

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

**4.2.4 Percentage per day usage of library by teachers and students ( foot falls and login data for online access) during the latest completed academic year**

**Response:** 13.31

**4.2.4.1 Number of teachers and students using library per day over last one year**

Response: 197

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

### 4.3 IT Infrastructure

**4.3.1 Institution frequently updates its IT facilities including Wi-Fi**

**Response:**

Following are the strategies for deploying and upgrading IT infrastructure and associated facility in our institution.

- The college is facilitated with 745 computers that are accessible to the students and the staff members for academic, research and online examinations.

- The entire campus is monitored by CCTV facility. The CCTVs are installed in the college campus at Ramanujan Block, Dr A.P.J Abdulkalam Block, library etc. which assist to monitor the campus activities.
- Software is purchased and license is renewed as per norms. Internet Bandwidth connectivity is upgraded based on the requirements.
- The institution provides the use of free and open-source software as per guidelines of AICTE and an affiliated University, without violating licensing agreement.
- Wi-Fi connectivity is provided for the entire campus.
- Hardware firewall and Antivirus software are purchased and installed for all the computing equipments to fulfill the safety norms as per the requirement.
- The institute IT assets such as website, E-Resources (DELNET, N-LIST Science Direct, NDLI and CMS) and Campus automation system (ICAMPUZ) are protected against vulnerability and threat with support of antivirus software.
- IT facilities have been updated and upgraded on regular basis and also new IT equipment have been purchased as per the requirements.
- Our Institution IT facility was upgraded to i-3 processor with 500GB Hard disk drive and 4GB RAM in our computer Laboratory on 28.02.2017 and 25.04.2017 in the academic year 2016-17.
- Our Institution IT facility is upgraded to i-5 processor with 500 GB Hard disk drive , 128 GB SSD, 8 GB RAM in our computer Laboratory on 08.05.2019, 27.11.2019, 10.03.2020 and 17.03.2021 for the academic year 2018-19 , 2019-20 and 2020-21.
- Two new Xerox machines have been purchased for exam cell and office on 14.10.2020 and 20.12.2021.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

#### 4.3.2 Student - Computer ratio (Data for the latest completed academic year)

**Response:** 2:1

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Student – computer ratio	<a href="#">View Document</a>

#### 4.3.3 Bandwidth of internet connection in the Institution

**Response:** A. 250 MBPS

File Description	Document
Upload any additional Information	<a href="#">View Document</a>
Details of available bandwidth of internet connection in the Institution	<a href="#">View Document</a>

#### 4.4 Maintenance of Campus Infrastructure

**4.4.1 Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)**

**Response:** 9.22

**4.4.1.1 Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year-wise during the last five years (INR in lakhs)**

2020-21	2019-20	2018-19	2017-18	2016-17
18.42	33.57	17.36	55.80	87.57

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	<a href="#">View Document</a>
Audited statements of accounts	<a href="#">View Document</a>

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

**Response:**

**Procedure for Maintaining and utilizing the physical facilities:**

**Maintenance of the Building:**

Our Institution has a maintenance team that carries out the maintenance activities of buildings, classrooms, seminar halls and laboratories. The maintenance team is headed by Administrative

officer, who the roll of monitors the work of the Campus Supervisor at the next level. Major works are completed during the winter and summer vacations, and minor works are completed as needed without interfering with academic activities.

Housekeeping in-charges are allotted for each block that monitors the daily cleaning of the classrooms, seminar hall and laboratories such as floors, walls, ceilings, exterior/interior doors, and windows. Housekeeping grievances are carried over by the campus supervisor through the Administrative officer and grievances are rectified regularly.

Electrical Supervisor is appointed in our institution for rectifying electrical complaints on regular basis. The repairs and service records are maintained by Electrical Supervisor. Inventory Coordinators are appointed in our institution for auditing physical and academic facilities every academic year.

#### **Procedure for Maintaining and utilizing the Academic facilities:**

#### **Maintenance of Laboratories:**

All the Laboratories are maintained periodically on regular basis, those reports are maintained by laboratory Technicians. Close monitoring of maintenance activities is a primary responsibility of HoD with respective laboratory in-charges.

All the measuring instruments are calibrated on regular basis. Laboratory in-charges submit the requisition for consumables before the start of every semester through HoD, Administrative Officer, and Principal. After getting approval those consumables are purchased and utilized. If any equipment service is required, Laboratory In-charge and Laboratory technician submit the requisition for service and after approval, the service is carried over by supplier and verified by Laboratory In-charge.

#### **Library Maintenance:**

The Librarian is responsible for the maintenance of the library books, journals, periodicals, furniture, electronic equipment, computers, and software, with the help of a team for library Maintenance. Our Institution has a Library Advisory Committee, which helps in guiding the library for effective services. Autolib software is installed for monitoring the entry of Students and Faculty.

Stock Verification is done periodically, which provides opportunities to weed out long unused, very old editions of the books from the library. It also leads to the cleaning and dusting of books and thus preventing their deterioration. All the torn and old books which could not be used for circulation have been kept separately.

### **Computer Maintenance:**

The Centralized Computer Centre (CCC) is in charge of all IT infrastructure maintenance and all Computing equipment maintenance. Laboratory technician under the supervision of the System Administrator maintains all computing equipment of the Institution. A dedicated web portal (<https://goo.gl/Y6LfWE>) is for lodging IT-related complaints, overseen by system administrator periodically. Minor Complaints are carried over by Laboratory technicians and major complaints are given to outsourcing service through the system administrator and Administrative officer.

### **Procedure for Maintaining and utilizing the supporting Facilities:**

#### **Sports ground Maintenance:**

The Director of Physical Education of the institution is in charge of the Sports ground and Equipment. The sports Grounds like football, volleyball, Ball Badminton, and Cricket are regularly cleaned and maintained by the director of physical education with help of the campus supervisor. Maintenance includes grass cutting, flattening of ground and white painting of the post is done whenever necessary.

#### **Sports Equipments maintenance:**

The director of Physical Education periodically checks the sports equipment and request for service through the administrative officer and principal. Consumables (Balls, T-shirts, tracks, etc.,) are purchased yearly once and stocks are maintained by the director of Physical Education.

#### **Gym Maintenance:**

A separate Gym Trainer is appointed in our Institution for training and maintaining the Gym. Gym Equipment is inspected by the trainer and service requirements are submitted to maintain and service equipment as on need.

#### **GENSET, UPS, and Water Doctor maintenance :**

Our Institution has Generators and UPS in and out of college buildings to provide supplementary

power supply during power cuts. Maintenance of GENSET and UPS is supervised by a separate technician team of AMC, they perform regular maintenance for GENSET and UPS, records are also maintained.

Our Institution has a water doctor on each floor of all the buildings which are serviced and maintained regularly by Crossfields waterpurifiers private limited.

**Dispensary Maintenance:**

Our Institution has a separate dispensary room with a medical officer. In the event of an emergency, the college has a dynamic network with local hospitals that provide ambulance services.

**Harvesting Rainwater:**

Rainwater harvesting has been implemented in our institution throughout buildings, one rainwater collecting pit which restores the rainwater is installed and maintained regularly by the Campus supervisor through the Administrative officer.

**Security:**

The College security operation is outsourced, and security guards patrol the campus 24 hours a day, seven days a week. The security liaison officer is in charge of the security operations. CCTV is installed in all the major locations of the campus.

**Garden Maintenance:**

Our Institution maintains the garden through routine activities such as thinning, weeding, fertilizing, watering plants, composting, and pest monitoring. All these activities are taken care of by the campus Supervisor and his team.

**Bio-Gas Maintenance:**

In Our Institution, the Bio-gasplant is maintained and produces the gas of 3kg per day by solid wastes. It is regularly monitored and maintained by the Maintenance team.

**Transport Maintenance:**

Transport in charge of the Institution oversees the maintenance of all transport vehicles. Drivers take responsibility for route and schedule of traveling, overseen by the administrative officer. Fitness certificates and maintenance of vehicles are done on a regular basis.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

NAAC

## Criterion 5 - Student Support and Progression

### 5.1 Student Support

#### 5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during last five years

Response: 65.58

##### 5.1.1.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

2020-21	2019-20	2018-19	2017-18	2016-17
873	927	1104	1152	1156

File Description	Document
upload self attested letter with the list of students sanctioned scholarship	<a href="#">View Document</a>
Upload any additional information Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years (Data Template)	<a href="#">View Document</a>

#### 5.1.2 Average percentage of students benefitted by scholarships, freeships etc. provided by the institution / non- government agencies during the last five years

Response: 5.79

##### 5.1.2.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

2020-21	2019-20	2018-19	2017-18	2016-17
112	97	103	87	38

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Number of students benefited by scholarships and freships institution / non- government agencies in last 5 years (Date Template)	<a href="#">View Document</a>

### 5.1.3 Capacity building and skills enhancement initiatives taken by the institution include the following

1. Soft skills
2. Language and communication skills
3. Life skills (Yoga, physical fitness, health and hygiene)
4. ICT/computing skills

**Response:** A. All of the above

File Description	Document
Details of capability building and skills enhancement initiatives (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link to Institutional website	<a href="#">View Document</a>

### 5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years

**Response:** 67.82

#### 5.1.4.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
1176	684	1409	1226	817

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 5.1.5 The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

1. Implementation of guidelines of statutory/regulatory bodies
2. Organisation wide awareness and undertakings on policies with zero tolerance
3. Mechanisms for submission of online/offline students' grievances
4. Timely redressal of the grievances through appropriate committees

**Response:** A. All of the above

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

## 5.2 Student Progression

### 5.2.1 Average percentage of placement of outgoing students during the last five years

**Response:** 44.77

#### 5.2.1.1 Number of outgoing students placed year - wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
242	179	190	224	236

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Self attested list of students placed	<a href="#">View Document</a>
Details of student placement during the last five years (Data Template)	<a href="#">View Document</a>

### 5.2.2 Average percentage of students progressing to higher education during the last five years

**Response:** 17.88

**5.2.2.1 Number of outgoing student progression to higher education during last five years**

Response: 81

File Description	Document
Upload supporting data for student/alumni	<a href="#">View Document</a>
Details of student progression to higher education (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)**

Response: 60.56

**5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations, etc.)) year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
7	8	1	1	3

**5.2.3.2 Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
11	12	8	1	5

File Description	Document
Upload supporting data for the same	<a href="#">View Document</a>
Number of students qualifying in state/ national/ international level examinations during the last five years (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 5.3 Student Participation and Activities

**5.3.1 Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.**

**Response:** 157

**5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level (award for a team event should be counted as one) year-wise during the last five years.**

2020-21	2019-20	2018-19	2017-18	2016-17
10	18	46	32	51

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national/international level during the last five year	<a href="#">View Document</a>
e-copies of award letters and certificates	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**5.3.2 Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities following duly established processes and norms (student council, students representation on various bodies)**

**Response:**

Our institute encompasses various committees for the development of the students and provides opportunities to take part in the Administrative and Co-Curricular activities.

In every Academic year, a Student is selected as the Class representative, based on merit and interest. The role of the class representative is to act as the channel of communication between the Class Advisor and the students, which helps to inculcate leadership qualities and teamwork among the students. Students will represent their requirements, feedback to the Class Advisor through the Class representative.

Every class shall have a class committee consisting of concerned class teachers, student representatives and a chairperson who is not handling that particular class, with the overall goal of enlightening the teaching learning process. The functions of the class committee is mainly to communicate the student representatives, the academic schedule including the dates of assessment and the syllabus coverage for each assessment. Class Committee analyses the performance of the students of the class after each test and

finding the ways for remedial actions and solutions.

In every Academic year, the students participate in the decision-making process for various activities to be organized by the department like Symposiums, Conferences, Seminars, Workshops, Webinars, Guest Lectures, Value-added courses etc. through meetings. Each department has an association consisting of students and a faculty mentor to discuss and decide the programmes to be conducted.

The college has an overall Student council. Each department will suggest a Student based on their academic performances, who will be constituted (as office bearers) in the Student Council every academic year. The Student council involves in the following activities:

Organizing College day and Avatar (National level intercollegiate and intracollegiate meet) functions every year under the guidance of the convener and the faculty members. Publishing College Magazine 'VISTA' during College Day Celebrations annually. Dissemination of College / Department Vision, Mission, POs, PSOs, PEOs along with other relevant information for the students through student's handbook which is prepared with the help of student council members. Organizing functions like Celebrations of Independence Day, Republic Day and festivals namely Onam and Pongal effectively with the support of the student council advisor and the coordinators. Communicating between management and students to solve the general issues. Extending their support to Principal office/Department. Students have representations in the Transportation Committee for the smooth operation of the Transportation Department which operate buses to various regions of Tamilnadu and Kerala. Student council members aid other students for suggesting their grievances freely through grievance and redressal cell. Girl students have representation in the Gender Equity Cell and Women Empowerment Cell of the college.

Student members are taking part in various other bodies like NSS and YRC which will have activities related to social services in and around Institution, RRC, Rotaract club.

The students give feedback to the Principal about the Academic activities and facilities, which is helpful for the betterment of the Teaching learning process and benefits of the students.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

### 5.3.3 Average number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions)

**Response:** 93.6

#### 5.3.3.1 Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
132	102	68	62	104

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Report of the event	<a href="#">View Document</a>
Number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions (Data Template)	<a href="#">View Document</a>

## 5.4 Alumni Engagement

### 5.4.1 There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

#### Response:

Nehru Institute of Engineering and Technology has an Alumni association in the name of Alumni Connect which helps as a communication channel between Alumni and Institution, also to track the career growth of Graduates, whose meeting is mostly organized in the college campus itself or at major cities every year. The Alumni meetings are to know valuable feedback relevant to industry, career and job opportunities which leads to institute industry collaboration and discuss about the steps to be taken for the continuous improvement and development of the college. These suggestions are conveyed to the Student council through the Principal and necessary steps are taken. The Alumni Association seeks to unite graduates with each other and current students through mentoring and career development programs, events and reunions and a range of volunteer opportunities.

The Alumni Connect is conducted once in a year, where the alumni from different batches expresses their views and give suggestions for the betterment of the junior students. The alumni connect is organized by the Alumni committee/Alumni coordinator of the college. This offers chances for the alumni to meet their friends and act as a bridge for the faculty to share their experience, knowledge and suggestions. The alumni are invited to the institution to deliver talks on career guidance, webinars and seminars for the students in their areas of expertise and motivate the young minds. Alumni who turned into Successful entrepreneurs are invited to deliver a talk about their success stories with the budding engineers.

The Alumni Association also helps the students of the college to get opportunities to undergo industrial visit/ internship in their organizations. They also help the students for getting placement in their organization and alumni connect meetings pave the way for the successful placements of the students.

The institution website provides a link to give constructive feedback and suggestions at anytime from anywhere. Moreover, the members of Alumni association often visit the institute and share their knowledge and experience with faculty members and students. Knowledge and skill development programs are conducted based on their suggestions.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

**5.4.2 Alumni contribution during the last five years (INR in lakhs)****Response:** E. <1 Lakhs

NVAAC

## Criterion 6 - Governance, Leadership and Management

### 6.1 Institutional Vision and Leadership

#### 6.1.1 The governance of the institution is reflective of and in tune with the vision and mission of the institution

##### Response:

The Institutional Governance is effectively implemented by participation of the management, faculty members and stakeholders in tune with the vision and the mission of the institution. The Institution earnestly focuses on making the students into professionals with technical competence and managerial skills with ethical values. The essential goal of the Institution is to make every student as a potential candidate to fulfill the expectancies of the industry and society.

##### VISION

*“Our vision is to mould the youngsters to acquire sound knowledge in technical and scientific fields to face the future challenges by continuous upgradation of all resources and processes for the benefit of humanity as envisaged by our great leader Pandit Jawaharlal Nehru”*

##### MISSION

- *To build a strong centre of learning and research in engineering and technology.*
- *To produce quality engineers, dedicated scientists and leaders.*
- *To encourage entrepreneurship.*
- *To face the challenging needs of the global industries.*
- *To facilitate the youth to learn and imbibe discipline, culture and spirituality.*

##### Governance:

The Institution is presided and administrated with the objective of moulding a true citizen. The Governing Council is chaired by the Management, with the Principal, academicians and Industrial experts as council members. The Governing Council sets well defined goals to reach the required outcome and presents the agenda, the milestones, achievements and challenges. The Governing Council suggestions are adopted into the system for focusing on the continuous growth and sustained development. These suggestions are implemented at all stages through various decision-making bodies like Department Advisory Committee (DAC) and Internal Quality Assurance Cell (IQAC) that address the academic and non-academic issues to meet the vision of the institution.

The DAC and IQAC implement the strategic plans and promote collective participation of all Heads of the Departments, industrial experts, academicians and stakeholders. The Institution always holds its responsibility in all its activities to satisfy the stakeholders.

##### Department Advisory Committee (DAC)

The Department Advisory Committee (DAC) has been framed with the objective of ensuring the department activities in accordance with the Vision and Mission of the Institute. The DAC comprises

academicians from various institutions as well as members from industry and alumni.

### Internal Quality Assurance Cell (IQAC)

IQAC ensures quality standards in teaching learning process, evaluation system and other related activities to develop a quality system for conscious, consistent improvement in the academic, research and overall performance of the institution. The academic schedules are framed to facilitate the creation of a learner-centric environment conducive to quality education. The various quality improvement programmes like FDPs, seminars/webinars, workshops, guest lectures, conferences, symposia etc. are initiated by the IQAC. At the institution level, these programmes are implemented by HODs and Coordinators of various committees. Every semester, the internal and external audits are conducted by IQAC to retain the academic quality. IQAC frequently addresses the students participation through student council in all academic and non-academic activities.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

### 6.1.2 The effective leadership is visible in various institutional practices such as decentralization and participative management

#### Response:

The Institution practices decentralization and participative management by delegating the decision making responsibilities to continue efficiency in their operations.

#### Decentralization

The Management and Principal are responsible for taking policy decisions for the Institution.

The Principal has the authority of controlling and monitoring all the academic and administrative activities of the Institute through IQAC. The various committee coordinators are appointed by the Principal with the consultation of HoDs to carry out specific functions at college level.

The Head of the Department always supports and guides in executing effective teaching learning process with consultation of senior faculty members. The committee coordinators are appointed by the HoDs to carry out specific functions at department level. The class advisors and mentors are appointed by HoDs to monitor the students' activities.

#### Participative Management:

The Management suggested in developing application software for E-Learning, based on the requisition given by the students. A student- faculty committee was framed and developed a Content Management System (CMS) to access e-learning resources. The CMS comprises course materials and lecture videos for

anytime, anywhere access. The contents are regularly updated based on the syllabus regulation and the coordinators from each department have frequent meeting for software up-gradation. This administrative mechanism builds a bridge between faculty and students that enhance participative management functions. The various committees work effectively for the regular functioning of the institute. This kind of administrative mechanism provides participative management functions.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

## 6.2 Strategy Development and Deployment

### 6.2.1 The institutional Strategic / Perspective plan is effectively deployed

#### Response:

I. The Institute focuses in moving ahead to higher level by adapting a strategic plan in tune with the vision and mission of the college. Department has established a Center of Excellence/Laboratory under Industry – Institute collaboration that aids the students for executing innovative ideas for their projects and enables to gain sufficient knowledge on recent trends and technology. The lists of Center of Excellence/Laboratory are,

- Intel Laboratory
- Robotics and Automation Center
- Texas Instruments Laboratory
- MINDBOX
- P.K. Das Energy Park

#### INTEL® Intelligent Systems Laboratory:

INTEL® Intelligent Systems Lab was established in 2016 jointly by INTEL-FICE, India and Nehru Institute of Engineering and Technology. INTEL® Intelligent Systems Lab has been setup with an objective to enhance students' employability skills by bridging the gap between industry and academia. The lab is equipped with INTEL Galileo Kit, Arduino Sensor set for Arduino, Wireless communication Shields and different type of sensors. The personal computer systems interfaced with Intel® Galileo boards are equipped with both Windows, Ubuntu OS and loaded with Arduino IDE. High Speed Internet Connectivity is available to all work stations in the lab. The lab is utilized as a centralized facility for all disciplines of Engineering & Technology of Nehru Institute of Engineering and Technology.

#### Core Objectives:

- To conduct certification courses in Intelligent Systems & IoT for students.
- To enable the faculty to get trained on Instructional Excellence in Intelligent Systems.
- To carry out academic & research projects.

- To facilitate students participation in leading contest.

### Robotics and Automation Center

The objective of establishing Robotics and Automation Center as a Center of Excellence is to mobilize the research potential so as to achieve a qualitatively new level of knowledge in AI, controls, mechanics, robotics, energy. The Center of Excellence is to provide training for all department students and make them industry ready to face the future challenges in the area of intelligent robots.

### Core Objectives:

- To train the students in AI & automation Technology.
- To conduct faculty development programmes.
- To carry out academic & research projects.
- To facilitate students participation in technical events.
- To conduct certification courses for engineering students.

**II.** The strategic plan is implemented through NGI NewGen IEDC for Creative and Innovative startup products from multi-disciplinary student innovators that benefits the native economy for sustainable growth. It also promotes knowledge based and technology-driven Start-ups by harnessing young minds and their innovation potential in College Environment creating entrepreneurship skills among the students

File Description	Document
Upload any additional information	<a href="#">View Document</a>
strategic Plan and deployment documents on the website	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

### 6.2.2 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules and procedures, etc.

#### Response:

The Governing Council with the Management as the Chairman, members formulate the principles, policies, service rules and approve - budget at the beginning of every academic year. The Principal executes the formulated policies through the various Head of the Departments. The IQAC monitors and coordinates the functioning of entire institute and conducts meeting with various heads to ensure the quality in academics.

An Administrative Officer is responsible for providing administrative support to an organization. The service rules are well framed for the appointment of the teaching, non-teaching faculty, administrative and supporting staff members.

The appointment of teaching faculty is based on the norms of the AICTE in terms of the qualifications and

number of positions required. Faculty recruitment is done through advertisement and interview is conducted for shortlisted candidates through the constituted committee. HR policies are disseminated to the faculty members through their appointment order which enables to work as per the norms. The promotion of the faculty is based on the vacancy position as per AICTE norms of the cadre ratio. An internal circular calling for the applicants for promotions is communicated and interview is conducted through the constituted committee.

Service rule book comprising duties & responsibilities, service conditions, performance appraisal, promotional policies, leave rules, code of conduct etc. is well framed and maintained for effective administration by covering all the norms for career advancement. The individual copies of the rule book are distributed to all the faculty members. The well-defined guidelines are given to non-teaching and the administrative staff members to achieve career advancement and promotions.

The annual budget for every forth coming academic year will be submitted by heads of various departments under the capital purchase, consumables, Innovation and research, conferences and extension activities, etc for efficient functioning of the department and the same is submitted to the Principal/ Management approval.

The Principal conducts periodic meetings with Heads of the Departments to discuss on academic and administrative activities of the institution. The minutes of meeting is disseminated to faculty members in the respective department by HoD.

The IQAC plans all the academic and non-academic related activities and it is forwarded to the Principal for approval. Internal examinations and end semester examinations will be conducted as per the Anna University schedule.

The Management and Principal mutually coordinates the operation of Head of the Department, faculty members, students, Institute Industry Interaction Cell (IIC), Exam cell, Entrepreneurship Development Cell (EDC) / e-Cell, NGI New-Gen IEDC, NGI Technology Business Incubator (NGI-TBI), Nehru Corporate Placement and Industrial Relations (NCP&IR), etc.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>
Link to Organogram of the Institution webpage	<a href="#">View Document</a>

### 6.2.3 Implementation of e-governance in areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

**Response:** A. All of the above

File Description	Document
Screen shots of user interfaces	<a href="#">View Document</a>
ERP (Enterprise Resource Planning) Document	<a href="#">View Document</a>
Details of implementation of e-governance in areas of operation, Administration etc	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 6.3 Faculty Empowerment Strategies

### 6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

#### Response:

The teaching and non-teaching staff members have an important role in the growth of the institute and therefore the management/ Institute recognizes their contributions by fulfilling the needs. The welfare measures make employees happy and loyal, thereby boosting their morale towards the work and commitments. The enthusiasm of the employees is raised both physically and mentally. The management/ Institute greatly promote a dynamic and encouraging work atmosphere through various effective welfare schemes which are mentioned below.

- Group Insurance coverage is provided for all the employees.
- Financial support is provided for all faculties for paper presentation in national and international conferences, seminars and workshops etc.
- Incentive is provided for authoring books and publication in refereed journals, patent publications and reputed international conferences.
- Fee concession is provided for the wards of faculty members who are admitted in Nehru Group of Institutions (NGI).
- Ex gratia is given to employees' family in case of unexpected demise.
- Free medical consultation camp is conducted in every semester and concession is provided in dispensary. 24x7 medical care is available along with emergency vehicle service.
- The NGI-Excellence award is bestowed for the teaching in honouring the continuous 10 years of service.
- The best teacher and life time achievement awards are given to the deserved faculties in every year.
- ESI, PF coverage is provided for the employees, who have completed one year of service.
- Medical leave is provided for all faculty members.
- Fee concession is provided for transportation.
- Leave encashment option is provided to the employees.
- Faculty tour is arranged every academic year for staff and their family.
- On festival occasions, an advance amount is granted as financial assistance along with gifts and sweets for all employees.
- Institute offers Institutional on-duty (IOD) for non-teaching faculties when they are subjected to work for the college during working days. On duty (OD) is provided to faculty members for their research work.

- Stress relief programs like yoga, musical night, women's day celebrations, teacher's day celebrations are entertained on special days.

### NGI WELFARE

- Our Founder's day will be celebrated with all the faculties of NGI and gifts will be offered to all housekeepers as a token of love.
- Our management presents compliment to the family functions of teaching and non-teaching faculties like marriage functions, house warming ceremony etc. thereby creating a loyal bonding.
- Nehru Outbound for Leadership Excellence (NOBLE) refreshment training camps are frequently organized to teaching, non-teaching and students to aid an active working environment in college premises.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

### 6.3.2 Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

**Response:** 37.63

#### 6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
57	55	69	98	24

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Details of teachers provided with financial support to attend conference, workshops etc during the last five years	<a href="#">View Document</a>

### 6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

**Response:** 17.6

#### 6.3.3.1 Total number of professional development /administrative training Programmes organized

**by the institution for teaching and non teaching staff year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
33	25	07	13	10

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Reports of the Human Resource Development Centres (UGC ASC or other relevant centres)	<a href="#">View Document</a>
Reports of Academic Staff College or similar centers	<a href="#">View Document</a>
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff	<a href="#">View Document</a>

**6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP) during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course ).****Response:** 75.92**6.3.4.1 Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
102	97	122	152	145

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	<a href="#">View Document</a>
IQAC report summary	<a href="#">View Document</a>
Details of teachers attending professional development programmes during the last five years	<a href="#">View Document</a>

**6.3.5 Institutions Performance Appraisal System for teaching and non-teaching staff**

**Response:**

A system of annual appraisal is followed for all the teaching and non-teaching staff.

The duly filled self-appraisal form is received from all faculty members at the end of every year. The appraisal form includes the teaching, presentation techniques, course delivery, evaluation scheme, the academic commitments and professional development of the faculty members.

A report is generated by the Head of the department in various perspective measures at each semester and the same is forwarded to the Principal for further action. Appraisal interviews are conducted periodically to evaluate the teaching skills and their professional growth. The assessment report and concluding remarks are considered for the promotion, increment, recognition, etc. From the outcomes of the appraisal measures, the competency level of the staff is increased and the academic performance can be improved.

Based on appraisal committee suggestions, improvement programs are arranged to strengthen their performance. The performance appraisal facilitates the promotion/increment process in a transparent manner. This practice helps in maintaining a consistent development of the institute.

The report from the Head of the Department is considered for the performance appraisal of non-teaching staff members.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

## 6.4 Financial Management and Resource Mobilization

### 6.4.1 Institution conducts internal and external financial audits regularly

**Response:**

A well-defined internal audit and external audit mechanism is adopted to inspect the utilization of funds. At the beginning of every financial year, proper utilization of financial resources is planned. The accounts department takes care of the collection of tuition fees, employees salary, tax payment, loan distribution, purchase orders for the laboratory equipment, teaching aids, furniture, facilities, and payment of maintenance bills.

The financial statement is submitted to the Management through Principal for verification and approval. The income and expenditures of the institution are monitored and reviewed by conducting budget meeting. Concern department Heads and budget in-charges will also join hands in maintaining the finance details for every year. The accounts department monitors the expenses as per the budget allocated by the management.

**Internal Audit**

Every financial year, an internal audit process is carried out by the finance committee of the institution headed by finance manager. The audit report is submitted to the Principal after complete verification. The financial statement is fully scrutinized by financial committee. This mode of auditing process is followed and maintained for every financial year. The details of audit reports are also uploaded in the website.

**External Audit**

The college accounts are audited by the professional Chartered Accountant nominated by the management. The auditor approves that all transactions are duly authorized and the audit report is sent to the management for further review. Any disparity, in the process of auditing, would be reviewed instantly along with the necessary documents within the time limits. All these mechanisms expose the transparency in financial matters and adherence to financial discipline at all levels.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

**6.4.2 Funds / Grants received from non-government bodies, individuals, philanthropers during the last five years (not covered in Criterion III)**

**Response:** 0

6.4.2.1 Total Grants received from non-government bodies, individuals, Philanthropers year wise during the last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

File Description	Document
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Annual statements of accounts	<a href="#">View Document</a>

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

**Response:**

The funds are mobilized by the Institute through tuition fees paid by the students admitted as per regulations. The finance committee performs a key role in financial planning and effective budgeting in academics and administration of the institute.

A budget meeting will be convened by the Principal with all the HODs and discuss the requirements for Infrastructure development, Purchase of equipments & software, Purchase of Consumables, extracurricular, co-curricular & Faculty development programmes, conferences, workshops etc. in the annual budget. The final consolidated budget is forwarded to the Management for final approval after Principal's review.

The financial resources received from the Management are allocated and channelized for various departmental activities.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

## 6.5 Internal Quality Assurance System

### 6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

**Response:**

The Internal Quality Assurance Cell was constituted in the year 2014 and plays a crucial role with its initiatives in academic and administrative domains. IQAC ensures quality standards in teaching and learning process, evaluation system and other related activities to develop a quality system for conscious, consistent improvement in the academic and administrative performance of the institution. IQAC meets every quarterly to plan, direct, implement and evaluate the teaching, research, and publication activities in the College. Significant improvements in quality have been made by institutionalizing the following IQAC initiatives:

**Monitoring and mentoring of academic and administrative activities:** Academic inspections are carried out periodically to assess the quality of academics. The inspections involve: Academic Audit, Library Audit, Maintenance Audit and Inventory Audit

**Objectives of Academic Auditing:**

1. To ensure academic accountability
2. To monitor effectiveness of teaching – learning process

**Audit Procedure:**

A meeting with Academic Audit committee members is convened before the start of semester and the strategic points related to teaching-learning process is discussed. The suggestions of the committee will be forwarded to the Principal for approval. The Audit committee will audit the following contents: Syllabus copy, Students Name List, Notes of Lesson, Question Bank, Time Table (Class Time Table and Individual Faculty Time Table), Course Plan and Utilization Chart (applicable for practical courses), Course Pre-analysis, Question paper for Internal Assessment Tests, Sample Answer Scripts, Marks Statements, Remedial Classes and Assignment details. University Exam Question Paper, Question Paper Feedback Form etc.

The auditors are instructed to audit as per the check list and prepare internal Academic audit report. The List of Non – Conformities observed during internal audit in the departments will be circulated to concerned department by IQAC.

Periodic Library Audit is done by IQAC along with Library Advisory Committee to maintain the learning resources. As an administrative activity, IQAC periodically assess the maintenance and inventory records through the concerned committee.

### **Orientation & Pedagogy Course:**

Transition from school to college life is one of the most challenging events in a students' life. When new students enter the institution, they come with diverse thoughts, backgrounds attend bridge course to look beyond classrooms. These classes are conducted during the beginning of the Semester in Physics, Maths, Chemistry and English. Subject lectures, physical activity, creative and performing arts, literary activities, universal human values, etc. are the main focus.

### **Mentor- Mentee:**

Mentor-Mentee relationship is followed in the institution to motivate the students to excel in academics, placements, co-curricular, extra-curricular activities and to handle other stress related issues. The personal, academic and other information about the student are recorded in the Student record maintained by the respective faculty mentor. This is to help and identify the slow learners as well as the advanced learners. Students participating in co-curricular and extra-curricular activities are encouraged to improve their leadership qualities. Parents meeting are conducted regularly by inviting parents to discuss about their wards performance.

<b>File Description</b>	<b>Document</b>
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

**6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities ( For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation**

**quality initiatives )****Response:**

IQAC continuously reviews and takes steps to improve the quality of the teaching-learning process.

The Academic Calendar is prepared in advance, displayed and circulated in the Institute. The Institution is presided and administrated with the objective of moulding true citizens. The Governing Council is chaired by the Management, with the Principal, academicians and Industrial experts as council members. The Governing Council sets well defined goals to reach the required outcome and presents the agenda, milestones, achievements and challenges. The Governing Council suggestions are adopted into the system for the continuous growth and sustained development. These suggestions are implemented at all stages through various decision-making bodies like Department Advisory Committee (DAC) and Internal Quality Assurance Cell (IQAC) that address the academic and non-academic issues to meet the vision of the institution.

IQAC implements the strategic plan and promote collective participation of all faculty, Heads of the Departments, industrial experts, academicians and students. IQAC ensures quality standards in teaching learning process, evaluation system and other related activities to develop a quality system for conscious, consistent improvement in the academic and overall performance of the institution. The academic schedules are framed to facilitate the creation of a learner-centric environment conducive to quality education. The various quality improvement programmes like FDPs, seminars/webinars, workshops, guest lectures, conferences, symposia etc. are initiated by the IQAC. Internal Academic Audit is conducted by IQAC and initiates external audit through experts. IQAC frequently addresses the student's participation through student council in all academic and non-academic activities.

Class Committee meetings are conducted thrice a semester before every internal assessment Test. The meeting is chaired by the Senior Faculty and team of student representatives attends the meeting along with subject handling faculty members. Feedback on the teaching-learning process, syllabus coverage, pedagogy practices and efficacy of teaching-learning process are discussed. Based on the feedback obtained in the class committee meeting, necessary remedial actions are taken.

The use of ICT tools has become an integral part in teaching -learning process. IQAC always encourages teachers to utilize these tools in academic and laboratories. IQAC has arranged workshops to train faculty members to use ICT and upload their e-contents for the benefit of students. The Media Centre acts as the nodal point for creating video lectures to the stakeholders. As per the requisition from the student council, a separate e- learning app is developed, which helps students to get e-content for all the courses. This application acts as a virtual class, to download lecture notes, question bank, previous year question papers and reference books, details of placement, projects, lecture videos, NPTEL videos, etc.

Students' Feedback is collected regularly to enable the faculty to know the effectiveness of their teaching and helps to improve their performance.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

### 6.5.3 Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements
2. Collaborative quality initiatives with other institution(s)
3. Participation in NIRF
4. any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

**Response:** B. 3 of the above

File Description	Document
Upload e-copies of the accreditations and certifications	<a href="#">View Document</a>
Upload details of Quality assurance initiatives of the institution	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>
Paste web link of Annual reports of Institution	<a href="#">View Document</a>

## Criterion 7 - 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 last five years.

**Response:**

The Prevention of Sexual Harassment Cell (POSH) was established in the year of 2014–15. It has started with the main objective of "to create a safe campus for all females and to function without any fear, threat, or anxiety". The cell consists of senior faculty members representing all the departments. Through this cell, the institution ensures its women are treated with dignity and respect.

The Gender Equity Cell acts to ensure the fair treatment of women and men according to their respective needs. This may include equal treatment in terms of rights, benefits, obligations, and opportunities on a non-gender basis. The mail ID for this cell is nietgec@nehrucolleges.com. All the students and employees are given awareness at the beginning of the academic year about the cell.

The cell along with Women Empowerment Cell organized awareness programs, invited talks, seminars, webinars, and women's day celebrations. These activities are conducted to create awareness about sexual harassment, prevention of harassments, stimulate courage to face the situations and handle the issues diplomatically. And also renders all sorts of supports like educating the legal aspects of sexual harassments, counselling, health consultations, and mentorship sessions. The invited resource persons for the events are lawyers, psychologists, doctors, social workers, entrepreneurs, college professors, and members of the police department.

The importance of women is sounded in every event, especially through Women's Day celebrations all year round. Cultural as well as intellectual competitions are conducted to highlight the unique abilities of the participants.

In addition to these activities, the college campus is monitored by CCTV cameras for surveillance of safety. For the safety and security of students, security officer patrol the college and hostel grounds round the clock. Common rooms with suitable furnishings and periodicals are offered. Each department carefully considers the student adoption system. Each faculty mentor is assigned 10-15 students to counsel as their mentees to instil confidence and fearlessness. A lady doctor and a nurse are available in the dispensary, which is functioning effectively for the benefit of the college. Also, an exclusive dispensary is available in the girl's hostel to handle women's issues. A Kid's daycare centre facility is available for the children of our faculty members.

File Description	Document
Link for specific facilities provided for women in terms of: a. Safety and security b. Counselling c. Common Rooms d. Day care center for young children e. Any other relevant information	<a href="#">View Document</a>
Link for annual gender sensitization action plan	<a href="#">View Document</a>

### 7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

1. Solar energy
2. Biogas plant
3. Wheeling to the Grid
4. Sensor-based energy conservation
5. Use of LED bulbs/ power efficient equipment

**Response:** A. 4 or All of the above

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

### 7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- Solid waste management
- Liquid waste management
- Biomedical waste management
- E-waste management
- Waste recycling system
- Hazardous chemicals and radioactive waste management

**Response:**

#### **Solid waste management**

Avoiding unsanitary conditions is a bigger challenge that we face today. Sanitary and tranquil ambiance can keep away from outbreaks of deadly diseases. To make the atmosphere healthy for survival and retaining the natural set up our institution takes necessary endeavors in the campus.

The organization takes sufficient measure to discard the solid waste on day by day basis to keep the environment of the college hygienic and neat. The degradable and non - degradable wastes are segregated

and then disposed in separate dustbins. The degradable wastes like leaves shutting from the trees and plants are transformed into fertilizer by using composite pit, these bio-fertilizers used for the organic foliage inside the campus. The vegetable wastes from hostel mess and canteen are composed and treated in the biogas plant; the produced gas has been utilized for the kitchen utilities. The usage of papers is reduced via e- circulars and digital information. Waste from the departments, office, etc., is collected and given to the peripheral vendors on a timely basis.

By raising awareness about non-degradable waste and its effects on the environment, Non-degradable waste usage is reduced on campus.

### **Liquid waste management**

The appropriate usage of water is an essential necessity in the present world. The scarcity of fresh water is a matter of great concern and proper usage of sole droplet of water is necessary. The wastage of water is monitored and minimized by Water management. Well- constructed drainage system in the outline of closed compilation tanks is accessible in the campus. The waste water from the reverse osmosis (RO) plant is used for gardening purposes.

### **Biomedical waste management**

The dispensary of our college functions efficiently for the benefit and good health of the students and employees. The biomedical waste from the dispensary is very small; it contains only fibre gauze, which is disposed of along with degradable waste.

### **E-waste management**

When e-waste is disposed of in landfills, these chemicals can seep into the ground, contaminating water used for consumption. The existence of the electronic items is extended by performing appropriate maintenance. The e-waste from the campus is accurately collected and given to the external recycling representative.

### **Waste recycling system**

The waste water from the Reverse Osmosis plant is utilized to water the lawns, saplings and trees in the college grounds.

### **Hazardous chemicals and radioactive waste management**

The chemistry lab uses only the diluted acids so no harmful chemical and radioactive materials are used.

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

#### 7.1.4 Water conservation facilities available in the Institution:

1. Rain water harvesting
2. Borewell /Open well recharge
3. Construction of tanks and bunds
4. Waste water recycling
5. Maintenance of water bodies and distribution system in the campus

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

File Description	Document
Geotagged photographs / videos of the facilities	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>
Link for any other relevant information	<a href="#">View Document</a>

#### 7.1.5 Green campus initiatives include:

1. Restricted entry of automobiles
2. Use of Bicycles/ Battery powered vehicles
3. Pedestrian Friendly pathways
4. Ban on use of Plastic
5. Landscaping with trees and plants

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

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

#### 7.1.6 Quality audits on environment and energy are regularly undertaken by the Institution and any

**awards received for such green campus initiatives:**

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

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

<b>File Description</b>	<b>Document</b>
Reports on environment and energy audits submitted by the auditing agency	<a href="#">View Document</a>
Certification by the auditing agency	<a href="#">View Document</a>
Certificates of the awards received	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>
Link for any other relevant information	<a href="#">View Document</a>

**7.1.7 The Institution has disabled-friendly, barrier free environment**

- 1.Built environment with ramps/lifts for easy access to classrooms.**
- 2.Divyangjan friendly washrooms**
- 3.Signage including tactile path, lights, display boards and signposts**
- 4.Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment**
- 5.Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading**

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

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

**7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities**

(within 500 words).

**Response:**

The institution houses NSS/ YRC/ RRC/Rotaract clubs in which student volunteers involved to help the needy people. It helps to cultivate a sense of social responsibility among the students and inspires community work that would also help to inculcate harmony in society. The students are empowered with educational and co-curricular activities to become better citizens and leaders.

Our NSS/RRC/YRC clubs organized AIDS awareness camps, eye checkup camps, blood donation camps, etc., for the nearby village people, along with students and staffs.

Through our NSS unit, we have conducted National Unity Day, Corona Virus Awareness & Prevention Activities, Importance of Wearing Face Masks, Safety Precaution of COVID-19, Independence Day, Anti-Terrorism Day etc., our students donated their blood to the government hospital in Coimbatore for the needy people.

The Rotaract club of our Institution has actively participated and conducted many events like Tree plantation, Muhakavasam uyirkavasam(face mask is the life mask to save life) campaign, Plant Tree chant free, Sigaram thodu (Reach the heights), Feeding street dogs etc., The college has **Nehru Out Bound Leadership and Excellence (NOBLE) training centre** for the faculty and students to inculcate the values of life skills and team building. The students from other colleges and school do visit and get benefited by the training program given for two days with staying facilities.

To make the campus eco-friendly, to make some innovative planting activities, the college maintains ornamental gardens in and around the campus and it also planted more trees and created a “**VANAM**” which means “forest” with many jamoon fruit trees and medicinal trees.

Carrier guidance programs are conducted for the school students and nearly 2000 higher secondary school students in Coimbatore district had attended, their queries are addressed and the young minds are motivated to venture into career of their interest and the jobs which are less explored.

NSS members and student volunteers of our college went to Isha Yoga Centre as “Shivarathiri Volunteers”.

Our institution along with **EDUDHARMA** (a social welfare community) conducted awareness to help students who need financial assistance to continue their studies. Our students and faculties contribute to the same when the help is needed.

The various departments of the college involve themselves and working in collaboration **with various trusts and agencies**. The faculty of Computer Science Engineering department imparts basic computer knowledge to rural school children through **Computer Literacy Awareness Programs**. The rest of the departments involve themselves in APJ vision 2020 club and participated in various programs associated with the welfare of the society. ‘**Amudha Surabhi**’ an initiative of our institution provides three meals a day for needy peoples.

Our Institution had donated necessary materials like face mask, oxy - meter and sanitizers etc., to ESI hospital, Coimbatore. Required relief fund and materials are also provided to the needy people during

Covid' 19.

File Description	Document
Link for supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View Document</a>
Link for any other relevant information	<a href="#">View Document</a>

#### **7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).**

##### **Response:**

The student council and students in our college participate in organising and demonstrating their roles and responsibilities in the smooth operation of cultural and festival activities on campus. As a result of educational and co-curricular activities, students are empowered to become better citizens and leaders of future India.

The institution provides certificates of appreciation for the volunteers from each department involved in the social activities and encourages the effort put in by the volunteers.

The institution had organised appropriate activities to increase awareness about national identities and symbols, as well as the fundamental duties and rights of Indian citizens. It is one's bound duty to stand by the nation in times of natural calamities. Our college took initiatives to reach out to the people affected by the "Gaja storm" in Tamilnadu and also reached the flood-affected areas in Kerala and gave necessary supplies. The college has contributed money towards the relief fund and stood by our nation at the time of its crisis. The NSS students, along with student volunteers, organised a voting awareness camp and a road rally to create awareness about voting among people. The NSS/YRC/RRC unit of our institution organises blood donation camps every year and organises dengue awareness programs.

As per government instruction, plastics are banned. In order to create awareness, our NSS unit and Coimbatore Corporation jointly organised a plastic awareness rally, and also organised eye checkup camps for the benefit of the staff, students, and needy people of the village near to our campus.

Our college took initiatives to create awareness of the coronavirus and gave necessary safety precautions and supplies to the people. The institutions also reached out and supplied food to those affected by the "Corona virus." The college contributed basic needs to the fund and stood by our country during the pandemic.

The Defense career awareness programme was conducted for the students in order to impart the love of mother land and to be ready to serve the nation. The institution celebrates Independence and Republic Day every year, realising the sense of duty towards the country also for national integration and to preserve the rights of each and every individual.

The sapling plantation programs help in encouraging an eco-friendly environment. Along with the APJ Vision 2020 club, NSS students gave more than 500 saplings to the society. As an extended activity, our college students also went for Noyyel River, temple, and school premises cleaning. Apart from these events, the college organised various programmes for the awareness of cleanliness among the residences in the nearby villages.

File Description	Document
Link for details of activities that inculcate values necessary to render students in to responsible citizens	<a href="#">View Document</a>
Link for any other relevant information	<a href="#">View Document</a>

**7.1.10 The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.**

- 1. The Code of Conduct is displayed on the website**
- 2. There is a committee to monitor adherence to the Code of Conduct**
- 3. Institution organizes professional ethics programmes for students, teachers, administrators and other staff**
- 4. Annual awareness programmes on Code of Conduct are organized**

**Response:** A. All of the above

File Description	Document
Details of the monitoring committee composition and minutes of the committee meeting number of programmes organized reports on the various programs etc in support of the claims	<a href="#">View Document</a>
Code of ethics policy document	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

**7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).**

**Response:**

## **Important Day Celebration**

The institution celebrates "National Science Day" every year on February 28th to commemorate the birth anniversary of the eminent scientist Sir C.V. Raman. In this regard, various technical competitions and programmes were conducted for students. Pi Day is celebrated on March 14th every year in remembrance of the great mathematician Ramanujan. "Engineer's Day" is celebrated on September 15th, the birthday of Sir Mokshagundam Vishweshvaraya, whose technological exploration made him a great visionary.

The Green Day is celebrated in the college by planting the sapling in the college. In view of International Yoga day celebration, we have periodically conducted Yoga session for the students to provide the awareness on the importance of yoga; World Book Day was celebrated during the month of April, through which the importance of reading books was emphasized. Library Day was celebrated on August 13th as an awareness day to inculcate reading habits among the students and staff.

Our institute celebrates Republic Day with great ardor, recognising the constitution of the country that came into force on January 26, 1950. On August 15th, we celebrate Independence Day with the view of national integration and preserving the rights of each and every individual.

## **National Festivals**

The cultural, ethnic, and religious diversity in our country has given rise to many festivals that are celebrated with great enthusiasm. The students come together, breaking the boundaries of religion and caste by celebrating festivals like Pongal, Onam, etc. The Ayudha pooja and Lakshmi pooja are celebrated on the campus in a grand manner. The poojas are done in each department, laboratories, and in the college library.

## **Birth/ Death Anniversaries of the Great Indian Personalities**

Great leaders' death and birth anniversaries are celebrated as marks of respect and honour towards their contribution to society. The college conducted a massive plantation campaign on October 15th to mark the birth anniversary of Dr. APJ Abdul Kalam, Former President of India, to encourage and motivate innovations in young minds, and it is celebrated each year to commemorate his vision. "Engineer's Day" is celebrated on September 15th, which is the birthday of Sir Mokshagundam Vishweshvaraya. The institution celebrates these days of national importance to recall the contributions of our great leaders in building our nation.

File Description	Document
Link for Annual report of the celebrations and commemorative events for the last five years	<a href="#">View Document</a>
Link for any other relevant information	<a href="#">View Document</a>
Link for Geotagged photographs of some of the events	<a href="#">View Document</a>

## 7.2 Best Practices

**7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.**

**Response:**

### **BEST PRACTICE – 1**

**1. Title of the Practice: Student Council**

**2. Objective of the Practice:**

**The purpose of the Student Council is to serve as the effective communication medium between the administration and students. Even though there is a fair chance to every student to communicate at any time with the administrative officials, Student Council acts as the interactive body facilitating primary level of communication. Student Council also assists in planning and development of various cultural, sports, social, recreational and other educational interests of students in the institution. The Student council provides scope to contribute in the development of students' leadership skills, program planning and volunteering.**

**3. The Context:**

The Student council was started during the year 2011-12 and continues till date effectively. This was constituted to make our Institution more administrative, participatory feedback system and Student Centric.

- To promote the interests of students among the Institute administration, staff and parents
- To inform students about any subject that concerns them
- To identify and help solve problems encountered by students in the Institute
- To consult students on any issue of importance
- To organize educational and recreational activities for students
- To participate in developing the Institute's educational projects and to promote it to students
- To organize an activity to recognize the efforts of students involved in organizing Institute activities
- To propose activities to the Institute administration that would improve the quality of life in the Institute

- To maintain good relations, out of mutual respect, with the Institute staff (teaching and non-teaching personnel) and parents

#### **4.The Practice:**

- Officially represent all the students in the Institute
- Identify and help solve problems encountered by students in the Institute
- To communicate its opinion to the Institute administration on any subject that concerns students and on which the council wishes to be consulted
- To promote and encourage the involvement of students in organizing Institute activities
- Develop the time managing & planning skills to build self- confidence and improve the Academic performance
- Give voice that enables to participate actively in Academics as well sports and other related activities

#### **5. Evidence of Success:**

- The percentage of students' involvement in curricular, co-curricular and extracurricular activities increased with the motivation from the student council
- The Student council successfully organized functions like Onam, Pongal, College day, Sports day ,Avatar – cultural event etc
- Students council members excelled in academics, leadership skills, program planning through their contribution towards the council activities

#### **6. Problems Encountered and Resources Required:**

- Balancing the academics and leadership pursuits
- Initially students found it difficult to balance academic and Student Council activities
- They have been mentored by the student council mentors to organize, prioritize their responsibilities

### **BEST PRACTICE – 2**

#### **1.Title of the Practice: Nehru Corporate Placements and Industry Relations**

#### **2.Objectives of the Practice:**

- To work as bridging partners in continuous engagement of Industry and Institution.
- Initiate and facilitate the interactions between the industry and academia.
- Identify the gap in training and supported by competent professionals.
- Identify and bring in international linkages at multiple levels of engagement such as education, training and placements.

#### **3.The Context:**

- Nehru Corporate Placements and Industry Relations (NCP&IR) have a team of professionals drawn from various industry backgrounds.

- This team works on building relationships with the industries to enable multiple level engagements such as placement training, alliances, projects etc.,
- Engaged in bringing top brands in manufacturing, information technology, automobiles, banking, financial services, insurance, retail, media ITES etc.,
- It has an Executive director, Head (training and development), Manager (industry relations), Placement officers, and Staff coordinators as its team members.

#### **4.The Practice:**

- NCP&IR continuously interacts with the corporate and students for their final placements.
- Over 50 reputed National and Multinational companies visit our institution to recruit the students year after year.

#### **5. Evidence of Success:**

- On organizing the Industry Exposure programs, students are exposed to industrial expectations to focus on the real time skill set.
- Performance is improved in placement. Increase in participation of students in attending internship
- Industry understands the need of institution and has come forward to offer In plant Training, Industrial Visits/Projects with our continuous efforts.

#### **5. Problems Encountered and resources required:**

- Students' communication is a biggest threat since most of the student come from rural back ground.
- Interface with leading industries is a mighty task.
- Getting Industrial training/ project in software industries is a difficult task.
- The institution is far away from the Industrial corridor.

#### **Overview of Training and Placement Cell:**

- To create synergy and co-operation between education, training, employment and community sectors, the institute has a dedicated Nehru Corporate Placement and Industry Relations (NCP&IR) under the supervision of a Training Head and Placement Director with a dynamic team of faculty members.
- This cell is assisted by Overall Placement Coordinators, Faculty coordinators and student representatives from all the departments. The primary responsibility of NCP&IR is to provide guidance and all the assistance for the students in order to achieve their career goals.
- The NCP&IR takes right steps in identifying the demands of the current industry and prepares our students towards this need.
- Adequate emphasis is given for soft skill development complementing the regular academic programmes.
- Aptitude tests and group discussions are conducted at regular intervals to enable the students to improve their performance in competitive exams.

File Description	Document
Link for Best practices in the Institutional web site	<a href="#">View Document</a>
Link for any other relevant information	<a href="#">View Document</a>

### 7.3 Institutional Distinctiveness

#### 7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

**Response:**

## CONTENT MANAGEMENT SYSTEM

### OBJECTIVE

Knowledge coupled with creativity and innovation is the most powerful tool that our institution creates and contributes to society and mould the students and define higher education's purpose.

Nehru Institute of Engineering and Technology is using Content Management System (CMS) software whose main objective is to create and manage digital content. This software can be accessed from mobile phones, tablets as well as from the personal computers. The students can use it like virtual class, where they can read and download lecture notes, question banks and reference books. Using this software student can also see placement, alumni details and watch final year project videos, lecture videos, NPTEL videos, can also read books from National Digital Library , view papers of science Direct ELSEVIER. The CMS team was formed and allotted the responsibilities to the coordinators. It was a team effort of Nehru Institute of Engineering and Technology.

Our campus has moved to online learning strategies in 2015 well in advance with a lot of effort and challenges for faculties. To implement this strategy we used all possible modes with the infrastructure that exists in our campus. The output of this strategy was Content Management System (CMS PORTAL).

From CMS PORTAL students can access our faculty's lecture notes, PO & PEO's, Power Point presentations, reference books, question papers and faculty videos using their gadgets at any place at any time.

During pandemic situation, Our campus used CMS Portal and ICT tools as a 'bridge' to break the distance and continue the teaching learning process.

Institution provided online training to all our faculties on video conferencing software tools like Google Meet and zoom app. And also we have trained them on Google apps like Forms,Google Docs,Slides and how to manage Google Drive files and folders.

Later on faculties provided online training to their students on video conferencing software tool and Google apps. After the completion of online training our campus started handling online classes to all our

students.

Live streaming of online classes for urban students is not the problem as they are equipped with utilities like fast internet, uninterrupted power supply and electronic devices. Unfortunately, students in rural areas are facing challenges to access online classes conducted by their faculties mainly due to poor data connectivity. To overcome this problem our faculties created Econtent videos. Using this CMS PORTAL APP faculty can share their E - content videos to their students. These are helpful for them to enrich their knowledge.

## ADVANTAGES

- **Workforce Productivity:** This software can help students to view their academic information very quickly anywhere in the globe. There by it increases staffs' ability to perform their jobs faster and more accurately. It also helps to improve the content delivery to the students.
- **Cost-Effective:** Students can view information and data via web-browser and android app rather than maintaining physical documents.
- **Enhance Collaboration:** Information is easily accessible by all authorized users thus teamwork is enabled.

## OVERVIEW

During the process of development of the features of the CMS, suggestions and feedback from the students through the student council members were received. It was suggested that it will be more useful if they were able to access the content from their mobile phones from anywhere, at any time. The CMS committee took up this suggestion very seriously and developed CMS app and it was released on 10th February 2017. At the earlier stages CMS App made available to be accessed by anybody, as a public portfolio, later it was suggested that the CMS portal should include the authentication features and there after students were able to access the CMS App by using their personal mail id's.

And again as per the suggestions from the student council members and faculties on 20th July 2017 the final year project abstract and videos are included in CMS APP. As per their suggestions many training sessions were provided to the CMS coordinators representing each department so as to how to upload the project content in the college cloud space on 24th August 2017. Thus it was able to incorporate the final year project abstract and videos in the CMS APP on 27th November 2017.

On 4th January 2018 the students and Faculty members suggested to include faculty videos in CMS App. Initially embedded videos were collected and uploaded from the aeronautical, mechanical and electrical and electronic engineering departments in the CMS portal.

On 31st October 2018 we requested the Google supporting team to create an email server for students and the students were asked to create official mail ids. The purpose of creating official mail id's for the students is to implement Google Classrooms for all the students and thus enabling the ICT tools throughout the campus. This paved the way to digital campus, stored and accessed via computers, this information may be more specifically referred to as digital content.

On 7th August 2019 the IQAC team suggested to include faculty videos in CMS App for all the remaining departments and it was done successfully with the massive support from the faculty members. At the outset the CMS coordinators created channels for their respective departments and included the videos and they added the faculty videos into their respective you tube channels.

<b>File Description</b>	<b>Document</b>
Link for any other relevant information	<a href="#">View Document</a>
Link for appropriate web in the Institutional website	<a href="#">View Document</a>

## 5. CONCLUSION

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### **Additional Information :**

1. AERO, CSE and MECH programs are accredited by National Board of Accreditation.
2. In-house hostel facility.
3. Wi-Fi enabled campus with uninterrupted internet connectivity.
4. Excellent library facility including digital library.
5. Ragging-free Campus.
6. Student participation in community development programs through NSS.
7. Providing scope for all-round personality development of the student through sports and extracurricular Clubs.
8. Our Institution got accredited 3.5 star rating from MHRD

### **Concluding Remarks :**

As a whole, NIET is a family of aspiring students, supportive parents, dedicated faculty members and visionary management, working together to make a difference in the field of education.