



NATIONAL ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University – Chennai)

K.R.NAGAR, KOVILPATTI – 628 503



STRATEGIC PLAN
(2026-2027)

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PREAMBLE

The National Engineering College Strategic Planning Manual outlines a roadmap for the institution's future, positioning itself as a hub for academic excellence, innovation, and societal impact. In a rapidly evolving educational landscape, this strategic plan is designed to guide our efforts in fostering holistic development, cutting-edge research, and a dynamic learning environment.

After more than four decades of devoted service in the technical education sector, National Engineering College has made a reputation for itself as a provider of excellent professional education. Most of the objectives outlined in the college's first five-year (2020–2024) strategic plan were accomplished through its development and effective implementation. The college planned to update the strategy plan for the next three years (2024–2027) in order to further achieve new heights in this fiercely competitive, dynamic global context and to satisfy the expectations of the stakeholders

A comprehensive SWOT analysis identifies our strengths, acknowledges challenges, explores opportunities, and addresses potential threats. We are committed to leveraging our strengths, navigating challenges proactively, and embracing emerging opportunities in the engineering education landscape. Aligned with our mission, we have set clear and measurable goals, each supported by specific objectives. These include enhancing academic programs, fostering research initiatives, and ensuring a supportive environment for students, faculty, and staff.

Our strategic plan encompasses actionable strategies and initiatives, outlining the steps we will take to achieve our objectives. From academic program enhancements to faculty development and infrastructure upgrades, each initiative is carefully crafted to propel us toward our envisioned future. To ensure accountability and success, objective parameters have been established for each goal. Regular monitoring and evaluation processes will track our progress, allowing for timely adjustments and continuous improvement.

The National Engineering College Strategic Planning Manual serves as a comprehensive guide to navigate the future. By implementing the outlined strategies, we are poised to enhance our reputation, deliver exceptional education, and contribute meaningfully to the engineering discipline and society at large. We invite all stakeholders to actively engage in the realization of this vision, as together, we shape the future of engineering education at National Engineering College.

Vision, Mission & Quality Policy

Institute Vision:

Transforming lives through quality education and research with human values.

Institute Mission:

- To maintain excellent infrastructure and highly qualified and dedicated faculty.
- To provide a conducive environment with an ambience of humanity, wisdom, creativity, and team spirit.
- To promote the values of ethical behavior and commitment to the society.
- To partner with academic, industrial, and government entities to attain collaborative research

Quality Policy:

NEC is committed to the culture of quality through the process of continual monitoring and improvement by developing a student centric approach which provides a conducive teaching-learning and research environment with the ambience of creativity, wisdom and team spirit to orient the talents of students with human values for making a positive contribution to society. This would be achieved by meeting legal, statutory and interested parties' requirements.

Academic Milestones

- 1984 :** NEC was established with 3 Under Graduate Programs
B.E-Mechanical Engineering,
B.E-Electronics & Communication
B.E-Computer Science Engineering
- 1994 :** B.E – Electrical and Electronics Engineering
- 2001 :** B.Tech (Information Technology) & M.E (CSE)
- 2005 :** M.E (High Voltage Engineering)
- 2012 :** B.E (Civil Engineering) & M.E (Embedded System Technologies)
- 2017 :** M.Tech (Information Cyber warfare)
- 2022 :** B.Tech (Artificial Intelligence and Data Science)

SWOC ANALYSIS

Institutional Strength:

1. Visionary and proactive management
2. Merit cum means scholarship schemes
3. Integrated curriculum with experiential learning & grooming soft skills
4. Decentralized administrative setup
5. Well equipped special laboratories
6. Conducive learning environment with clean & green campus
7. Faculty members with high credentials
8. Consistent placement records
9. Transparent, foolproof, and IT-enabled examination system
10. Quality research publications
11. Well established digital library
12. Globally connected strong alumni network
13. Innovation ecosystem for product development
14. Uplifting the standard of living of the rural students
15. Dedicated mentoring system
16. Outreach activities for societal needs

Institutional Weakness:

1. Student exchange program
2. Commercialization of in-house developed products
3. Lacking of student diversity
4. Lack of center of excellence laboratories
5. Preparing the students for higher studies through GATE and foreign universities
6. Conversion of student startups
7. Development of learning repository
8. Faculty retention

Institutional Opportunity

1. Developing MOOC courses
2. Converting the research outcomes towards societal needs
3. Collaboration with R&D institute/industry

4. Make-in India, Digital India, Startup India initiatives
5. More opportunities in the IT sector
6. More company visiting for recruitment

Institutional Challenge

1. Minimum number of Industries in the region
2. Getting admission for the PG programme
3. Internship for students in R&D organizations
4. Faculty graduated from premier Institutions

Institute Achievements and Recognitions

Institute Level:

- University Grant Commission (UGC) granted Autonomy status for our National Engineering College on 2011 and has approved the extension of Autonomous Status till 2033 to 2034.
- UGC recognized our college under 2f in 2010 and 12b in 2015.
- Anna University provided permanent affiliation for 5 UG Programs (Mechanical, CSE, ECE, EEE and IT)
- Anna University recognized our college as research institute.
- 6 UG Programs (Mechanical, CSE, ECE, EEE, IT and Civil) are accredited by NBA (Tier I) by National Board of Accreditation, New Delhi.
- In National Institutional Ranking Framework (NIRF), Our College holds the position of 191st rank in 2021 and 169th in 2022. Now the institute in the position of Band 201-300.
- National Assessment and Accreditation Council (NAAC) evaluated our institution and provided Grade “B++” in 2017 and Grade “A” in 2022.
- DST-FIST Sponsored Institution
- AICTE has approved to establish an Idea lab worth of Rs. 1.1 Crore.

Academic System:

OBJECTIVES OF R2023 INTEGRATED CURRICULUM:

“Learn to design, construct, test, and deploy products, systems, and processes to solve real-life problems, along with interpersonal skills with social values”.

The following objectives of the R2023 curriculum are obtained after obtaining feedback from stakeholders.

1. To establish innovation and entrepreneurship ecosystem through design thinking, problem based and project-based teaching-learning processes.
2. To provide required employable skills through curriculum process and self-learning practice, including soft skills
3. Provision for the fast learner to earn required credits in three years and utilize a complete one year program for gaining industrial experience through industry practice.

4. Provision for lower middle level and slow learners as per their learning capability and achieve their objective.
5. To fulfill the curriculum compliance for attaining the program outcomes

Academic Research:

- 80 faculty members with Ph.D. and 43 faculty members pursuing Ph.D.
- 197 Ph.D's awarded through the research Centre of NEC and 74 Scholars pursuing Ph.D.

Sponsored Research:

- R&D projects sponsored by DST, BRNS-DAE, ISRO, IGCAR, DRDO, AICTE, CSIR, ICMR, CSI and IE (I)

Socially Relevant Research:

- Development of novel anticancer drugs
- Radioactive and heavy metal analysis in ground water
- Artificial intelligence based computer aided detection for medical applications
- Performance enhancement of solar energy applications
- Real time multi human tracking and activity recognized system
- Castalk: A smart cloud platform between normal and deaf people
- Fully automated coconut harvesting machine
- Diagnosis of diabetic retinopathy by feature extraction from retinal images.

Innovative Product Development:

- New Generation Innovation and Entrepreneurship Development Centre sanctioned by Department of Science & Technology, Govt. of India and Entrepreneurship Development Institute of India with a grant of Rs.2.875 cores for establishing a cutting-edge technological product development centre to promote entrepreneurial culture and student startups through commercially viable product development. Eighty-five socio-relevant products were developed over five years.
- 37 patents have been granted so far. During the current academic year, two patents were granted by the IPR. In addition, six patents have been filed and are awaiting for response from the IPR

- K.R. Innovation Centre, a section-8 company is established and got special purpose vehicle status.
- Department of Science and Technology sanctioned Rs.3.92 Crores to setup inclusive Technology Business Incubator on the theme “IoT & Waste to Wealth”
- Technology Business Incubator recognized by Ministry of MSME, New Delhi
- Socially relevant projects worth Rs.68.25 lakhs sanctioned by Ministry of MSME, New Delhi
- Established 'Internet of Everything' lab in K.R.Innovation Centre for pre-incubation & internship activities.
- 3 startups graduated and 17 startups under incubation. Out of 17 startups, 5 startups are recognized by DPIIT
- Ministry of Defense has sponsored Rs.2.06 Crores to 2 startups and Ministry of Railway has sponsored Rs.51 Lakhs for 1 startup
- Totally 108 employment and 152 internship opportunities created.

Training and Placement Centre:

- Every academic year, around 151 companies visited our campus for recruitment as on date.
- Our major recruiters are M/S. Cadence Design Systems, M/S. Mbitwireless Pvt Ltd, M/S. Atoa Payments Ltd, M/S. Infosys Limited, M/S. Mr.Cooper India, M/S Tata Consultancy Services, M/S. Zoho Corporation Pvt Ltd, M/S. Kaar Technologies India Pvt Ltd, M/S. Embedur Systems Pvt Ltd, M/S. Finsurge Pvt Ltd, M/S. Vlinder Labs Pvt Ltd, M/S. Hudsmer Business Solutions, M/S. Virtusa India Pvt Ltd, M/S. Va Tech Wabag Ltd, M/S. Accenture, M/S. Econ Systems India Pvt Ltd, M/S. Mistral Solutions Pvt Ltd, M/S. Southern Petrochemical Industries Corporation Ltd, M/S. Tessolve Semiconductor Pvt Ltd, M/S. Data Patterns (India) Ltd.
- During the academic year 2025-26, 475 students have been placed from the current final year batch with 625 offers in reputed companies through campus recruitment. The highest salary of 17 LPA and median salary of 5 LPA.
- Almost 85% of the students have got placement in well reputed core and IT industries

Industry Engagement @ NEC:

- Adjunct faculty from Industry
- NEC-MISTRAL Technobation Centre imparts skill based training, offers internship to students, supports in product design and development
- STE Laboratory @ ECE technically supported by Tessolve Semiconductor Pvt Ltd, Bengaluru provides skill based training in VLSI domain
- NEC - Vlinder Labs Technobation Centre bridge the gap between Institution and Industry. It also, imparts skill based training for the students and to do R&D, consultancy work.
- AR&VR Consultancy Work for TryCAE Industrial Engineering Ltd, Trichy at IP Research Centre
- Vajra Global Ltd, Chennai for Web Development Initiatives
- Value added courses on Industry-oriented emerging technologies
- Partnered with Infosys for up skilling Students and Faculty
- CDIO Centre for Product Development
- Coderzbot innovations, Chennai - Consultancy- Development of Web applications and Mobile applications.

Alumni:

- Mentoring students for their upliftment
- Financially assisting in innovative projects
- Conducting seminar on latest trends in the industry
- Organizing software contests
- Being an eye-opener for the professional
- NEC Alumni Chapters in Chennai, Bangalore, Dubai & USA.

Transport:

- Transport facilities from Kovilpatti, Thoothukudi, Vilathikulam, Tirunelveli, Virudhunagar, Sattur, Sivakasi, Sankarankovil, Rajapalayam and Aruppukottai

Hostel:

- Excellent modernized amenities for both gents & ladies Hostel.

Internet & Wi-Fi:

- 24 X 7 Campus wide Wi-Fi connectivity.

Sports Infrastructure:

- Well-equipped sports facilities.

Welfare Schemes:

- Students, Parents and Staff Insured Under Welfare Insurance Policies
- ESI, EPF and Gratuity benefits for Staff members

Institute Objectives

- To strive for quality teaching, research and extension services to achieve overall development of students and society
- To assure the career settlement with excellent salary and companies
- To promote competitive merit and excellence as the sole guiding criterion in overall development of students
- To provide enhanced support for student participation in National/International technical competitions including credit for learning by doing
- To facilitate the internship opportunity for students in industry for longer duration
- To give opportunities for students to participate in industrial and societal projects and decimating the outcome of project work with publications in International Journals/Conferences
- To address the need based societal and research problems through curriculum development
- To forecast industry requirements and societal educational aspirations for initiation of new specialized programs and arrangements of skill development programs
- To endow ecosystem of innovation and entrepreneurial culture among faculty and student community
- To focus approach on technology patenting and commercialization
- To increase publications, research projects and consultancy from industry, government research organizations, centers of excellence
- To develop appropriate arrangements for international relations – to coordinate the activities with international universities
- To enhance facilities for students with ultramodern, spacious, well ventilated classrooms, laboratories, sports and recreation
- To facilitate seamless coordination between stakeholders and Institute for continued learning and career improvement, curriculum development, student's placement and internship, enhancing the innovation ecosystem at the institute.
- To develop strong relations with industries, institutes and society

Timed Vision: (To be achieved in the academic year 2026- 2027)

NEC will be regarded as one of the top 25 Engineering Institutions in Tamil Nadu

OBJECTIVES for NEC:

STUDENTS:

Sl. No	Objective parameter		Target (2024-25)	Target (2025-26)	Target (2026-27)	UOM	Responsibility
ADMISSION							
1.	Strength		100	100	100	%	Principal & HODs
	a) UG Admission (TNEA counseling)						
	Rank 1 – 25,000		25	27.5	30	%	Principal & HODs
	Rank 25,001 – 75,000		70	67.5	65	%	Principal & HODs
	Rank 75,001 – 1,50,000		5	5	5	%	Principal & HODs
	b) Cut off details (All Seats)						
	Average		140	145	150	Cut off Marks	Principal & HODs
2.	PG Admission		100	100	100	%	Principal & HODs
3.	Regional distribution						
	Southern Tamilnadu		80	75	70	%	Principal & HODs
	Northern Tamilnadu		15	20	25	%	Principal & HODs
	Other states		5	5	5	%	Principal & HODs
4.	Gender distribution						
	Male students		50	50	50	%	Principal & HODs
	Female students		50	50	50	%	Principal & HODs
ACADEMIC ACHIEVEMENTS							
1.	Pass percentage						
	Without backlog	I year	80	82.5	85	%	HODs, Tutors & Course instructors
		II year	75	77.5	80	%	HODs, Tutors & Course instructors
		III year	75	77.5	80	%	HODs, Tutors & Course instructors
		IV year	75	77.5	80	%	HODs, Tutors & Course instructors
	With backlog	I year	80	82.5	85	%	HODs, Tutors & Course instructors

Sl. No	Objective parameter		Target (2024-25)	Target (2025-26)	Target (2026-27)	UOM	Responsibility
		II year	85	87.5	90	%	HODs, Tutors & Course instructors
		III year	90	92.5	95	%	HODs, Tutors & Course instructors
		IV year	95	97.5	100	%	HODs, Tutors & Course instructors
2.	Grades (Average of I, II, III & IV year students)						
	CGPA - above 8.5		10	12.5	15	%	HODs, Tutors & Course instructors
	CGPA 7.5 -8.5		65	67.5	60	%	HODs, Tutors & Course instructors
	CGPA 6.5 – 7.5		25	25	25	%	HODs, Tutors & Course instructors
STUDENTS POTENTIAL TRANSFORMATION							
1.	Achievements and participation in National/International events(Premier Institutions, Industries&Organizations)						
	Students participation		100	100	100	%	HODs & Tutors
	Students achievements		10	10	10	%	HODs & Tutors
	Participation in other states/ other countries (Online mode)		10	10	10	%	HODs & Tutors
	Participation in other states/ other countries (Physical mode)		5	5	5	%	HODs & Tutors
	Technical contests like Hackathons		65	70	75	%	HODs & Tutors
	Achievements in contests like Hackathons		1	3	5	%	HODs & Tutors
2.	Students’ publications						
	SCI indexed journal		6	8	10	No.	HODs, Project Guide & Tutors
	Scopus indexed publications		140	160	180	No.	HODs, Project Guide & Tutors
3.	Funded projects						
	No. of projects		10	15	20	No.	HODs, Project Guide & Tutors
	Worth of project		10 lakhs (5 L internal +5 L external)	20 lakhs (10 L internal +10 L external)	30 lakhs (10 L internal +20 L external)	Rupee s	HODs, Project Guide & Tutors

Sl. No	Objective parameter	Target (2024-25)	Target (2025-26)	Target (2026-27)	UOM	Responsibility
4.	Quality of internships					
a.	Public sector undertakings& MNCs	50	50	50	%	HODs & Tutors
	Other private industries	50	50	50	%	HODs & Tutors
b.	Internships leading to placement (Conversion)	5	7.5	10	%	HODs, DPC & Tutors
5.	Fellowship at NITs, IITs& IISC/Central universities & research institution	3	5	7	No.	HODs & Tutors
6.	Achievements- Extracurricular Activities from govt/ recognized bodies - 1/club	13	13	13	No.	Dean (SA&IR)& Club Incharges
7.	Achievements- Cocurricular Activities from govt/ recognized bodies - 1/club	17	17	17	No.	Dean (SA&IR)& Chapters' Incharges
8.	Number of activities conducted for promotion of universal values(Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties	30	30	30	No.	Dean (SA&IR)& Club/Chapters Incharges)
9..	National festivals and birth / deathanniversaries of the great Indian personalities	5	5	5	No.	Dean (SA&IR)& Club/Chapters Incharges
10.	Sports events organized (District/ Zonal/ National Level)	5/5/5	5/5/5	5/5/5	No.	Dean (SA&IR)&Physical Director
11.	No of medals won (District/ Zonal/ National Level) (team considered as one)	5/5/5	5/5/5	5/5/5	No.	Dean (SA&IR)&Physical Director, Physical Director
CAREER SETTLEMENT						
1.	Placement					
	Strength	85	87.5	90	%	HODs, DPC, Tutors & Dean(TPC)
2.	Salary Level					

Sl. No	Objective parameter	Target (2024-25)	Target (2025-26)	Target (2026-27)	UOM	Responsibility
	Median Salary	4 lakhs	4.5 lakhs	5 lakhs	Rupees	HODs, DPC, Tutors & Dean(TPC)
	Above 20 lakhs (SD)	1	2	3	Nos.	
	15-20 lakhs(D1)	2	4	6	Nos.	
	10-15 Lakhs(D2)	3	4	5	%	
	7-10 lakhs	25	27.5	30	%	
	5-7 lakhs	30	32.5	35	%	
	3.6-5 lakhs	20	17.5	15	%	
	<3.6 Lakhs	7	6	5	%	
3.	Competitive examination					
	CAT, MAT, GATE, TOEFL, IELTS etc.	5	7.5	10	%	HODs,Tutors, & PEDC
4.	Public sector undertakings	0.333	0.667	1	%	HODs,Tutors, & PEDC
5.	Higher Education	3	4	5	%	HODs,Tutors, & PEDC
	Foreign Universities	1	1	1	%	HODs,Tutors, & PEDC
	IITs, NITs & IIMs	1	1	2	%	HODs,Tutors, & PEDC
	Govt./Govt. aided institutions/ Reputed institutions	1	2	2	%	HODs,Tutors, & PEDC
6.	Entrepreneurship (only Techno commercial)	0.333	0.667	1	%	HODs & Tutors, ED cell

FACULTY MEMBERS:

Sl. No	Objective parameter	Target (2024-25)	Target (2025-26)	Target (2026-27)	UOM	Responsibility
Strengthening Knowledge						
1.	Online Courses (like NPTEL and other MOOC offered by premier institutions) - upto AP(SG)	100	100	100	%	HODs
2.	Attending FDP programs	100	100	100	%	HODs
3.	Industry Know how programs (Ap with more than 2 years exp, AP(SG) &Asso. Prof.)	50	50	50	%	HODs& Dean (TPC)
4.	R&D Organization/Reputed Institution (AP(SG) , Asso. Prof., Prof.)	50	50	50	%	HODs
5.	Fellowship (AP pursuing PhD, AP with PhD)	50	50	50	%	HODs, Dean (R&D)
6.	Training programs organized					
	With funding	6	8	10	No.	Principal & HODs
	Self-supporting	6	8	10	No.	Principal & HODs

Sl. No	Objective parameter	Target (2024-25)	Target (2025-26)	Target (2026-27)	UOM	Responsibility
7.	Teaching Learning Process					
	E-content development	5	10	15	No.	HODs
	Development of Learning repository	6	8	10	No.	HODs
	Innovative TLP	10	20	30	No.	HODs
8.	Value added courses	20	30	40	No.	HODs
Research & Development activities						
1.	PhD holders	60	65	70	%	HODs, Dean (R&D)
2.	Supervisorship (All PhD Holders)	100	100	100	%	HODs, Dean (R&D)
3.	Publications in SCI journals	150	150	150	%	HODs, Dean (R&D)
4.	Full time scholars	10	15	20	No.	HODs, Dean (R&D)
5.	No. of patents filed	10	15	20	No.	HODs, ED cell, IPR cell
6.	Consultancy	10	12	15	No.	HODs
7.	Worth of consultancy	15 lakhs	20 lakhs	25 lakhs	Rupees	HODs
8.	No. of project proposals	60	70	80	No.	HODs, Dean (R&D)
9.	Worth of on-going projects	80 lakhs	90 lakhs	1 crore	Rupees	HODs, Dean (R&D)
10.	No. of. Special Lab/ Centre of Excellence/research facility as individual or as member of team.	3	5	7	No.	HODs
11.	No. of functional MoUs	10	15	20	No.	HODs
	No. of Activities through MoUs	20	30	40	No.	HODs
12.	No. of Multi disciplinary activities	20	30	40	No.	Principal &HODs
14.	H-Index	70	73	75	-	Principal, HODs, Dean (R&D)
OUTREACH PROGRAMMES						
1.	Delivering expert lecture and acting as session chair/judges/speaker in reputed organizations					
	International Events held at foreign countries	3	5	07	No.	Principal, HODs
	National Events	30	40	50	No.	HODs
	International collaboration (Publication, book, Project submission, setting up of labs, technobation, etc.)	10	10	10	No.	HODs
	Inter-institutional collaboration (Publication, book, Project submission, setting up of labs, technobation, etc.)	10	10	10	No.	HODs
	Awards/ Recognitions received from Government/Recognized body	7	7	7	No.	HODs
	Books/ Book chapter authored	7	7	7	No.	HODs
	Foreign country visited for collaborative work	3	5	7	No.	Principal, HODs
	Social Related activities	5	10	15	No.	Principal, HODs

Sl. No	Objective parameter	Target (2024-25)	Target (2025-26)	Target (2026-27)	UOM	Responsibility
	Training to Industry personnel	3	5	7	No.	Principal, HODs
Alumni Association						
1.	Alumni meets	2	2	2	No.	Alumni Association
2.	Fund raising	10 lakhs	12.5 lakhs	15 lakhs	Rupees	Alumni Association

III) Institutional Recognition:

Sl.No.	Recognition parameter	Target (2024-25)	Target (2025-26)	Target (2026-27)	UOM	Responsibility
1.	NIRF	Within 200	Within 200	Within 150	Rank	Principal & HODs
2.	NIRF-Innovation	Within 150	Within 100	Within 50	Grade	Principal & HODs
3.	NBA	-	-	Full	Years	Principal & HODs
4.	NAAC	-	-	A++	Grade	Principal & HODs
5.	AICTE-CII Survey (Dept. Level)	Platinum	Platinum	Platinum	Category	Principal & HODs

*** UOM: Unit of Measure**

Strategic Planning

National Engineering College conducts a structured strategic planning process that is reviewed and updated every three years to stay aligned with evolving academic and institutional goals. From the year 2018-2019, we are framing the short-term goals as NEC objectives for every three year. This periodic revision of the timed vision helps translate into relevant institutional goals with actionable plans. The timed vision provides a clear direction for the institution and helps align academic, research, and innovation activities toward measurable goals. It enables strategic planning, effective resource allocation, and continuous performance monitoring. By setting a defined timeframe, the institution can track progress, benchmark achievements, and remain competitive in the evolving higher-education landscape.

Timed Vision: (To be achieved in the academic year 2026- 2027)

NEC will be regarded as one of the top 25 Engineering Institutions in Tamil Nadu

Framework for Achieving the Timed Vision:

- To achieve the timed vision, we have constructed a framework that presents a systematic and hierarchical approach to institutional development with clearly defined **goals** for the **institute** for every three years.
- These goals are translated into actionable outcomes, ensuring uniformity in direction and purpose.
- The institute goals are then allotted to department based on the strength and expertise to encourage coordinated growth and continuous improvement across the institution.
- Based on departmental goals, **targets are assigned to individual faculty members**, focusing on teaching, research, and professional contributions.
- To support this, a structured process of **competency modeling** is carried out to identify the skills and capabilities required to achieve these targets.
- This is followed by a detailed **competency level and gap analysis**, which helps in identifying areas for improvement.
- Accordingly, **Faculty Development Programs (FDPs)** are planned and conducted in core and emerging research areas to enhance faculty competence and productivity.
- Simultaneously, **infrastructure facilities** aligned with academic and research needs is also fulfilled

- The effectiveness of both faculty performance and infrastructure utilization is regularly monitored through structured **assessment mechanisms**.
- Details of the Strategic Planning and Quality Assurance Framework are given in figure 1.

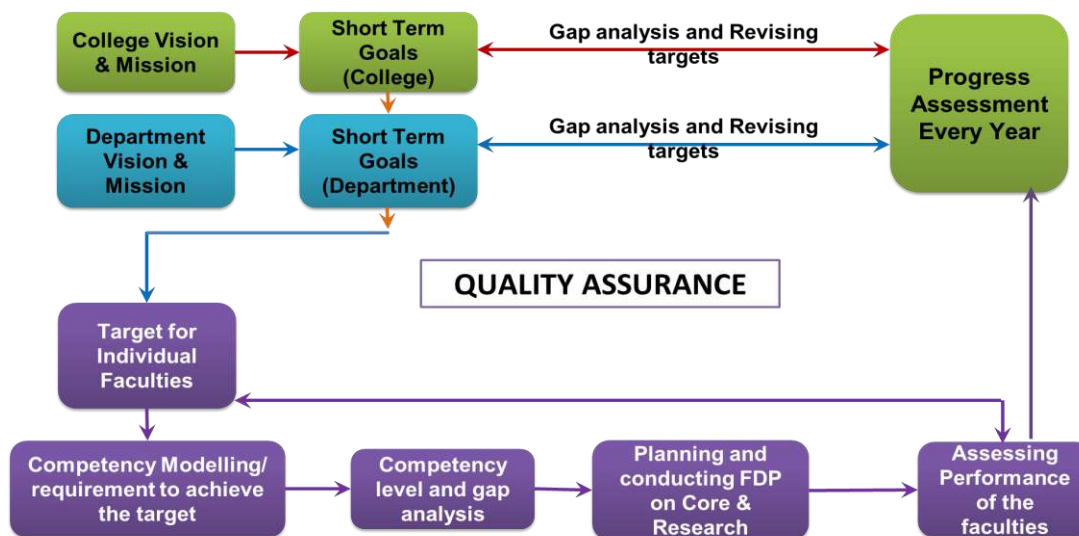


Figure 1 Strategic Planning and Quality Assurance Framework

Framework for Institutional Quality Enhancement:

- To achieve this, IQAC has defined key objectives focusing on the continuous improvement of students, faculty members, and institutional recognition.
- For **students**, the framework emphasizes the development of academic excellence, skill enhancement, career settlement, and active participation in co-curricular and extracurricular activities. It also focuses on improving research aptitude, innovation, and industry-oriented learning to ensure holistic development.
- For **faculty members**, the objectives include strengthening teaching-learning practices, enhancing research contributions, increasing publications in reputed journals, and encouraging participation in professional development programs. Faculties are also motivated to adopt innovative pedagogical methods and integrate modern technologies into teaching.
- At the **institutional level**, the framework aims to improve overall recognition by enhancing accreditation status, strengthening industry collaborations, promoting research and consultancy activities, and ensuring adherence to quality standards set by accrediting bodies.

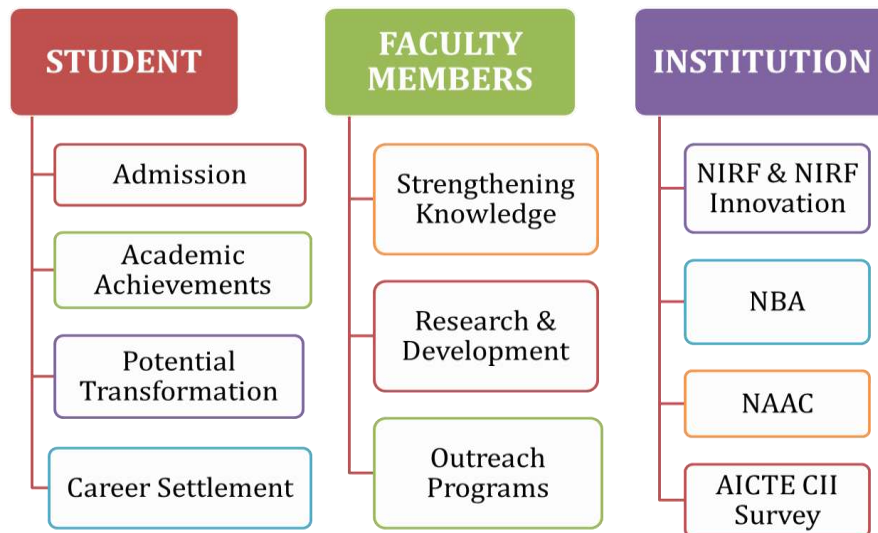


Figure 2. Objective parameters

Faculty Performance Appraisal System:

- We have a well-structured Faculty Performance Appraisal Portal comprising separate appraisal forms for six faculty cadres, namely Assistant Professor (less than two years of experience), Assistant Professor (more than two years of experience), Assistant Professor with Ph.D., Assistant Professor (Senior Grade), Associate Professor, and Professor.
- The appraisal forms for different faculty cadres are designed **based on their roles, experience, academic responsibilities, research expectations, and level of leadership** in teaching, research, innovation, and institutional development.
- All faculty members regularly record their accomplishments against the allotted targets. These achievements are continuously monitored and periodically reviewed.
- Performance indicators related to teaching effectiveness, research output, professional development, student mentoring, and institutional contributions are reviewed periodically.
- At the end of the appraisal cycle, gaps between expected and achieved performance are identified through review meetings and appraisal reports. Based on the identified gaps, suitable corrective and developmental actions such as **faculty development programmes, training workshops, mentoring, and research support, and performance improvement plans** are initiated. The progress after intervention is monitored in subsequent review cycles to ensure continuous improvement.

- At the end of each academic year, faculty performance is appraised, and appropriate actions are taken based on the appraisal outcomes.

Department Appraisal System:

- We have also a well-structured **Department Appraisal Portal** through which departments regularly record their achievements against the assigned goals. The progress is continuously monitored and periodically reviewed, and necessary actions are taken to ensure alignment with institutional objectives and continuous improvement.
- At the end of each academic year, institutional achievements are consolidated from departmental attainments. The overall institutional performance is then reviewed and analyzed for continuous improvement.

Strategic Planning

Timed Vision: (To be achieved in the academic year 2026- 2027)

NEC will be regarded as one of the top 25 Engineering Institutions in Tamil Nadu

Strategic Planning:

A. STUDENTS:

Sl.No.	Objectives	Target	UOM	Present Status	Strategic Planning
ADMISSION					
1.	Strength	100	%	Good Progression	✓ To create a positive perception and brand image of our institute among the students and parent’s community. ✓ Make use of Alumni testimonials to advertise about our college, organizing events and reunions for alumnus to attract attention and build trust among students. and create a good reach in the local mass media. ✓ Creating professional pages in social media for college and all departments and club to disseminate about the activities and achievements of every section. ✓ Showcasing the talented students and their achievements through social media. ✓ make public our promotional activities as advertisements in social media ✓ Producing creative video content for our college stating Infrastructure & Amenities, Courses & Curriculum, Events and uploading in you tube. ✓ Programs have to be organized for the school
	a) UG Admission				
	Round 1	65	%		
	Round 2	35	%		
	Round 3	0	%		
	b) Cut off details (All Seats)				
	Average (Counselling)	180	Cutoff marks		
	Average(Total Strength)	170			

					students during summer vacation. ✓ Placement achievements along with salary details have to be advertised. ✓ Conducting call letter day for placed students ✓ Conducting more number of Science and Technology exhibitions. ✓ Creating NEC App to inform about career opportunities, internship, events etc. to all students.
2.	PG Admission	100	%	Needs Improvement	✓To create a positive perception and brand image of our college among publics ✓To disseminate the achievements of the PG students. ✓Fees concession have to advertised through social media
3.	Regional distribution				
	Kovilpatti Educational District	50	%	Good admission from south side. Need Improvement in Northern and other states	✓Understand the regional demographics and demand for engineering education. ✓Establish partnerships with schools, colleges, and educational institutions to create a pipeline for potential engineering students.
	Districts Around KVP	50	%		
4.	Gender distribution				
	Male students	50	%	Needs improvement in Girls students admission	✓Develop outreach programs to schools and communities that specifically target girls and young women, highlighting the opportunities and benefits of pursuing engineering. ✓Partner with organizations that focus on promoting STEM education for girls. ✓Implement mentoring programs where current female engineering students or professionals' mentor and guide potential applicants ✓
	Female students	50	%		

ACADEMIC ACHIEVEMENTS						
1.	Pass percentage					
(a)	Without backlog	I year	90	%	Needs Improvement	✓ Resetting the educational processes targeting the different level of students. ✓ Continuous monitoring of students’ progress through tutor system. ✓ Flexible TLP may be offered according to the level of students ✓ Through continuous assessment, to prepare all students comfortably to get pass ✓ Bright students are allowed to engage for higher level activities ✓ Motivating for peer group learning in hostels.
		II year	87.5	%		
		III year	85	%		
		IV year	85	%		
(b)	With backlog	I year	90	%	Needs Improvement	✓ Identifying slow learners’ students from tutor wards and giving special care to the students with the help of tutors and subject handling faculties the arrear should be clear within the next semester. ✓ Guidance and counseling have to be given through counselors.
		II year	92.5	%		
		III year	100	%		
		IV year	100	%		
2.	Grades(Average of I, II, III & IV year students)					
	CGPA - above 8.5		15	%	Needs Improvement	✓ Through concept based, project based learning makes the bright students to score high CGPA ✓ Simulation practices may be given for the students for better understanding of the courses using MATLAB, PSIM, etc. ✓ Providing guest lectures and interaction by industrial experts for better understanding of expectation of industry
	CGPA 7.5 -8.5		70	%		
	CGPA 6.5 – 7.5		15	%		
STUDENTS POTENTIAL TRANSFORMATION						
1.	Achievements and participation in National/International events(Premier Institutions, Industries&Organizations)					
	Memberships in Professional Societies		100	%	Good Students’ participation.	✓ Encourage all students to enroll in at least one professional society such as IEEE, ISTE, IEL, IETE, SAE, CSI, etc
	Students participation		100	%		

	I Year	A. As A Learner	50	%	Needs improvement in Achievements	✓ Prepare a year-wise participation plan ensuring every student attends technical programmes as a learner ✓ Encourage participation in technical competitions, quizzes, paper presentations, coding contests and innovation challenges to enhance confidence ✓ Motivating the students to participate in technical symposiums, workshops, project expo (outside NEC) ✓ Identifying bright students and provide them better platform for showcasing their ideas and talents through tutors ✓ Create awareness and motivate through extra and co –curricular forum ✓ To conduct program at department level and college level to train the students ✓ Disseminate the event brochure to the students through social media ✓ Motivating the students to solve industrial problems ✓ Motivating the students for summer and winter fellowships in reputed institutions. ✓ Identifying bright students and make them to present their project work in international conference and internship (other states) ✓ Encouraging the students to present their project works through supervisor in international conferences and project expo. ✓ Making the students to learn programming languages like JavaScript, Python, Java, C/C++ PHP, Objective-C, C# or software design, to push their skills to the next level. ✓ Students can be motivated to participate in
		b. As a Competitor	50	%		
	II Year	A. As A Learner	30	%		
		b. As a Competitor	70	%		
	III Year	A. As A Learner	10	%		
		b. As a Competitor	90	%		
	Students achievements		20	%		
	Participation in Other States/ Other Countries (Online mode)		20	%		
	Participation in Other States/ Other Countries (Physical mode)		15	%		
	Technical Contests Like Hackathons/Ideathons		100	%		
	Achievements in Contests Like Hackathons (leading to Placement/Internship)		20	%		
	a. Shortlisted/Qualified		50	%		
	b. Finalist		125	No.		
	c.Runnerup		60	No.		
	d. winner		20	No.		

					hackathons through tutors. ✓ Making faculty members equipped for hackathons to improve the knowledge level of students
2.	Students' publications				
	SCI Indexed Journal	7	No.	Very few publications	✓ Some of the quality UG projects and all PG students research work should be published into SCI indexed journal ✓ By offering topics from faculty members research area during second year end and complete the project by end of third year and assure publication in final year in Scopus Indexed Journal.
	Patents Filed	180	No.	Needs Improvement	
	Scopus Indexed Publications	180	No.		
	Journals, Magazines, Newsletters etc	24	No.		
3.	Funded projects				
	No. of projects	20	No.	Needs Improvement	✓ Regional researches are to be enhanced from project funding agencies and alumni association. ✓ Encourage Institution-Industry collaborative projects for rural development. ✓ Converting the student's innovative ideas to funded projects, NEWGEN IEDC, MSME, TNSCST, IEI, etc.
	Worth of project	10 lakhs (5 L internal + 5 L external)	Lakhs		
4.	Quality of internships				
	Public Sector undertakings &MNCs	45	%	Quality of Internship needs to be improved Very few	✓ Identifying and preparing the list of companies ✓ Encouraging the students to do industry-oriented projects and summer internship at reputed institutions. ✓ Communication regardinginternshipavailability has to be established through concern in-charge. ✓ Internship through MoU need to be established & motivating the students to participate in AICTE Internshala.
	Other Private Industries	45	%		
	Fellowship at NITs, IITs & IISc/Central universities &research institution	10	%	Not existing	✓ Informing the students about the fellowship program organized by reputed institutions ✓ Facilitating the students to attend the fellowship

CAREER SETTLEMENT					
1.	Placement				
	Through Placement Cell	90	%	Good progression	✓ Getting career options in II year itself and motivating them towards their objectives ✓ Identifying the career needs and coordinating with companies to learn about their requirements and recruitment procedures ✓ Making the academic planning based on career option and progress monitor by mentors ✓ Gathering information about job fairs and all relevant recruitment advertisements. ✓ Informing the students about the available job opportunities in government sectors and off campus drives. ✓ Organizing periodic meetings with Human Resources Department of the companies ✓ Encouraging more Campus Connect Programs ✓ Exposing the students to role model characters by organizing guest lectures and interactive sessions with alumni and industrial experts. ✓ Utilizing Alumni Hub for in-plant training, internship and industrial visits ✓ Designing curriculum to satisfy the placement requirements ✓ Developing technology park in collaboration with industry and incubation center to enrich the employability skills ✓ Motivating the students to do industrial project for career development ✓ Core training has been given to the students before placement drive by our faculties & Special care has been taken by the tutors

2.	Salary Level				
	Median Salary	5	Lakhs	Needs Improvement	✓ Identifying the creamy layer students from first year. Free them from regular academic activities and motivating them for 10L package ✓ Average level students to be motivated towards >5L package ✓ To make below average students to get offer in 3L package salary. ✓ To provide offer for arrear students in 2L package salary
	Above 20 lakhs (SD)	7	Nos.		
	15-20 lakhs(D1)	8	Nos.		
	10-15 Lakhs(D2)	20	Nos.		
	7-10 lakhs	20	%		
	5-7 lakhs	30	%		
	3.6-5 lakhs	30	%		
	< 3.6 Lakhs	7	%		
	Bring new companies offering high salary packages	40	Nos.		
3.	Higher Level Placement				
	4.3.1 Conversion from Internships	75	Nos.	Needs Improvement	✓ Identify high-performing students before internship and provide company-specific technical training. ✓ Conduct pre-internship orientation on workplace ethics, communication and professional behaviour. ✓ Strengthen internship opportunities through active MoUs with reputed industries and MNCs. ✓ Obtain periodic performance feedback from industry mentors and provide corrective guidance. ✓ Encourage students to undertake industry-defined projects during internships.
	4.3.2 Winning contest/Hackathon	30	Nos.	Needs Improvement	✓ Conduct monthly internal hackathons and ideation challenges. ✓ Provide mentorship from faculty, alumni and industry experts. ✓ Offer financial support for registration, travel and prototype development. ✓ Create a repository of previous hackathon problem statements and winning solutions.

					✓ Encourage multidisciplinary teams to participate in Smart India Hackathon, Toycathon, IDEATHON and industry-sponsored competitions.
	4.3.3 Referral Process Through Alumni	7	Nos.	Needs Improvement	✓ Create a centralized Alumni Referral Portal for internships and placements. ✓ Update the alumni database with current employment details and hiring opportunities. ✓ Appoint departmental Alumni Placement Coordinators. ✓ Organize quarterly Alumni Hiring Drives and referral campaigns. ✓ Encourage alumni to recommend eligible students within their organizations.
	4.3.4 Showcasing through Social Media	7	Nos.	Needs Improvement	✓ Social media teams to publish student achievements regularly. ✓ Showcase placements, internships, hackathon victories, certifications and innovations through LinkedIn, Instagram, Facebook and YouTube. ✓ Publish student success stories and alumni testimonials. ✓ Release short videos on industrial visits, internships and campus recruitment success. ✓ Highlight company-wise placement statistics and salary packages. ✓ Maintain consistent branding across all official platforms.
	4.3.5 Through Foreign Languages Studies	9	Nos.	Needs Improvement	✓ Collaborate with certified language training organizations. ✓ Integrate foreign language learning with placement preparation for multinational companies ✓ Conduct awareness programmes on overseas employment opportunities. ✓ Encourage students to complete internationally

					recognized language certification examinations.
4.	Competitive examinations				
	GATE Exam(only Third year students) obtained 30 score	5	%	Needs Improvement	✓ Higher Studies option students will be identified from first year and motivated towards all exams (GATE, CAT, MAT etc.,) ✓ Train the students to face competitive exams like GATE /TANCET/GRE/GMAT/CAT etc.,
	TOEFL,GRE, GMAT, IELTS, CAT, MAT, etc.	5	%		
5.	Higher Education				
	Higher Education	5	%	Needs Improvement	✓ Encouraging the students to pursue higher education in leading institutions world wide. ✓ Provide career counseling and mentoring for postgraduate studies. ✓ Organize interactions with alumni pursuing higher education. ✓ Guide students on scholarships, fellowships and admission procedures.
	Foreign Universities	9	Nos.		
	IITs, IISc & NITs	9	Nos.		
	Govt./Govt. aided institutions/ Reputed institutions	9	Nos.		
6	Entrepreneurship	5	%	Very few	✓ To complete design thinking course in first year and to choose product development lab course earlier ✓ Students will be involved in product development activity from III year onwards ✓ Providing resources and arranging activities through Entrepreneurship cell to facilitate the planning process to become entrepreneurs ✓ Startup activities are encouraged for faculty members
7.	Foreign and Hindi Languages				
	Studying Foreign Languages(II and III Year - Minimum Level Certificate)	5	%		✓ Offer certification programmes in internationally recognized foreign languages. ✓ Collaborate with certified language institutes for training. ✓ .Highlight career opportunities in multinational companies. ✓ Recognize students completing language

					certification successfully.
	Studying Hindi Languages	5	%		✓ Encourage participation in Hindi literary and cultural activities. ✓ Promote communication skills for employment across India.
8.	PG-Career Settlement				
	PG Placement /PG Academic/Research Institution	100	%		✓ Strengthen collaborations with industries, research laboratories and higher education institutions. ✓ Encourage postgraduate students to publish research papers and file patents. ✓ Facilitate campus recruitment for postgraduate students through industry partnerships. ✓ Guide students towards doctoral programmes, research fellowships and academic careers. ✓ Track alumni career progression and strengthen industry and academic networking.

B. FACULTY MEMBERS:

Sl.No.	Objective parameter	Target	UOM	Present Status	Strategic Planning
1.	Strengthening Knowledge				
	Online Courses (like NPTEL and other MOOC offered by premier institutions) - All Faculty	100	%	Good Progression	✓ To identify and declare the list of online courses for different cadres ✓ Faculty members up to AP(SG) are motivated to complete online courses compulsorily in courses taught/area of specialization.
	Attending FDP/STTP programs (Domain Specific Only)-All Faculty	100	%	Good progression	✓ Departments have to identify and facilitate for FDP/Industry know how program
	Resource persons in STTPs/FDPs	20	%	Needs Improvement	✓ All the faculty members are encouraged to

	Industry Know how programs - Industrial Visit (Asso. Prof., Prof.)	100	%	Needs Improvement	attend FDPprogram. ✓ APs with more than 2 years exp, AP(SG) & Asso. Prof. are motivated to undergo Industry Knowhow program ✓ AP(SG), Asso. Prof., &Professors have to collaborate with R&D Organization/Reputed Institution for their research work ✓ All the Ph.D Pursuing faculty members, AP with PhD &AP(SG) should be encouraged to attend Summer / Winter Fellowship in Reputed institutions like IIT/NITs
	Industry Know how programs - Industrial Training (AP with >2 yrs exp, AP(SG))	100	%	Needs Improvement	
	Visit to R&D Organization/Reputed Institution (AP(SG) , Asso. Prof., Prof.)	50	%	Initiation Level	
	Fellowship(AP(SG), AP pursuing PhD, AP with PhD)	20	No.	Not existing	
2.	Training programs organized				
	Training programs - With funding(FDP/STTP)	10	No.	Needs Improvement	✓ Identify funding opportunities from AICTE, ATAL Academy, DST, DRDO, ISRO, MeitY, SERB/ANRF, IEEE, ISTE and other government agencies. ✓ Prepare an annual calendar for submitting FDP/STTP proposals. ✓ Develop interdisciplinary and industry-oriented FDP/STTP themes aligned with emerging technologies. ✓ Collaborate with premier institutions (IITs, NITs, IIITs, IISc) and industries for joint conduct of programmes.
	Training programs - Self-supporting	10	No.		
	International Webinars(Resource Person should be Foreigner)	10	No.	Needs Improvement	
3.	Teaching Learning Process				
	E-content development	50	%	Very few	✓ Providing necessary infrastructure and technology which includes reliable internet access, compatible devices, and learning management systems (LMS) to develop high-quality e-content. ✓ Imparting training for faculty members for content creation tools, multimedia development, and instructional design.
	Innovative TLP	50	%		
	Value added courses	20	No.		
	Memberships in Professional Societies at National/International Levels	100	%		
	Organizing School Training Programs	20	No.		

					✓ Establishing a repository to organize and store digital learning materials, making them easily accessible for both teachers and students. ✓ Ensuring that all the faculty members should practice at least one innovative TLP per course and publish it in our college website. ✗ Conducting the value-added course to incorporate both technical and soft skills ✓ Seeking input from industry experts to tailor the content of value-added courses to meet industry requirements. ✓ Offering value-added courses through flexible delivery models, such as hybrid learning, blended learning, etc. to accommodate the diverse schedules and preferences of students.
2. Research & Development activities					
13.	PhD holders	70	%	Needs Improvement	✓ Monitoring the progress of PhD pursuing faculty members to assure quality and early completion ✓ PhD holders are encouraged to continue their research for getting Supervisorship. ✓ Facilitating the faculty members for doing research work
14.	Supervisorship (All PhD Holders)	100	%		
15.	PhD Pursuing	30	%		
16.	Publications in SCI journals	150	No	Needs Improvement	✓ All the PhD holders and PhD pursuing faculty members are motivated to publish their research work in reputed journals ✓ All the PhD holders should publish at least 2 papers every year ✓ Freedom to pursue collaborative research with industries and researchers for publications.

17.	Books/Book Chapter authored(Scopus Indexed)	20	No	Good progression	✓ Encourage faculty members to author books and book chapters with reputed international and national publishers (Springer, Elsevier, Taylor & Francis, Wiley, CRC Press, IEEE, etc.) in their domain of expertise.
18.	Full time scholars	12	No.	Needs Improvement	✓ All the supervisors should have at least one full time scholar ✓ To disseminate the research facility, areas, and expertise to attract scholars
19.	Faculty Support - TRL8-TRL9 (All Prof & Asso. Prof)	25	%	Needs Improvement	✓ Encourage Professors and Associate Professors to commercialize mature technologies through industry collaboration, technology transfer, licensing, and startup incubation. ✓ Facilitate product validation, pilot deployment, patent commercialization, and funding support for market-ready technologies.
20.	Faculty Support - TRL4-TRL7(All AP(SG) & Aps with Ph. D)	50	%	Needs Improvement	✓ Motivate faculty members to develop functional prototypes and validate technologies through funded research projects and industry collaborations. ✓ Provide financial and laboratory support for prototype development, field testing, patent filing, and proof-of-concept demonstration.
21.	Faculty Support - TRL1-TRL4(All Aps)	100	100	Needs Improvement	✓ Encourage Assistant Professors to identify research problems and develop innovative concepts through literature survey, ideation, and preliminary experimentation. ✓ Facilitate mentoring by senior faculty and provide seed funding and laboratory resources to establish proof-of-concept prototypes.

22.	Consultancy	30	30	Needs Improvement	✓ Departments have to assign faculty and facilitate for consultancy work ✓ Faculties are encouraged to get consultancy work through industry know how programs.
23.	Worth of consultancy	30L	Rupees		
24.	No. of project proposals/Technology Transfer to funding Agency	50	50	Needs Improvement	✓ PhD holders are encouraged to apply funded project in an appropriate funding agency in their thrust area in every semester ✓ Freedom to pursue collaborative research with IITs, NITs and R&D organizations to submit research proposals ✓ All the Professors and Asso. Professors should have a running project.
25.	Worth of on-going projects	1 crore	Rupees		
26.	Institution Seed Money (Research /Product Development)	16L	16L	Needs Improvement	✓ Establish a structured institutional seed grant scheme to support innovative research, prototype development, proof-of-concept studies, and interdisciplinary projects. ✓ Prioritize seed-funded projects with the potential for external funding, patents, technology transfer, startup creation, or commercialization, and monitor their outcomes periodically.
27.	No. of. Special Lab/ Centre of Excellence/research facility as individual or as member of team.	8	8	Needs Improvement	✓ Faculty members are encouraged to establish special labs for improving the skill set of students for placements, consultancy and research work ✓ Identifying the purpose of centre of excellence to focus on technology, skill-based learning, research and development.
28.	No. of functional MoUs	28	28	Needs Improvement	✓ Domain wise industries should be identified and skill gap between industry and institute can be identified
29.	MoUs signed in the Year	15	15		
30.	No. of Activities through MoUs	30	30		

					✓ Signing MoU with industry through faculty members undergoing industry know – how program. ✓ Arranging student's intern/workshop through MoU. ✓ Arranging expert lecture for students and faculty members from industry experts
3. Outreach Programmes					
1.	Delivering expert lecture and acting as session chair/judges/speaker in reputed organizations				
	International Events held at foreign countries	8	No.	Needs Improvement	✓ Encouraging faculty members for collaborative work ✓ Faculties are encouraged to act as a keynote speaker in International / National events or host a session in international conferences. ✓ Faculties are encouraged to interact with professors from other countries/ Inter - Institutes to promote research collaboration. ✓ Faculties are encouraged to publish their research findings/ expertise in books/ book chapters
	National Events	20	No.		
	International collaboration (book, Project submission, setting up of labs, technobation, Video course development, etc.)	8	No.		
	Inter-institutional collaboration (Publication, Project Submission)	8	No.		
	Awards/ Recognitions received from Government/Recognized body	8	No.	Needs Improvement	✓ Faculties are motivated to apply for Government/Recognized Body based on the norms satisfied.
	Foreign country visited for collaborative work	8	No.	Not existing	✓ Professors are encouraged to visit foreign countries for collaborative research work/ new initiatives.
	Social Related activities through NSS	15	No.	Needs Improvement	✓ Faculties are encouraged to conduct many social awareness programs to the public through the forums/clubs.
	Training to Industry personnel	8	No.	Not existing	✓ Collaborate with corporate partners, industry experts, and alumni to understand their expectations and requirements

					✓ Provide training to industry personnel by our experts
C.EXTENSION ACTIVITIES:					
1.	Alumni meets	7	Alumni Association	Needs Improvement	✓ Establish and maintain a comprehensive alumni database with updated contact information. ✓ Develop a regular communication plan to keep alumni informed about college updates, achievements, and upcoming events. ✓ Collaborate with industry leaders and successful alumni to participate as speakers or mentors during these events. ✓ Arranging alumni as mentors for students' career development ✓ Identify specific projects, scholarships, or initiatives that require funding. Clearly communicate the goals and impact of each fundraising campaign.
2.	Fund raising	30L	Alumni Association		
	Achievements- Extracurricular Activities from Govt/ recognized bodies	1/club	Extension Coordinator	Needs Improvement	✓ Encourage every club to participate in at least one Government /University/recognized organization event annually. ✓ Conduct regular coaching, practice sessions and mentoring by faculty coordinators. ✓ Establish collaborations with Government departments, NGOs and recognized organizations for student participation. ✓ Provide financial and logistical support for participation in competitions. ✓ Recognize and reward outstanding student achievements through awards and publicity in college media.

Achievements- Activities from Govt/ recognized bodies	Cocurricular	1/club	Extension Coordinator	Needs Improvement	✓ Motivate each club to participate in technical competitions, hackathons, symposiums and project contests organized by Government/recognized bodies. ✓ Organize department-level technical events to prepare students for higher-level competitions. ✓ Invite industry experts and academicians for workshops and hands-on training. ✓ Encourage students to publish papers, present projects and participate in innovation challenges. ✓ Showcase achievements through the college website and social media platforms.
Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties		2/club	Extension Coordinator	Needs Improvement	✓ Organize awareness programmes, seminars, guest lectures and pledge-taking events on universal and human values. ✓ Conduct community service activities such as Swachh Bharat, blood donation, tree plantation and social outreach programmes. ✓ Celebrate Constitution Day, Human Rights Day, National Unity Day and similar observances. ✓ Promote ethical values through club activities, competitions and student forums. ✓ Encourage NSS, YRC and other student organizations to organize value-based extension programmes.
National festivals and Anniversaries of the great Indian personalities		5/club	Extension Coordinator	Needs Improvement	✓ Prepare an annual calendar for celebrating national festivals and birth anniversaries of eminent Indian personalities. ✓ Organize essay writing, debates, quizzes,

					cultural programmes and exhibitions highlighting their contributions. ✓ Invite eminent speakers to deliver motivational talks. ✓ Publicize celebrations through institutional websites, newsletters and social media.
	Sports events organized (District/ Zonal/ National Level)	5/5/5	Physical Director	Needs Improvement	✓ Prepare an annual sports calendar covering district, zonal and national level events. ✓ Collaborate with universities, sports associations and Government agencies to host tournaments. ✓ Encourage maximum student participation by conducting selection trials and sports camps.
	No. of medals won (District/ Zonal/ National Level) (team considered as one)	5/5/5	Physical Director	Needs Improvement	✓ Identify talented sportspersons through systematic selection and continuous performance evaluation.. ✓ Support participation in district, zonal and national competitions through financial assistance and travel support. ✓ Introduce incentives, scholarships and recognition for medal winners.

D. INSTITUTIONAL RECOGNITIONS:

Sl.No.	Recognition parameter	Target (2024-25)	Target (2025-26)	Target (2026-27)	UOM	Responsibility
1.	NIRF	Within 200	Within 200	Within 200	Rank	Principal & HODs
2.	NIRF-Innovation	Within 150	Within 100	Within 50	Grade	Principal & HODs
3.	NBA	-	-	Full	Grade	Principal & HODs
4.	NAAC	-	-	Level 4	Grade	Principal & HODs
5.	AICTE-CII Survey (Dept. Level)	Platinum	Platinum	Platinum	Category	Principal & HODs
6.	QS Rating (SDG)	-	-	with in 1000	Rank	Principal & IQAC

* UOM: Unit of Measure

DEPARTMENT OBJECTIVES: 2026-2027

Timed Vision: (To be achieved in the academic year 2026- 2027)

NEC will be regarded as one of the top 25 Engineering Institutions in Tamil Nadu

OBJECTIVES OF NEC FOR THE ACADEMIC YEAR 2026-2027:

A. STUDENTS:

Sl. No.	Objective parameter	NEC	MECH	CSE	ECE	EEE	IT	CIVIL	AIDS	S&H	UOM	Responsibility
1. ADMISSION												
1.1	Strength	100	100	100	100	100	100	100	100	100	%	Principal & HODs
	a) UG Admission											
	(TNEA counselling)											
	Round 1	65	30	90	90	50	80	30	90	65	%	Principal & HODs
	Round 2	35	70	10	10	50	20	70	10	35	%	Principal & HODs
	Round 3	0	0	0	0	0	0	0	0	0	%	Principal & HODs
	b) Cut off details											
	Average (Counselling)	180	165	185	185	175	180	165	185	180	Mark	Principal & HODs
	Average(Total Strength)	170	160	180	175	165	175	155	180	170	Mark	Principal & HODs
1.2	PG Admission	100	0	100	100	100	100	0	0	0	%	Principal & HODs
1.3	Regional distribution											
	Kovilpatti Educational District	50	50	50	50	50	50	50	50	50	%	Principal & HODs
	Districts Around KVP	50	50	50	50	50	50	50	50	50	%	Principal & HODs
1.4	Gender distribution											
	Male Students	50	90	40	40	50	40	50	40	50	%	Principal & HODs
	Female Students	50	10	60	60	50	60	50	60	50	%	Principal & HODs

Sl. No.	Objective parameter		NEC	MECH	CSE	ECE	EEE	IT	CIVIL	ALDS	S&H	UOM	Responsibility		
2. ACADEMIC ACHIEVEMENTS															
2.1	Pass percentage														
	Without Backlog	I year	90	90	90	90	90	90	90	90	90	90	%	HODs, Tutors & Course instructors	
		II year	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	NA		%
		III year	85	85	85	85	85	85	85	85	85	85	NA		%
		IV year	85	85	85	85	85	85	85	85	85	85	NA		%
	With Backlog	I year	90	90	90	90	90	90	90	90	90	90	90		%
		II year	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	NA		%
		III year	100	100	100	100	100	100	100	100	100	100	NA		%
		IV year	100	100	100	100	100	100	100	100	100	100	NA		%
2.2	GRADES (Average of I,II,III & IV year students)														
	CGPA - above 8.5		15	15	15	15	15	15	15	15	15	15	%	HODs, Tutors & Course instructors	
	CGPA 7.5 -8.5		70	70	70	70	70	70	70	70	70	70	%		
	CGPA 6.5 – 7.5		15	15	15	15	15	15	15	15	15	15	%		
3. STUDENTS POTENTIAL TRANFORMATION															
3.1	Achievements and participation in National/International events (Premier Intuitions, Industries &Organizations) I, II& III Year Only														
	3.1.1 Memberships in Professional Societies		100	100	100	100	100	100	100	100	100	100	%	HODs & Tutors	
	3.1.2 Students Participation		100	100	100	100	100	100	100	100	100	100	%	HODs & Tutors	
	I Year	A. As A Learner	50	50	50	50	50	50	50	50	50	50	%	HODs & Tutors	

Sl. No.	Objective parameter		NEC	MECH	CSE	ECE	EEE	IT	CIVIL	AIDS	S&H	UOM	Responsibility
		b. As a Competitor	50	50	50	50	50	50	50	50	50	%	HODs & Tutors
	II Year	A. As A Learner	30	30	30	30	30	30	30	30	30	%	HODs & Tutors
		b. As a Competitor	70	70	70	70	70	70	70	70	70	%	HODs & Tutors
	III Year	A. As A Learner	10	10	10	10	10	10	10	10	10	%	HODs & Tutors
		b. As a Competitor	90	90	90	90	90	90	90	90	90	%	HODs & Tutors
	3.1.3 Students Achievements		20	20	20	20	20	20	20	20	20	%	HODs & Tutors
	3.1.4 Participation in Other States/ Other Countries (Online mode)		20	20	20	20	20	20	20	20	20	%	HODs & Tutors
	3.1.5 Participation in Other States/ Other Countries (Physical mode)		15	15	15	15	15	15	15	15	5	%	HODs & Tutors
	3.1.6 Technical Contests Like Hackathons/Ideathons		100	100	100	100	100	100	100	100	20	%	HODs, Tutors & Dean IR
	3.1.7 Achievements in Contests Like Hackathons (leading to Placement/Internship)		20	10	25	25	10	20	10	25	NA	%	HODs & Tutors
	a. Shortlisted/Qualified		50	50	50	50	50	50	50	50	NA	%	HODs & Tutors
	b. Finalist		110	7	30	30	7	15	7	15	NA	No.	HODs & Tutors
	c.Runnerup		50	2	15	15	2	8	2	8	NA	No.	HODs & Tutors

Sl. No.	Objective parameter	NEC	MECH	CSE	ECE	EEE	IT	CIVIL	AIDS	S&H	UOM	Responsibility
	d. winner	20	1	5	5	1	3	1	3	NA	No.	HODs & Tutors
3.2	Students Publication											
	3.2.1 SCI Indexed Journal	7	1	1	1	1	1	1	1	NA	No.	HODs, Project Guide & Tutors
	3.2.2 Patents Filed	180	20	40	40	20	20	20	20	NA	No.	HODs, project Guide & Tutors
	3.2.3 Scopus Indexed Publications	180	20	40	40	20	20	20	20	10 Through Design Thinking	No.	
	3.2.4 Journals, Magazines, Newsletters etc	24	3	3	3	3	3	3	3	3	No.	HODs
3.3	Funded Projects											
	3.3.1 No. of Projects	20	3	4	4	2	2	2	2	1	No.	HODs, Project Guide & Tutors
	3.3.2 Worth of Project	10 lakhs (5 L internal +5 L external)	1L	2L	2L	1L	1L	1L	1L	1L	Lakhs	HODs, Project Guide & Tutors
3.4	Quality of Internships											
	3.4.1 Public Sector undertakings & MNCs	45	45	45	45	45	45	45	45	-	%	HODs, Tutors & Dean (IR)
	3.4.2 Other Private Industries	45	45	45	45	45	45	45	45	-	%	HODs,Tutors & Dean (IR)
	3.4.3 Fellowship at NITs, IITs & IISc/Central universities & research institution	10	10	10	10	10	10	10	10	-	%	HODs, Tutors& HODs& Dean (IP&B)

Sl. No.	Objective parameter	NEC	MECH	CSE	ECE	EEE	IT	CIVIL	AIDS	S&H	UOM	Responsibility
4. CAREER SETTLEMENT												
4.1	Placement											
	Through Placement Cell	90	90	90	90	90	90	90	90	-	%	HODs, DPC, Tutors & Placement Convener
4.2	Salary Level											
	Median Salary	5	3.6	6	5	4	5	3.6	5	-	Lakhs	HODs, DPC, Tutors & Placement Convener
	Above 20 lakhs (SD)	7	1	1	1	1	1	1	1	-	Nos.	
	15-20 lakhs(D1)	8	1	1	2	1	1	1	1	-	Nos.	
	10-15 Lakhs(D2)	20	1	5	5	2	3	1	3	-	Nos.	
	7-10 lakhs	20	5	30	30	20	30	5	30	-	%	
	5-7 lakhs	30	15	40	35	30	40	10	40	-	%	
	3.6-5 lakhs	30	60	15	15	30	15	60	15	-	%	
	< 3.6 Lakhs	7	5	0	5	5	0	10	0	-	%	
	Bring new companies offering high salary packages	40	5	8	8	5	5	5	4	-	Nos.	HODs, Dean (IR) & Placement Convener
4.3	Higher Level Placement											
	4.3.1 Conversion from Internships	75	7	20	6	6	10	6	10	-	Nos.	HODs, DPC, Tutors & Dean (IR)
	4.3.2 Winning contest/Hackathon	30	1	10	5	1	5	1	5	-	Nos.	HODs, DPC, Tutors & Dean (IR)
	4.3.3 Referral Process Through Alumni	7	1	1	1	1	1	1	1	-	Nos.	HODs, DPC, Tutors & Alumini Coordinator
	4.3.4 Showcasing through Social Media	7	1	1	1	1	1	1	1	-	Nos.	HODs, DPC, Tutors
	4.3.5 Through Foreign Languages Studies	9	2	1	1	2	1	1	1	-	Nos.	HODs, DPC, Tutors. CFLS

Sl. No.	Objective parameter	NEC	MECH	CSE	ECE	EEE	IT	CIVIL	AIDS	S&H	UOM	Responsibility
	4.3.6 Public Sector Placement through GATE	9	1	2	2	1	1	1	1	-	Nos.	HODs, Tutors, & HS cell
4.4	Competitive Examination											
	4.4.1 GATE Exam(only Third year students) obtained 30 score	5	5	5	5	5	5	5	5	-	%	HODs, Tutors, & HS cell
	4.4.2 TOEFL,GRE, GMAT, IELTS, CAT, MAT, etc.	5	5	5	5	5	5	5	5	-	%	HODs, Tutors, & HS cell
4.5	Higher Education											
	4.5.1 Higher Education	5	5	5	5	5	5	5	5	-	%	HODs, Tutors, & HS cell
	4.5.2 Foreign Universities	9	1	2	2	1	1	1	1	-	Nos.	HODs, Tutors, & HS cell
	4.5.3 IITs, IISc & NITs	9	1	2	2	1	1	1	1	-	Nos.	HODs, Tutors, & HS cell
	4.5.4 Govt./Govt. aided institutions/ Reputed institutions	9	1	2	2	1	1	1	1	-	Nos.	HODs, Tutors, & HS cell
4.6	Entrepreneurship	5	5	5	5	5	5	5	5	-	%	HODs, Tutors, & EDcell
4.7	Foreign and Hindi Languages											
	4.7.1 Studying Foreign Languages(II and III Year - Minimum Level Certificate)	5	5	5	5	5	5	5	5	-	%	HODs & Tutors, CFLS
	4.7.2 Studying Hindi Languages	5	5	5	5	5	5	5	5	-	%	HODs & Tutors, CFLS
4.8	PG-Career Settlement											
	PG Placement /PG Academic/Research Institution	100	0	100	100	100	100	0	0	-	%	HODs & Tutors

B. FACULTY MEMBERS:

Sl. No.	Objective parameter	NEC	MECH	CSE	ECE	EEE	IT	CIVIL	AIDS	S&H	UOM	Responsibility
5. FACULTY MEMBERS												
5.1	Strengthening Knowledge											
	5.1.1 Online Courses (like NPTEL and other MOOC offered by premier institutions) - All Faculty	100	100	100	100	100	100	100	100	100	%	HODs
	5.1.2 Attending FDP/STTP programs (Domain Specific Only)-All Faculty	100	100	100	100	100	100	100	100	100	%	HODs
	5.1.3 Resource persons in STTPs/FDPs	20	20	20	20	20	20	20	20	20	%	HODs
	5.1.4 Industry Know how programs - Industrial Visit (Asso. Prof., Prof.)	100	100	100	100	100	100	100	100	NA	%	HODs & Dean (IR)
	5.1.5 Industry Know how programs - Industrial Training (AP with >2 yrs exp, AP(SG))	100	100	100	100	100	100	100	100	NA	%	HODs & Dean (IR), Placement Convener
	5.1.6 Visit to R&D Organization/Reputed Institution (AP(SG) , Asso. Prof., Prof.)	50	50	50	50	50	50	50	50	50	%	HODs
	5.1.7 Fellowship(AP(SG), AP pursuing PhD, AP with PhD)	20	2	4	4	2	3	2	2	2	No.	HODs, Dean (R&D)
5.2	Training programs organized											
	5.2.1 Training programs - With funding(FDP/STTP)	10	1	2	2	1	1	1	1	1	No.	Principal & HODs
	5.2.2 Training programs - Self-supporting	10	1	2	2	1	1	1	1	1	No.	Principal & HODs
	5.2.3 International Webinars(Resource Person should be Foreigner)	10	1	2	2	1	1	1	1	1	No.	Principal & HODs

Sl. No.	Objective parameter	NEC	MECH	CSE	ECE	EEE	IT	CIVIL	AIDS	S&H	UOM	Responsibility
5.3	Teaching Learning Process											
	5.3.1 E-content development	50	50	50	50	50	50	50	50	50	%	HODs, Dean (ACD&FD)
	5.3.2 Innovative TLP	50	50	50	50	50	50	50	50	50	%	HODs, Dean (ACD&FD)
	5.3.3 Value added courses	20	2	4	4	2	3	2	2	2	No.	HODs
	5.3.4 Memberships in Professional Societies at National/International Levels	100	100	100	100	100	100	100	100	NA	%	HODs
	5.3.5 Organizing School Training Programs	20	2	4	4	2	2	2	2	2	No.	HODs
6.1	6. Research & Development activities											
	6.1.1 PhD holders	70	90	60	70	70	60	60	60	70	%	HODs, Dean (R&D)
	6.1.2 Supervisorship (All PhD Holders)	100	100	100	100	100	100	100	100	100	%	HODs, Dean (R&D)
	6.1.3 PhD Pursuing	30	10	40	30	30	40	40	40	30	%	HODs, Dean (R&D)
	6.1.4 Publications in SCI journals	150	30	20	20	25	10	15	10	20	No.	HODs, Dean (R&D)
	6.1.5 Books/Book Chapter authored(Scopus Indexed)	20	2	4	4	2	2	2	2	2	No.	HODs, Dean (R&D)
	6.1.6 No. of full time scholars	12	2	2	2	1	1	1	1	2	No.	HODs, Dean (R&D)
	6.1.7 Faculty Support - TRL8-TRL9 (All Prof & Asso. Prof)	25	25	25	25	25	25	25	25	NA	%	HODs, ED cell
	6.1.8 Faculty Support - TRL4-TRL7(All AP(SG) & Aps with Ph. D)	50	50	50	50	50	50	50	50	NA	%	HODs, ED cell
	6.1.9 Faculty Support - TRL1-TRL4(All Aps)	100	100	100	100	100	100	100	100	NA	%	HODs, ED cell
	6.1.10 Consultancy	30	5	5	3	5	3	5	2	2	No.	HODs, Dean (IR)
	6.1.11 Worth of consultancy	30L	4L	4L	4L	4L	4L	4L	4L	2L	Lakhs	HODs, Dean (IR)

Sl. No.	Objective parameter	NEC	MECH	CSE	ECE	EEE	IT	CIVIL	AIDS	S&H	UOM	Responsibility
	6.1.12 No. of project proposals/Technology Transfer to funding Agency	50	10	8	7	5	5	5	4	6	No.	HODs, Dean (R&D)
	6.1.13 Worth of on-going projects	1 Crore	25L	25L	25L	25L	25L	25L	25L	25L	Lakhs	HODs, Dean (R&D)
	6.1.14 Institution Seed Money (Research /Product Development)	16L	2L	2L	2L	2L	2L	2L	2L	2L	Lakhs	HODs, Dean (R&D)
	6.1.15 No. of. Special Lab/ Centre of Excellence/research facility as individual or as member of team.	8	1	1	1	1	1	1	1	1	No.	HODs
	6.1.16 No. of functional MoUs	28	4	4	4	4	4	4	4	NA	No.	HODs
	6.1.17 MoUs signed in the Year	15	2	2	2	2	2	2	2	NA	No.	HODs
	6.1.18 No. of activities through MOUs	30	4	5	5	4	4	4	4	NA	No.	Principal & HODs
7. Outreach Programmes												
7.1	Delivering expert lecture and acting as session chair/judges/speaker in reputed organizations											
	7.1.1 International Events held at foreign countries	8	1	1	1	1	1	1	1	1	No.	Principal, HODs& Dean (IP&B)
	7.1.2 National Events	20	2	4	4	2	2	2	2	2	No.	HODs& Dean (IP&B)
	7.1.3 International collaboration (book, Project submission, setting up of labs, technobation, Video course development, etc.)	8	1	1	1	1	1	1	1	1	No.	HODs&Dean (IP&B)
	7.1.4 Inter-institutional collaboration (Publication, Project Submission)	8	1	1	1	1	1	1	1	1	No.	HODs& Dean (IP&B)
	7.1.5 Awards/ Recognitions received from Government/Recognized body	8	1	1	1	1	1	1	1	1	No.	HODs& Dean (IP&B)

Sl. No.	Objective parameter	NEC	MECH	CSE	ECE	EEE	IT	CIVIL	AIDS	S&H	UOM	Responsibility
	7.1.6 Foreign country visited for collaborative work	8	1	1	1	1	1	1	1	1	No.	Principal, HODs& Dean (IP&B)
	7.1.7 Social Related activities through NSS	15	2	2	2	2	2	2	2	1	No.	Principal, HODs&Dean (IP&B)
	7.1.8 Training to Industry Personnel	8	1	1	1	4	1	1	1	1	No.	Principal, HODs& Dean (IR)

C. EXTENSION ACTIVITIES:

S. No	Objective parameter	NEC	UOM
1	Alumni meets (Inclusive of Local Chapters)	7	Alumni Association
2	Fund raising	30L	Alumni Association
3	Achievements- Extracurricular Activities from Govt/ recognized bodies	1/club	Extension Coordinator
4	Achievements- Cocurricular Activities from Govt/ recognized bodies	1/club	Extension Coordinator
5	Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties	2/club	Extension Coordinator
6	National festivals and Anniversaries of the great Indian personalities	5/club	Extension Coordinator
7	Sports events organized (District/ Zonal/ National Level)	5/5/5	Physical Director
8	No. of medals won (District/ Zonal/ National Level) (team considered as one)	5/5/5	Physical Director

D. INSTITUTIONAL RECOGNITION:

Sl.No.	Recognition parameter	Target (2024-25)	Target (2025-26)	Target (2026-27)	UOM	Responsibility
1.	NIRF	Within 200	Within 200	Within 200	Rank	Principal & HODs
2.	NIRF-Innovation	Within 150	Within 100	Within 50	Grade	Principal & HODs
3.	NBA	-	-	Full	Grade	Principal & HODs
4.	NAAC	-	-	Level 4	Grade	Principal & HODs
5.	AICTE-CII Survey (Dept. Level)	Platinum	Platinum	Platinum	Category	Principal & HODs
6.	QS Rating (SDG)	-	-	with in 1000	Rank	Principal & IQAC

* UOM: Unit of Measure

Head/SPQAC

PRINCIPAL

Way Forward



[Signature]
Head/SPQAC



[Signature]
PRINCIPAL
Dr. K. Kalidasa Murugavel, M.E., Ph.D.,
PRINCIPAL
NATIONAL ENGINEERING COLLEGE
K.R. NAGAR, KOVILPATTI - 628 503.
THOOTHUKUDI-DIST