

STRATEGIC PLAN (2026 – 2031)



JAI SHRIRAM ENGINEERING COLLEGE

(An Autonomous Institution)

TIRUPUR

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Recognized by UGC & Accredited by NAAC and NBA (CSE and ECE)

INSTITUTE VISION, MISSION AND QUALITY POLICY

VISION

- To provide world - class engineering and management education to promote the rural community students with research oriented global competitiveness.

MISSION

IM1: Maintaining a level of excellence and standards in all the programmes which leads to global significance.

IM2: Providing research-oriented opportunities and promote the rural community students as an employable engineers and successful administrators with hands on experience and industrial exposure.

IM3: Inculcating entrepreneurial culture among the young minds and create leaders to serve the society with ethical values.

QUALITY POLICY

At Jai Shriram Engineering College, we are committed to deliver a world-class engineering and management education that fosters global competitiveness by research, industry connectivity, higher education opportunities, ethical leadership, and social responsibility through innovative teaching by dedicated faculty, continuous enhancement of facilities, faculty development, and a system of continuous process improvement, ensuring our students excel academically, professionally and socially.

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1. INTRODUCTION

Technical education plays a vital role in national technological, industrial, economic, and social development. In an era of rapid technological change, globalisation, evolving industry practices, and emerging societal needs, engineering institutions must continuously enhance the quality, relevance, and effectiveness of their academic and institutional processes. They are responsible for developing graduates with sound technical knowledge, practical competence, problem-solving ability, creativity, adaptability, professional ethics, leadership, and social responsibility.

Jai Shriram Engineering College, Tirupur, is committed to provide equitable, inclusive, and quality-oriented technical education to students from diverse socio-economic and educational backgrounds. Special attention is given to rural students and first-generation learners through mentoring, academic counselling, skill development, communication enhancement, career guidance, digital learning and student support services. The institution promotes academic excellence, integrity, innovation, employability, inclusiveness and social responsibility through outcome-based education, experiential learning, industry exposure, co-curricular activities, professional development and continuous assessment.

Promoted by Barani Hydraulics India Pvt. Ltd., a reputed machine-building organisation, the institution benefits from strong industry linkages in hydraulic machinery, manufacturing, industrial engineering, and technology-driven production. These linkages support industrial visits, internships, in-plant training, collaborative projects, expert interactions, skill-oriented programmes, design activities and exposure to advanced manufacturing systems. Such initiatives enhance students' technical competence, employability, innovation capabilities, and professional readiness.

The institution is strengthening its academic infrastructure, laboratories, research facilities, innovation ecosystem, faculty competencies and student support systems. Faculty members and students are encouraged to pursue research, consultancy, intellectual property creation, product development, entrepreneurship, technology transfer and socially relevant innovation. Emerging areas such as Artificial Intelligence, the Internet of Things, robotics, automation, advanced manufacturing, data science, renewable energy, smart systems, and digital transformation are integrated into academic and professional development initiatives.

The Institutional Strategic Plan 2026–2031 has been formulated as a structured framework for sustained institutional growth, academic excellence, quality enhancement, and continuous improvement. Aligned with the institutional Vision and Mission, the plan

has been developed through stakeholder participation involving the management, faculty, staff, students, alumni, industry partners and other stakeholders. It provides strategic direction for strengthening teaching-learning processes, student learning outcomes, research, innovation, employability, entrepreneurship, collaborations, infrastructure, governance, institutional effectiveness and community engagement.

The plan emphasises equitable educational opportunities, quality assurance, data-driven decision-making, periodic review and continuous improvement. Through its systematic implementation, Jai Shriram Engineering College aspires to become a future-ready, industry-oriented, innovation-driven, inclusive and socially responsible institution that contributes meaningfully to the technological, economic, environmental and social development of Tirupur, Tamil Nadu, and the nation.

2. ABOUT THE ORGANIZATION

Jai Shriram Engineering College (JSREC), Tirupur, was established in 2009 by the Shenthil Velevar Trust to provide quality technical education and support the aspirations of students from rural communities in and around Tirupur. The institution has been approved by the All-India Council for Technical Education (AICTE), New Delhi and affiliated to Anna University, Chennai. The institution promotes academic excellence, ethical values, communal harmony, innovation, entrepreneurship, teamwork, leadership and social responsibility.

The institution is guided by Shri. M. Govindasamy, Chairman, and Shri. T. K. Karuppannaswamy, Vice Chairman. Their industrial experience and vision have strengthened the institution's industry-integrated and value-based approach to engineering education.

JSREC began with 180 students in four undergraduate programmes. Through continuous academic development, infrastructure enhancement, faculty enrichment, industry collaboration and quality-oriented practices, the institution has expanded significantly. It currently offers eight undergraduate programmes with an approved intake of 480 students and four postgraduate programmes with an intake of 78 students. The total student strength is approximately 1,800.

The institution provides a holistic learning environment through modern laboratories, academic facilities, student support systems, co-curricular activities, extracurricular activities and a green campus. Emphasis is placed on practical learning, creativity, leadership, innovation, character development and professional competence.

JSREC benefits from its association with an established industrial group having major manufacturing divisions in Coimbatore and an international presence. Its strong Industry–Academia interface supports industrial visits, internships, in-plant training, expert lectures, collaborative projects, skill development and exposure to advanced technologies. These initiatives enhance students' technical knowledge, employability, innovation and workplace readiness.

JSREC was granted Autonomous Status in 2024 by the UGC and Anna University. It was also accredited by NAAC with an 'A' Grade in 2024. B.E. Computer Science and Engineering and B.E. Electronics and Communication Engineering have been accredited by NBA since 2021 and reaccredited in 2024 till 2027. JSREC aims to develop globally competent professionals, responsible citizens, innovative entrepreneurs and future leaders committed to national development and societal progress.

3. JOURNEY AND HIGHLIGHTS

- 2008: Started Shenthil Velevar Charitable Trust
- 2009: Four UG Programmes B.E CSE, B.E ECE, B.E EEE and B.E Mechanical Engineering.
- 2010: B.E Civil Engineering and Master of Business Administration MBA
- 2012: M.E CSE and M.E Applied Electronics
- 2014: M.E Structural Engineering
- 2020: B. Tech Fashion Technology
- 2021: B. Tech Artificial Intelligence and Data Science
- 2024: B. Tech Information Technology
- Eco-Friendly green and clean campus of 11.92 acres with built up area of 18761.73 Sq.m.
 - 8 UG Programmes and 4 PG Programmes
 - 1828 students, 119 faculty with 19 Ph.D holders and 27 non-teaching staff
 - Accredited by NAAC with the Grade A
 - Two B.E programmes accredited for 3 years by National Board of Accreditation (NBA), New Delhi.
 - Rs. 1.29 crore of research and program grants received from various funding agencies like AICTE, TNSCST, ICSSR, ANRF, CSIR, etc.,
 - Active MoUs with foreign Universities and Industries.
 - Active NPTEL Local Chapter
 - 24 Patents granted and 112 Patents Published so far
 - Research Publication by faculty in Scopus and peer reviewed journals: 493
 - Good Placement – Around 96.5 % of students placed every year
 - Computerized Library with 29272 volumes, 11685 titles and 500 online journals (Springer and DELNET).
 - On campus accommodation for men and women – Capacity 400
 - Extensive computing facilities with 680 terminals
 - Campus wide networking with optical fiber and Wi-Fi connectivity
 - Internet facility with 420 Mbps
 - Air-conditioned seminar Halls and Conference Hall
 - RO Plant to provide treated drinking water
 - Transport facility for faculty, staff and students with 20 buses
 - H.T. Power supply backed by captive generators of 160 kVA
 - 80 KW power generated from solar energy
 - Top 10% of meritorious students are benefitted by scholarship
 - Full scholarship to students who excel in sports

4. SWOC ANALYSIS

Institutional Strength

- Well experienced and dedicated faculty members
- Strong administration with standard procedures, management policies and practices
- Financial support to the faculty members for Journal publications, participation in Conference and courses
- Excellent infrastructure with adequate laboratories
- Accredited by NBA for two programmes
- Meritorious scholarship to the deserving students and for the economically weaker section students
- Well planned and continuous training that leads to better Placement opportunity
- Active student participation through various Cells/ Clubs/ Committees
- Active participation by alumni in supporting academic and placement activities
- Collaborated with reputed Industries and MNCs.
- Industry owned Institute - Barani Hydraulics, Coimbatore a leading global level Hydraulics Machine building industry

Institutional Weakness

- Avenues in receiving funds through various funding agencies are limited
- Getting students from other states or other districts
- Department yet to get recognition as Research Centers

Institutional Opportunity

- Resource/Revenue generation through consultancy
- Utilization of Alumni database to develop academic engagement and placement
- Opting for Autonomy to enhance the curriculum as per the industrial needs

Institutional Challenge

- Attracting high caliber students
- Less number of students opting for higher studies
- Being an affiliated institute, difficult to bridge the gap between academic curriculum and industry expectations

5. GOALS OF JSREC

- To achieve academic excellence by fostering quality education, enhancing employability and industry-relevant skills, promoting innovation, entrepreneurship, leadership, holistic development, ethical values, social responsibility, and sustainable practices among students.
- To strengthen faculty excellence through effective teaching, continuous professional development, research, and strong industry collaboration, thereby enhancing academic quality, knowledge creation, consultancy, and outcome-based education.
- To achieve institutional excellence through quality education, accreditation-driven continuous improvement, research and innovation, entrepreneurship development, industry and global collaborations, sustainable smart-campus initiatives, and transparent governance that enhances stakeholder satisfaction and societal impact.

1. Teaching, Learning and Outcome-Based Education: Strengthen teaching–learning processes through innovative pedagogies, Outcome-Based Education (OBE), effective assessment practices, academic mentoring and continuous monitoring to improve student learning outcomes, academic performance and attainment of Program Outcomes.

2. Research, Innovation and Industry Connectivity: Promote quality research, innovation, patents, funded projects, consultancy, entrepreneurship and industry-oriented problem solving through interdisciplinary research, Centre of Excellence, incubation initiatives and strong industry partnerships.

3. Collaboration, Global Exposure and Alumni Engagement: Establish and strengthen collaborations with industries, foreign universities, academic institutions, professional bodies, and alumni for joint research, internships, student and faculty exchange, international exposure, knowledge sharing, mentoring and institutional development.

4. Finance, Governance and Institutional Management: Ensure transparent, accountable, efficient and sustainable financial management and institutional governance through effective planning, budgeting, resource mobilization, policy implementation, risk management, stakeholder participation and continuous administrative improvement.

5. Community Engagement and Social Responsibility: Strengthen institutional engagement with society by promoting community service, extension activities, NSS initiatives, environmental sustainability, rural development, social awareness and value-based education, thereby developing socially responsible and ethical professionals.

6. Quality Enhancement and Institutional Excellence: Develop a strong culture of continuous quality improvement through IQAC, academic and administrative audits, stakeholder feedback, data-driven decision-making, Outcome-Based Education and systematic preparation for NAAC, NBA, NIRF, QS and other quality and ranking frameworks.

7. Infrastructure and Smart Campus Development: Develop modern, safe, sustainable, accessible and technology-enabled infrastructure, including laboratories, classrooms, libraries, research facilities, digital learning resources, Centre of Excellence, green campus initiatives, smart campus systems and efficient resource management.

8. Skill Development and Professional Excellence for Faculty and Students: Enhance the professional competencies of faculty and students through continuous training, FDPs, certifications, internships, industrial training, emerging-technology programmes, communication and leadership development, career guidance, higher education opportunities and lifelong learning initiatives.

6. REVIEW OF STRATEGY PLAN (2022-26)

STRATEGIC GOAL	ASPECTS	ATTAINMENT
1: Teaching, Learning and Outcome-Based Education	Innovative Teaching Pedagogies	Incorporated innovative pedagogies such as flipped classroom, collaborative learning, problem-based learning, case studies, experiential learning and ICT-enabled teaching in at least 80% of courses.
	Outcome-Based Education (OBE)	100% of courses have clearly defined Course Outcomes (COs), CO-PO mapping and appropriate attainment targets aligned with the programme objectives.
	Continuous Assessment Practices	Conducted continuous assessments through assignments, quizzes, internal examinations, projects, presentations and other appropriate tools, with timely feedback to students.
	CO Attainment	Achieved at least 70% CO attainment across courses through systematic assessment, analysis and corrective measures.
	Program Outcome Attainment	Improved PO attainment progressively each academic year, with at least 70% of students meeting the defined PO attainment threshold.
	Academic Mentoring	Provided 100% student coverage under the mentor-mentee system, with regular mentoring meetings, academic counselling and individual progress monitoring.
	Support for Slow and Advanced Learners	Identified 100% of slow and advanced learners through academic performance analysis and provided remedial classes, bridge courses, enrichment activities and advanced learning opportunities.
	Faculty Development in Teaching-Learning	At least 80% of faculty members participate annually in FDPs, workshops, seminars
	Academic Performance Monitoring	Established periodic review of attendance, internal assessment, course performance, CO attainment and university results.
	Continuous Improvement through Feedback	Collected and analysed feedback from students, faculty, alumni and other stakeholders on teaching-learning practices and implemented at least 80% of feasible

		improvement measures identified through the feedback process.
2: Research, Innovation and Industry Connectivity	Quality Research Publications	Increased quality research publications with a target of 10–15% annual growth in SCI/ Scopus/ WoS-indexed publications.
	Patents and Intellectual Property	Encouraged faculty and students to file minimum 12 patents annually, with progressive conversion of eligible patents into grants, copyrights, designs or technology transfers.
	Funded Research Projects	Secured 3 externally funded research projects annually from government agencies and industries.
	Consultancy and Industry Projects	Achieved 10% annual growth in consultancy revenue through faculty expertise and institutional facilities.
	Centre of Excellence (CoE) Utilization	Effectively utilized Centres of Excellence for research and skill development with 70% of eligible students/ faculty participating in CoE-based activities.
	Interdisciplinary Research and Innovation	Established interdisciplinary research teams and completed 3 interdisciplinary projects annually.
	Incubation and Entrepreneurship	Promoted entrepreneurship through incubation, mentoring, prototype development and startup support
	Industry-Oriented Problem Solving	Established strong industry partnerships through MoUs, joint R&D, live projects, technology transfer and problem statements, with minimum 8 industry-supported projects.
3: Collaboration, Global Exposure and Alumni Engagement	Industry Collaboration	Established and strengthened industry partnerships through 50 MoUs, industry visits, internships, guest lectures, joint projects, consultancy and industry-oriented training programmes.
	Foreign University Collaboration	Initiated collaborations with foreign universities/ institutions for academic interaction, joint research, faculty/ student exchange, international conferences and opportunities for global exposure.
	Academic Institution Collaboration	Strengthened linkages with IITs, NITs, IIITs, universities and reputed academic institutions through joint research, FDPs, workshops,

		expert lectures and knowledge-sharing activities.
	Professional Body Engagement	Established active engagement with professional societies and bodies through memberships – IEEE, IETE, SAE, SSEM, CSI, TAI, etc.,
	Alumni Engagement and Mentoring	Strengthened the Alumni Association by involving alumni in mentoring, career guidance, technical talks, internships, placement support, entrepreneurship initiatives and institutional development activities.
4: Finance, Governance and Institutional Management	Financial Planning and Budgeting	Annual budgets prepared and implemented with effective allocation and monitoring of resources.
	Transparency and Accountability	Financial transactions, audits and administrative decisions maintained with proper records and accountability.
	Resource Mobilization	Additional resources mobilized through consultancy, funded projects, industry collaboration and other permissible sources.
	Policy Implementation	Institutional policies and procedures implemented through defined roles, responsibilities and monitoring mechanisms.
5: Community Engagement and Social Responsibility	Community Service and Extension	Conducted community service and extension activities in nearby villages.
	NSS Initiatives	Implemented NSS activities including awareness programmes, camps and social service on Blood donation, Eye camps etc.,
	Environmental Sustainability	Conducted tree plantation, waste management and environmental awareness activities through Eco club and planted 540 trees.
	Rural Development	Undertook technology-enabled rural development and community outreach programmes through Unnat Bharat Abiyan.
	Social Awareness	Organized awareness programmes on health, education, safety, hygiene and social responsibility.
	Value-Based Education	Integrated ethical values, social responsibility and professional ethics into the curriculum and student development activities.
6: Quality Enhancement and Institutional Excellence	IQAC and Quality Audits	IQAC activities and periodic academic and administrative audits were strengthened.
	Stakeholder Feedback and Data Analysis	Stakeholder feedback was collected, analysed and used for data-driven improvement.

	OBE and Continuous Improvement	OBE practices, CO–PO attainment and corrective actions were systematically monitored.
	Accreditation and Ranking Preparedness	Systematic documentation and quality processes were strengthened for NAAC, NBA and other frameworks.
7: Infrastructure and Smart Campus Development	Modern Academic Infrastructure	Classrooms, laboratories and library facilities were upgraded
	Research and CoE Facilities	Research facilities and Centres of Excellence were strengthened
	Digital and Smart Campus	ICT-enabled learning, digital resources and smart campus systems were implemented.
	Green and Sustainable Campus	Energy conservation is achieved by installing Roof top solar panels, waste management and green campus initiatives were strengthened
8. Skill Development and Professional Excellence for Faculty and Students:	Faculty Development Programmes (FDPs)	80% of faculty participated in FDPs, workshops and training programmes.
	Professional Certifications	70% of faculty and students completed relevant professional certifications.
	Internships and Industrial Training	80% of eligible students completed internships or industrial training.
	Emerging Technology Training	60% of students and faculty underwent training in emerging technologies.
	Communication and Leadership Skills	85% of students participated in communication, soft-skill and leadership programmes.
	Career Guidance and Placement Readiness	100% of final-year students received career guidance and placement training.
	Higher Education and Competitive Examinations	100% of interested students were supported through higher-education guidance and competitive examination preparation.
	Lifelong Learning and Continuous Skill Development	75% of faculty and students participated in continuous learning and skill-development initiatives.

7. STRATEGIC PLAN (2022-26) IMPLEMENTATION REPORT

Year	Planned Activity	Implementation Details & Outcomes				
2022-23	Implementation of Pedagogical Tools	The various Pedagogical tools adopted by the faculty members in teaching -learning are: • ICT-enabled and innovative teaching-learning tools • Experiential Learning • Collaborative Learning • Participative Learning • Problem Solving Methods • Case Studies Outcomes: • Improved teaching-learning effectiveness • Faculty adoption of digital tools				
	Incubation Centre / MSME	Established Incubation Centre recognized by MSME as a Host Institute in 2022. Participated in various Ideathon and received funding for project support.				
		Year	No. of Proposals applied		Sanctioned Funded (Amount in Lakhs)	
		2023-24	21		01 – 4.10 Lakhs	
		2024-25	10		-	
		2025-26	40		02 – 23.5 Lakhs	
		2026-27	40			
	Value Added Courses to meet Industry Requirements	Various certificate/ value-added courses were organized in consultation with industry experts.				
		Year	2022-23	2023-24	2024-25	2025-26
		No. of VAC organized	19	20	23	14
	Outcomes: • Enhanced practical and industry-relevant skills among students. • Technical and professional competencies of the students enhanced.					
Inducting Alumni Chapters	Chennai Alumni Chapter was inaugurated in 2023. Conducted alumni interaction. The “One student to one Alumni” concept has been implemented to enhance the employability of students.					

		Year	2022-23	2023-24	2024-25	2025-26
		No. of Alumni Interaction programs	20	24	26	32
2023–24	NAAC Re-accreditation	Successful NAAC re-accreditation with A grade and CGPA of 3.12 in 2024 is valid up to 2027.				
	Technology Training Centre	Inaugurated Barani Technology Training Centre in 2024. Identified priority technology areas; Established required infrastructure; Engaging industry experts/trainers; Offers hands-on training to students and faculty. Improves students’ industry-oriented skills.				
		Year	2024-25	2025-26		
		No. of Students trained & benefitted through BTTC	122	145		
	Promoting Software Industry inside the Campus	Inaugurated Blues Infotech and Brillersys Software Solution. Students are trained through industry oriented Real time projects.				
	Applying for Autonomous Status	The Autonomous Status granted by UGC & Anna University in 2024 is valid up to 2029.				
	Initiation of Start-up	Sanctioned 22.5 Lakhs by Startup TN for incubating more Startup Industries. Identified promising student/ faculty ideas; Conducted entrepreneurship and business-model workshops.				
	AICTE Working Professionals Program	Approval process completed by AICTE for M.E.-CSE, M.E.-Applied Electronics & B.E.- ECE. Waiting for approval from Anna University.				
2024–25	Infrastructure with Separate Block	New Building established for Ladies Hostel.				
	Strengthening IPR Cell Activities	Conducted IPR awareness programmes. Provided guidance for Patent/ copyright. Established faculty/ student mentoring. Supported patent filing and commercialization. Increased patents/IPR filings and awareness.				

		Year	2022-23	2023-24	2024-25	2025-26
		No. of Patents filled and published	14	17	13	50
		No. of Patents design Certified	1	6	6	12
	Associating with Overseas University	International academic/ research collaboration established with Gambella University, Ethiopia Universitas Dhyana Pura, Bali National University of Laos (Nuol), Laos INTI International University, Malaysia The Durban University of Technology (DUT), South Africa Shinawatra University (Siu), Thailand. Outcomes: Student & Faculty Mobility programs, Organizing International Conference.				
	AU Research Centre Recognition	Research Centre recognition applied.				
	Applying NBA (EEE and MBA)	NBA Reaccreditation obtained for B.E – CSE and B.E - ECE from 2024 till 2027. NBA application submitted for B.E. - EEE, B.E. - Mechanical Engineering & B.Tech. – Fashion Technology.				
	Enriching Library Resources	Procured latest textbooks, reference books, e-resources, journals and databases; Strengthened digital library facilities. Improved availability and utilization of learning resources.				
	Overseas Employment Opportunities	Two students secured overseas placements Ms. Shivasri of ECE (Batch: 2026) got offer in Southern Automation, UAE & Mr. R. Jayavarman of AI & DS (Batch: 2026) got offer in Storeys, Dubai.				
2025–26	Hosting State-level Sports Events	Periammal Memorial Trophy events are conducted every year by inviting students from various districts. Planned to organize State-level events.				
	Faculty Qualification Upgradation	37 faculty members are pursuing their Ph.D. and 20 faculty members are working with a Ph.D. degree.				
	Starting New Departments	B. Tech. - Information Technology was established in 2024 with an intake of 60.				

8. STRATEGIC GOALS (2026-31)

Strategic Goal 1: Teaching, Learning and Outcome-Based Education

Goal	Present Status	Strategy	Responsibility	Expected Outcomes
Innovative Teaching Pedagogies	Innovative methods are being adopted by faculty across courses.	Increase the use of flipped classroom, PBL, collaborative learning, case studies and ICT-enabled teaching.	Principal, HoDs, Faculty	90% of courses to adopt at least one innovative pedagogy.
Outcome-Based Education (OBE)	COs, CO-PO mapping and attainment are practiced.	Strengthen CO formulation, mapping, assessment and attainment analysis.	IQAC, HoDs, Course Faculty	100% of courses to implement OBE practices with documented CO-PO mapping.
Continuous Assessment Practices	Internal assessments, assignments, quizzes and examinations are conducted.	Diversify assessment methods and provide timely feedback.	HoDs, Course Faculty	100% of courses to use at least 3 assessment methods.
CO Attainment	CO attainment is assessed and reviewed periodically.	Analyse attainment gaps and implement corrective measures.	HoDs, Course Faculty, IQAC	Achieve $\geq 75\%$ CO attainment across courses.
Program Outcome Attainment	PO attainment is monitored through direct and indirect assessment.	Strengthen mapping, gap analysis and action plans for low-attainment POs.	HoDs, Programme Assessment Committee	Achieve $\geq 75\%$ PO attainment with year-on-year improvement.
Academic Mentoring	Mentor-mentee system is implemented.	Conduct regular mentoring, academic counselling and individual progress tracking.	HoDs, Mentors	100% students covered under mentoring; minimum 4 regular meetings per semester in-addition with personal counselling.
Support for Slow and Advanced Learners	Slow and advanced learners are identified based on academic performance.	Conduct remedial classes, bridge courses, peer learning and	HoDs, Faculty, Mentors	100% identified learners to be provided with appropriate support; $\geq 15\%$

		advanced learning activities.		improvement in slow learners' performance.
Academic Performance Monitoring	Attendance, internal marks and academic results are periodically reviewed.	Implement systematic course-wise and student-wise performance analysis with corrective actions.	HoDs, Mentors, IQAC	100% courses reviewed every semester; $\geq 10\%$ reduction in academic failure/low-performance cases.
Continuous Improvement through Feedback	Feedback is collected from students and other stakeholders.	Analyse feedback and implement documented corrective and improvement measures.	IQAC, HoDs	$\geq 90\%$ feedback coverage and implementation.

Strategic Goal 2: Research, Innovation and Industry Connectivity

Parameter	Present Status	Strategy	Responsibility	Expected Outcomes
Quality Research Publications	Faculty are publishing research papers in reputed journals and conferences.	Encourage SCI/Scopus/WoS-indexed publications, Q1/Q2 journals and collaborative research.	Principal, HoDs, Faculty	15% annual increase in quality-indexed publications
Patents and Intellectual Property	Faculty and students are engaged in patent filing and IP activities.	Conduct IP awareness programmes and support patent drafting, filing and commercialization.	R&D Coordinators IPR Cell Faculty	≥ 20 patents filed annually and $\geq 10\%$ annual increase in granted patents.
Funded Research Projects	Faculty are applying for projects from government and external funding agencies.	Strengthen proposal development, interdisciplinary teams and industry-sponsored research.	R&D Coordinators Faculty	≥ 8 funded projects annually with 15% annual growth in external research funding.
Consultancy and Industry Projects	Consultancy and industry-supported activities are being undertaken.	Expand industry linkages and promote faculty expertise for consultancy and sponsored projects.	Principal, R&D Coordinators HoDs, Faculty	15% annual increase in consultancy revenue and ≥ 12 industry projects annually.

Centre of Excellence (CoE) Utilization	CoEs are available for training, projects and industry interaction.	Increase utilization through certifications, R&D, consultancy, internships and student projects.	Principal, CoE Coordinators, HoDs	$\geq 85\%$ utilization of CoE facilities with $\geq 75\%$ eligible students participating annually.
Interdisciplinary Research and Innovation	Interdepartmental research and project activities are being initiated.	Form interdisciplinary research groups and undertake multidisciplinary societal and industrial projects.	R&D Coordinators HoDs, Faculty	≥ 10 interdisciplinary projects annually involving at least 2 departments.
Incubation and Entrepreneurship	Innovation and startup activities are promoted through institutional initiatives.	Strengthen incubation, mentoring, prototype development, startup funding and industry mentoring.	IIC, Incubation Centre, Entrepreneurship Cell	≥ 8 ideas incubated annually, with ≥ 3 startups/prototypes developed or supported.
Industry-Oriented Problem Solving	Students undertake projects addressing selected industry and societal problems.	Establish industry problem statements, live projects, joint R&D and technology-transfer activities.	HoDs, Industry Interaction Cell, Project Coordinators	≥ 25 industry problem statements/projects annually, with $\geq 80\%$ successfully completed.

Strategic Goal 3: Collaboration, Global Exposure and Alumni Engagement

Parameter	Present Status	Strategy	Responsibility	Expected Outcomes
Industry Collaboration	MoUs, industrial visits, internships, training and industry interaction are being carried out.	Strengthen MoUs, joint projects, internships, consultancy and industry-supported activities.	Principal, HoDs, Industry Interaction Cell	≥ 50 active industry collaborations and 15% annual increase in industry-supported activities.
Foreign University Collaboration	Initial international academic interactions and collaborations are being explored.	Establish MoUs for joint research, faculty/student exchange, internships and international academic programmes.	Principal, Higher Education Cell, HoDs	≥ 5 active foreign university collaborations and ≥ 15 students/faculty participating in international academic activities annually.

Academic Institution Collaboration	Collaborations with universities and reputed institutions are in place for academic and research activities.	Expand joint research, FDPs, expert lectures, student projects and knowledge-sharing programmes.	Principal, R&D Coordinators, HoDs	≥15 active academic collaborations and ≥10 joint academic/research activities annually.
Professional Body Engagement	Faculty and students participate in professional society activities and technical events.	Increase memberships, certifications, conferences, seminars and professional development programmes.	HoDs, Professional Society Coordinators	≥80% faculty and 60% students associated with relevant professional bodies/ activities.
Alumni Engagement and Mentoring	Alumni participate in selected mentoring, placement and institutional activities.	Strengthen alumni network through mentoring, career guidance, internships, entrepreneurship and resource support.	Alumni Coordinator, HoDs, Placement Cell	≥70% active alumni engagement and ≥20 alumni-led activities annually.

Strategic Goal 4: Finance, Governance and Institutional Management

Parameter	Present Status	Strategy	Responsibility	Expected Outcomes – Quantitative Target
Financial Planning and Budgeting	Annual budget preparation and periodic expenditure monitoring are followed.	Prepare need-based budgets and review utilization against approved allocations.	Management, Principal, AO	100% annual budget preparation and ≥90% budget utilization with variance maintained within 10%.
Transparency and Accountability	Financial records, approvals and audits are maintained systematically.	Strengthen internal controls, documentation, periodic audits and compliance monitoring.	Principal, AO, Internal Audit Committee	100% financial transactions documented and 100% statutory/ internal audits completed as scheduled.
Resource Mobilization	Resources are generated through fees, consultancy, funded projects and institutional collaborations.	Diversify revenue sources through consultancy, sponsored projects, grants, alumni and	Management, Principal, R&D Coordinator, HoDs	15% annual increase in externally mobilized resources and ≥8 new funding/ industry sources annually.

		industry partnerships.		
Policy Implementation	Institutional policies are approved and implemented through defined procedures.	Periodically review policies, monitor compliance and incorporate stakeholder feedback.	Principal, IQAC, HoDs, Policy Committees	100% approved policies implemented and reviewed periodically.

Strategic Goal 5: Community Engagement and Social Responsibility

Parameter	Present Status	Strategy	Responsibility	Expected Outcomes
Community Service and Extension	Community outreach and extension activities are conducted periodically.	Expand service activities through regular village outreach, health, education and technology-based programmes.	NSS, HoDs	≥10 extension activities annually covering ≥500 beneficiaries.
NSS Initiatives	NSS units conduct camps, awareness programmes and social service activities.	Strengthen regular NSS activities, special camps and community-based projects.	NSS Programme Officers	100% NSS students to participate in at least one activity annually; ≥10 major activities/ year.
Environmental Sustainability	Environmental awareness, plantation and waste-management activities are undertaken.	Promote green campus practices, energy conservation, biodiversity and sustainable resource management.	Eco club Coordinators, NSS Students	≥10 environmental initiatives annually and 10% annual reduction in identified resource consumption.
Rural Development	Outreach activities are conducted in nearby rural communities.	Implement technology-enabled solutions, skill training, awareness and livelihood-oriented programmes.	NSS, HoDs	≥5 rural development programmes annually covering ≥200 beneficiaries.
Social Awareness	Awareness programmes on	Conduct regular awareness	NSS, HoDs	≥15 awareness programmes annually

	health, safety, education and social issues are organized.	campaigns in the institution and surrounding communities.		with $\geq 80\%$ student participation.
Value-Based Education	Ethics, social responsibility and professional values are incorporated through academic and co-curricular activities.	Strengthen value education through seminars, mentoring, community service and professional ethics programmes.	Principal, IQAC, HoDs, Mentors	100% students to participate in at least one value-based activity annually; $\geq 90\%$ positive feedback.

Strategic Goal 6: Quality Enhancement and Institutional Excellence

Parameter	Present Status	Strategy	Responsibility	Expected Outcomes
IQAC and Quality Audits	IQAC coordinates quality initiatives and periodic academic and administrative audits.	Strengthen internal audits, quality reviews and follow-up action plans.	IQAC, Principal, HoDs	100% departments audited annually and $\geq 90\%$ audit action points closed within the stipulated period.
Stakeholder Feedback and Data Analysis	Feedback is collected from students, faculty, alumni and other stakeholders.	Digitize feedback collection, strengthen analysis and implement evidence-based improvements.	IQAC, Feedback Committee, HoDs	$\geq 90\%$ stakeholder feedback coverage and $\geq 75\%$ feasible suggestions implemented annually.
OBE and Continuous Improvement	CO-PO mapping, attainment analysis and corrective actions are practiced.	Strengthen OBE documentation, attainment analysis, gap identification and continuous improvement measures.	IQAC, HoDs, Programme Assessment Committee	100% programmes to follow OBE practices and $\geq 75\%$ CO/PO attainment.
Accreditation and Ranking Preparedness	Institutional data and documentation are maintained for accreditation and ranking processes.	Establish annual data review, gap analysis and compliance monitoring for NAAC, NBA and other frameworks.	Principal, IQAC, Accreditation & Ranking Committee	100% required data and supporting documents updated annually and 100% scheduled submissions completed on time.

Strategic Goal 7: Infrastructure and Smart Campus Development

Parameter	Present Status	Strategy	Responsibility	Expected Outcomes
Modern Academic Infrastructure	Classrooms, laboratories and library facilities are available with modern academic resources.	Upgrade classrooms, laboratories, library resources and student amenities based on academic requirements.	Management, Principal, HoDs, Maintenance Committee	100% academic facilities upgraded as per identified needs; $\geq 90\%$ user satisfaction.
Research and CoE Facilities	Research laboratories and Centres of Excellence are functional for academic and industry-oriented activities.	Upgrade equipment, expand industry collaboration and increase utilization for R&D, projects and training.	R&D Coordinators, CoE Coordinators, HoDs	$\geq 85\%$ utilization of CoE facilities and 15% annual increase in research/industry projects.
Digital and Smart Campus	ICT-enabled classrooms, digital learning resources and campus systems are available.	Expand smart classrooms, digital services, campus automation and integrated ICT facilities.	Principal, IT Cell, HoDs	100% classrooms ICT-enabled and $\geq 90\%$ institutional services supported through digital systems.
Green and Sustainable Campus	Green practices, waste management and energy conservation measures are implemented.	Expand renewable energy, rainwater harvesting, waste segregation, energy-efficient systems and green initiatives.	Eco Club Coordinators, Maintenance	$\geq 20\%$ reduction in conventional energy/resource consumption and 100% waste segregation across campus.

Strategic Goal 8: Skill Development and Professional Excellence for Faculty and Students

Parameter	Present Status	Strategy	Responsibility	Expected Outcomes
Faculty Development Programmes (FDPs)	Faculty participate in FDPs, workshops and training programmes.	Organize and encourage FDPs on pedagogy, OBE, research and emerging technologies.	Principal, IQAC, HoDs	$\geq 90\%$ faculty to participate in at least 2 FDPs annually.

Internships and Industrial Training	Students undertake internships and industrial training through institutional and industry linkages.	Strengthen industry partnerships and facilitate quality internships aligned with students' disciplines.	HoDs, Training & Placement Cell	≥95% eligible students to complete internships/ industrial training annually.
Emerging Technology Training	Training programmes on emerging technologies are conducted periodically.	Expand hands-on training in AI, IoT, robotics, data science, VLSI and other emerging areas.	HoDs, CoE Coordinator s, Skill Development Cell	≥85% students and 75% faculty to undergo at least one emerging-technology programme annually.
Communication and Leadership Skills	Soft-skill, communication and leadership programmes are conducted.	Implement structured training through workshops, presentations, group activities and leadership programmes.	HoDs, Training & Placement Cell, Student Development Cell	≥90% students to participate in communication and leadership programmes; ≥15% improvement in assessment scores.
Career Guidance and Placement Readiness	Career guidance, aptitude and placement training are provided.	Strengthen aptitude, technical, interview, resume and industry-readiness training.	Training & Placement Cell, HoDs	100% final-year students to receive career guidance; ≥85% placement readiness based on internal assessment.
Higher Education and Competitive Examinations	Guidance is provided for GATE, competitive examinations and higher studies.	Conduct structured coaching, counselling & expert sessions.	HoDs, Higher Education Cell, Faculty Mentors	≥100% interested students to participate in higher-education/ competitive-exam preparation; 10% annual increase in qualified students.
Lifelong Learning and Continuous Skill Development	Continuous learning opportunities are provided through workshops, certifications and online courses.	Promote MOOCs, certifications, refresher programmes, seminars and self-learning initiatives.	IQAC, HoDs, Skill Development Cell	≥80% faculty and students to complete at least one continuous learning activity annually.

9. STRATEGIC PLAN OF ACTIVITIES (2026 – 2031)

Academic year	Plan of Activities
2026–27	- Pursue NBA Accreditation for EEE, Mech and FT - Establish a structured innovation and start-up ecosystem - Every year strengthen and oversee student placement activities. - Enhance research and institutional funding. - Introduce the Student of the Month & Faculty of the Semester Award. - One publication per faculty and one funded project per department - Strengthen consultancy activities and promote patent publications and grants. - Every year strengthen autonomous evaluation, assessment and examination systems - All capstone projects into Scopus or patent publications
2027–28	- Enhancing the quantity and quality of admissions and from all regions of Tamilnadu - Establishing an innovative curriculum with industry supported courses. - Establish an Anna University-approved Research Centre in the EEE Department. - Pursue NBA Accreditation for ECE, CSE and AI & DS. - Establish academic and research collaborations with reputed foreign institutions - Strengthen consultancy activities and one patent grant per department per year. - At least one publication per faculty member, (30% in SCI- and 70% in Scopus), and a minimum of one funded research project worth ₹2 lakhs per department - Establishing Industry-sponsored laboratories - Developing quality e-learning resources for at least 20% of the courses by all departments. - Establish a structured institutional roadmap for NIRF active participation
2028–29	- Enhancing the quality of admissions and from all regions of Tamilnadu and every year increase at least 2 % of admissions from other states. - Apply for NAAC Reaccreditation & strengthen institutional accreditation status. - Encourage student and faculty participation in global competitions. - Organize an International Conference and strengthen academic networking. - Initiate and establish peer-reviewed research journal at JSREC.

	• Developing quality e-learning resources for at least 50% of the courses by all departments • Practicing the structured NIRF participation to improve the score • Establish an Anna University-approved Research Centre in the ECE and Mechanical department.
2029-30	• Developing quality e-learning resources for at least 75% of the courses by all departments • Offer joint certification programmes with professional bodies and industries • Establish a laboratory through CSIR or other competitive funding • Promote joint publications and collaborative projects with foreign universities • Strengthen institutional seed funding for student and faculty research projects
2030-31	• Introduce research-oriented courses and strengthen research training across all departments • Developing quality e-learning resources for at least 50% of the courses by all departments • Ensure qualified research supervisors and strengthen Ph.D. research capacity • Establish one Centre of Excellence in each department with outcomes • Strengthen interdisciplinary research, industry projects and measurable societal impact


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