

College Profile: Jaya Engineering College (TNEA Code: 1106)

1. Institutional Identity

In the Tamil Nadu Engineering Admissions (TNEA) framework, an institution's formal identity—defined by its unique TNEA code and university affiliation—is the primary metric for regulatory validation. These identifiers ensure that the institution operates within the centralized single-window counseling system, providing parents and students with a transparent pathway for seat allocation and fee standardization.

Field	Details
Full Name	Jaya Engineering College
Short Name	JEC Chennai
TNEA Code	1106
Institution Type	Self-Financing / Telugu Linguistic Minority
Location	CTH Road, Prakash Nagar, Thiruninravur, Thiruvallur District
Year of Establishment	1995
Affiliated University	Anna University, Chennai

Admission Routes	TNEA Government Quota (65%) / Management Quota (35%)
Gender Profile	Co-educational

The institution's operational history is anchored in the development of its managing trust and its long-term integration into the regional educational infrastructure.

2. Founding and Institutional Heritage

Educational trusts have been instrumental in addressing regional educational deficits within the North-Western Chennai corridor and the Thiruvallur district. By establishing technical institutions in suburban industrial hubs, these organizations provide the necessary human capital to meet the technical demands of the Chennai metropolitan area.

Jaya Engineering College was established in 1995 by the Jaya Educational Trust, which has been active in the regional educational sector since the late 1970s. The trust's primary objective is to increase social access to technical education and promote technological innovation. The administration is led by Chairman Prof. A. Kanagaraj, Secretary and Managing Trustee Mrs. K. Vijayakumari, and Vice Chairman Mr. K. Navaraj. Key institutional milestones include obtaining ISO 9001:2000 certification and securing permanent affiliation from Anna University.

As the flagship campus of the Jaya Group of Institutions, the college has scaled its infrastructure and program offerings consistently over a 30-year period. This longevity has established the campus as a stable entity within the state's technical education ecosystem, providing a transition to its current regulatory standing.

3. Regulatory Status & Accreditations

NAAC grades and AICTE approvals serve as critical benchmarks for institutional quality, ensuring that degrees remain valid for professional practice and advanced academic pursuits. These external audits evaluate the efficiency of academic delivery, governance, and infrastructure against national standards.

Jaya Engineering College is a non-autonomous, affiliated institution. Its current quality standing is verified by the following NAAC credentials:

- **Grade:** B+
- **CGPA:** 2.70
- **Validity Period:** June 14, 2022, to June 13, 2027

These metrics confirm the institution's adherence to national quality standards through the middle of the current decade. Program-specific quality is further delineated by specialized technical accreditations.

4. NBA Accredited Programs

National Board of Accreditation (NBA) status is a significant technical differentiator for engineering branches, signaling alignment with global professional standards. Graduation from an NBA-accredited program facilitates international degree recognition and enhances graduate employability in highly regulated sectors.

Program	Validity
Computer Science and Engineering	June 2027
Textile Technology	June 2027

The concentration of accreditation in these specific departments highlights the institution's core technical strengths, which are also reflected in national assessment frameworks.

5. National and Regional Rankings

The National Institutional Ranking Framework (NIRF) provides an objective, data-driven assessment of teaching, research, and graduation outcomes. Verifying institutional performance through these official channels is essential for distinguishing between marketing claims and actual academic output.

For the 2024 and 2025 cycles, Jaya Engineering College participated in the NIRF process under the "Overall" category (ID: IR-O-C-16577). While the institution maintains the transparency required for national evaluation, it did not secure a published rank in the Engineering category for either year. From a technical admissions perspective, the institution functions as a regional Tier-2/Tier-3 alternative that offers a value-driven education when compared to its high placement rates and academic offerings.

6. Undergraduate Programs (B.E. / B.Tech)

The engineering sector is currently transitioning from traditional core disciplines toward integrated, specialized technologies. This shift requires institutions to adopt "new-age"

curricula that address the requirements of Industry 4.0, including artificial intelligence and advanced automation.

The following programs are sanctioned for the 2025–26 academic year:

Branch Name	TNEA Code	Sanctioned Intake	New-age Branch Flag
Computer Science and Engineering (AI & ML)	AM	30	Yes (Launched 2024)
Computer and Communication Engineering	CO	30	Yes (Launched 2024)
Robotics and Automation	RM	30	Yes (Launched 2024)
Computer Science and Business Systems	CB	30	Yes (Launched 2023)
Aeronautical Engineering	AE	30	
Civil Engineering	CE	30	
Computer Science and Engineering	CS	120	
Electrical and Electronics Engineering	EE	60	
Electronics and Communication Engineering	EC	60	

Electronics and Instrumentation Engineering	EI	30	
Mechanical Engineering	ME	30	
Information Technology	IT	120	
Textile Technology	TX	40	

The college has demonstrated a rapid pivot toward modernization by adding four new-age branches in the last two academic cycles. These programs are supported by a structured faculty hierarchy.

7. Faculty Composition and Academic Leadership

The quality of technical instruction is directly linked to faculty stability and research engagement. A low student-to-faculty ratio and active contributions to high-impact scientific journals are indicators of high instructional intensity and institutional leadership.

The college employs approximately 186 full-time teaching staff, maintaining a student-faculty ratio of approximately 5:1. Academic leadership is directed by Principal Dr. V. Suresh Kumar and Dean (Research) Dr. M. Somasundaram. Institutional research capability is evidenced by Dr. Suresh Kumar's publications in Nature's *Scientific Reports* and Dr. Somasundaram's leadership in the National Conference on Advanced Technology in Computer Application (NCATCA 2024). This academic framework supports the campus infrastructure.

8. Infrastructure: Hostel and Transportation

Logistical efficiency is a critical factor for students within the Chennai metropolitan area. Proximity to transit networks and the availability of on-campus housing directly influence a student's academic focus and daily safety.

- **Residential Facilities:** Separate hostels are maintained for boys and girls, providing basic residential amenities, study environments, and mess facilities.
- **Library and Digital Resources:** The central library contains 40,000+ volumes (46,368 copies). Digital access is provided through DELNET, NDL, and e-Shodhganga to facilitate research.

- **Transportation Network:** The institution operates a fleet of 35 buses covering a 50km radius, serving areas such as Anna Nagar, Adyar, Poonamallee, and Perambur.
- **Connectivity:** The campus is uniquely positioned near the Thiruninravur and Nemilichery railway stations on the Chennai–Arakkonam suburban line, providing high-speed rail access for day scholars.

This infrastructure is complemented by financial frameworks designed to ensure equitable access to education.

9. Scholarships and Financial Access

State-sponsored financial aid facilitates socioeconomic diversity by reducing the cost barriers associated with engineering degrees. These schemes allow eligible students to pursue professional education through established government welfare programs.

The following schemes are available to eligible students at this institution:

- BC/MBC Scholarship (State Social Justice and Welfare Department)
- SC/ST/SCC Post-Matric Scholarships (Adi Dravidar and Tribal Welfare Department)
- Minority Scholarship (Central/State schemes)
- First Graduate Scholarship (Government of Tamil Nadu)

These financial pathways are designed to lead students toward successful career outcomes.

10. Career Outcomes and Placement Metrics

The employment landscape for engineering graduates remains focused on IT/ITES sectors, with emerging demand in core sectors like automotive and textile manufacturing.

Placement outcomes for the 2023-24 batch reached 95%, with overall historical outcomes for recent cohorts ranging between 80% and 95%.

- **Median Salary Range:** B.E./B.Tech graduates typically secure salaries between 2.6 LPA and 3.0 LPA.

Representative Recruiters:

- **IT / ITES:** Infosys, Cognizant, Wipro, Mphasis, Hexaware Technologies, Sutherland Global Services.
- **Core Engineering:** Ashok Leyland, Renault Nissan, Toyota Kirloskar, Lucas-TVS, Mahindra & Mahindra, L&T, Coats India, KG Denim.

Note: All figures are self-reported by the institution.

The foundations for these outcomes are established within specialized research and innovation centers.

11. Research, Innovation, and Centres of Excellence

Centres of Excellence (CoEs) function as technical bridges between academic theory and industry application. These labs provide the infrastructure necessary for students to gain hands-on experience with emerging technologies.

The institution has established the following CoEs:

- **AI & Data Science**
- **Textile Innovation**
- **eYantra / Robotics (Collaborative initiative with IIT Bombay)**
- **Cyber Security and Full Stack Engineering**
- **3D Printing**

Research activities are supported by grants from the Tamil Nadu State Council for Science and Technology (TNSCST), AICTE, and Anna University. The college also provides consultancy services in material testing and software development for Chennai-based engineering firms.

12. Institutional Achievements and Distinctions

Institutional competence is validated through competitive grants and success in national hackathons, signaling a high level of practical technical proficiency.

Notable accolades include:

- **MSME Idea Hackathon 4.0 (2024):** Ms. Mrityunjya (CSE) received 15 lakhs in funding for project development.
- **eYantra Lab:** Recognition as a regional center for Embedded Systems and Robotics under the national initiative supported by the Ministry of Education.
- **TNSCST Grants:** Awards for student projects in 2018-19, including research into smart soldier protection suits.

These distinctions are reflected in the career trajectories of the college's alumni.

13. Notable Alumni

An active alumni network provides current students with industry mentorship and established professional pathways into global corporations.

Name	Graduation Period	Achievement / Career Path
Vignesh	2008–2011	Senior Aircraft Technician, KLM Royal Dutch Airlines
Unnamed (Gold Medalist)	2008–2012	Anna University 1st Rank; Technical Author/Mentor at Boeing India
B. Madhan Kumar	2011–2015	Doctoral Researcher at IIT Madras; National Talent Contest Winner
Chandra Paul	2016–2017	Successful transition into the Aerospace industry

Information sourced from the college's official website, TNEA portal, and government data sources as available at time of preparation. Details may change — verify with official portals and the college website before making admission decisions. Explore more engineering colleges at profsam.com — your trusted guide for 12th to engineering admissions." Article Researched & Curated by profsam.com | Engineering சேருங்க Season 1

Profsam.com