

Institutional Profile: SAMS College of Engineering and Technology (TNEA Code: 1124)

1. Institutional Identity and Administrative Framework

From an auditing perspective, the foundational identity of an engineering institution is defined by its regulatory alignment and its position within the state's centralized admission framework. For candidates navigating the Tamil Nadu Engineering Admissions (TNEA) process, the TNEA code (1124) and affiliation with Anna University serve as the primary indicators of operational legitimacy. These markers ensure that the curriculum, examination protocols, and degree-granting procedures adhere to the standardized technical education norms established by the Government of Tamil Nadu.

Field	Institutional Details
Full Name	SAMS College of Engineering and Technology
Short Name	SAMS Engineering
TNEA Code	1124
Institution Type	Self-Financing
City	Panapakkam, Thiruvallur
Year Established	2006
Affiliated University	Anna University, Chennai
Admission Route	65% Govt Quota / 35% Mgmt Quota
Gender Profile	Co-educational

The administrative structure follows the standard self-financing model, with seat allocation split between government and management quotas. This framework indicates an institutional transition from its specialized origins into a broader technical education provider within the regional ecosystem.

2. Founding History and Institutional Heritage

The heritage of an institution, particularly the background of its founding management, often dictates its specialized academic focus and long-term operational stability. Understanding the origins of a college provides insight into the industrial networks and specialized infrastructure available to the student body.

SAMS College of Engineering and Technology was established in 2006 under the Southern Academy of Maritime Studies. The institution is situated on a 14-acre campus in Panapakkam, Thiruvallur district, located along National Highway 5 (Chennai–Tirupathi Road). While the founding body originally focused on maritime training, the college has evolved to provide full-scale B.E. and B.Tech programs. The development of the Panapakkam campus marks a strategic effort to provide technical education access within the Thiruvallur industrial corridor. The mission of the founding body remains centered on technical proficiency, transitioning the institution from a niche training center to a multi-disciplinary engineering college.

3. Regulatory Status and AICTE Approval

For TNEA 2026 aspirants, regulatory compliance is the most critical metric for ensuring degree validity and eligibility for professional practice. All India Council for Technical Education (AICTE) approval is the mandatory baseline requirement for any engineering program to be recognized by government bodies and industrial employers.

The institution maintains active AICTE approval for the Academic Year 2025-26. According to official records, the total AICTE-approved undergraduate intake is 250 seats across all branches. The institution operates under the direct oversight of Anna University, which governs the academic curriculum and examination standards. These regulatory markers confirm the college's standing within the approved list of technical institutions in Tamil Nadu, facilitating student eligibility for state-level placements and higher education.

4. Undergraduate Engineering Programs (TNEA 2026)

Branch selection requires a strategic evaluation of legacy engineering fields versus the evolving landscape of computing and automation. The current program distribution at SAMS reveals a significant institutional pivot toward new-age technologies.

Branch Name	Branch Code	Approved Intake	Year Started
B.E. Marine Engineering	MR	40	2006
B.E. Mechanical Engineering	ME	30	2008
B.E. Aeronautical Engineering	AE	30	2023
B.E. Computer Science and Engineering	CS	30	2023
B.Tech Artificial Intelligence and Data Science	AD	30	2023
B.E. Computer and Communication Engineering	CO	30	2023

B.E. Computer Science and Engineering (Cyber Security)	SC	30	2023
B.E. Artificial Intelligence and Machine Learning	AM	30	2023

New-Age Branches (2018+):

- B.Tech Artificial Intelligence and Data Science
- B.E. Computer and Communication Engineering
- B.E. Computer Science and Engineering (Cyber Security)
- B.E. Artificial Intelligence and Machine Learning

Note on Marine Engineering: The B.E. Marine Engineering program requires mandatory approval from the **Directorate General of Shipping (DG Shipping)**, Ministry of Shipping, Government of India, in addition to AICTE approval.

A seat-density audit reveals that 150 of the 250 available seats (60% of total intake) are now dedicated to computing and AI branches introduced in 2023. This represents a massive academic shift from the college's legacy focus on Maritime and Mechanical engineering toward a computer-centric education model.

5. Campus Infrastructure and Residential Facilities

Adequate campus infrastructure and secure housing are essential for technical education, particularly for outstation candidates who require a controlled environment for laboratory-intensive study.

- **14-Acre Campus:** The physical infrastructure is distributed across a 14-acre site along NH 5.
- **Residential Facilities:** Separate hostels are provided for boys and girls. For the boys' hostel, the current facility consists of standard non-AC rooms.
- **Laboratories and Workshops:** Specialized laboratory facilities are available to support the respective engineering branches, including legacy workshops for mechanical and marine programs.
- **Library and Digital Resources:** The library provides access to printed and digital resources for student research.
- **Sports Facilities:** Provisions for both indoor and outdoor games are available on campus.

The available infrastructure provides the baseline requirements for a residential technical program, with the non-AC housing options reflecting the standard facilities for a self-financing institution in this region.

6. Transport and Regional Connectivity

Logistical access is a primary consideration for day scholars traveling from the Chennai and Thiruvallur districts. Given the semi-urban location of the campus, connectivity is largely road-dependent.

The campus is located on National Highway 5 (Chennai–Tirupathi Road). The nearest major rail link is the **Tiruvallur Railway Station**, which is situated approximately 25 km from the college. To facilitate student access, the institution operates transport facilities covering various routes in Chennai and nearby towns within the Thiruvallur district. This connectivity landscape indicates that while rail access is distal, the institutional bus network and highway proximity serve as the primary transit routes for local students.

7. Scholarship Framework and Financial Access

Financial aid access is a critical component of institutional auditor evaluations, as it directly impacts the affordability of professional education. Access to government-mandated scholarships ensures that engineering education remains reachable for eligible socio-economic groups.

The following government scholarship schemes are applicable to eligible students:

- **SC/ST Tuition Fee Scholarship:** Available for Scheduled Caste and Scheduled Tribe students.
- **BC/MBC/DNC Scholarship:** Available for Backward Classes, Most Backward Classes, and Denotified Communities.
- **First Graduate Scholarship:** Targeted at students who are the first in their family to pursue a professional degree.
- **Minority Scholarship:** Available to eligible minority students per government norms.

The college also reports providing **institutional merit-based concessions** for high-performing students. These financial support structures are categorized into government-mandated social aid and internal merit-based performance rewards.

8. Closing Mandatory Information

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.

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