

# Adhiparasakthi Engineering College (TNEA 1401): A Comprehensive 2026 Profile for Engineering Aspirants

## 1. Institutional Identity and Administrative Framework

Adhiparasakthi Engineering College (APEC) holds a distinctive position within the Tamil Nadu Engineering Admissions (TNEA) ecosystem. Identified by TNEA code 1401, the institution represents a stable choice for aspirants seeking the reliability of a long-established self-financing college in the Chengalpattu district. Its affiliation with Anna University ensures a standardized academic rigor, while its non-minority, co-educational status allows it to serve a broad demographic. From a strategist's perspective, APEC's identity is defined by its ability to balance spiritual heritage with modern administrative transparency, making it a "safe-bet" institution for students prioritizing institutional longevity.

### Identity Matrix

Field	Details
<b>Full Name</b>	Adhiparasakthi Engineering College
<b>Short Name</b>	APEC, Melmaruvathur
<b>TNEA Code</b>	1401
<b>Institution Type</b>	Self-Financing (Non-minority)
<b>City/District</b>	Melmaruvathur, Chengalpattu
<b>Year of Establishment</b>	1984
<b>Affiliated University</b>	Anna University, Chennai
<b>Admission Route</b>	TNEA (Government Quota) + Management Quota
<b>Gender Profile</b>	Co-educational

This administrative framework is anchored by a foundational mission that has transformed Melmaruvathur from a spiritual destination into a hub for technical education.

## 2. Institutional Heritage and Founding Mission

The college's location in Melmaruvathur is strategically significant. Established in 1984 under the Adhiparasakthi Charitable, Medical, Educational and Cultural (ACMEC) Trust (founded in 1978), the college was a pioneering effort to bring high-quality technical education to rural and semi-urban populations. Under the spiritual leadership of His Holiness Arulthiru Bangaru

Adigalar, the institution operates on a value-based framework. For a 2026 aspirant, this heritage signifies an education that is not purely transactional but is designed to produce socially responsible engineers capable of addressing sustainable technologies. This "service-first" mission remains central to the college's governance today, led by the ACMEC Trust leadership.

As we move from the institution's historical roots to its current performance, its commitment to quality is validated through rigorous national benchmarks.

### 3. Regulatory Accreditation: NAAC Status

For an admissions seeker, the NAAC grade is the most reliable proxy for quality in a self-financing institution. APEC's current standing with a NAAC 'A' grade and a CGPA of 3.05 places it in the upper tier of engineering colleges within the 1400–1500 TNEA code range. This external validation confirms that the teaching-learning processes, infrastructure, and student support systems meet high national standards.

#### Accreditation Details

- **NAAC Grade:** A
- **CGPA:** 3.05
- **Cycle:** 1
- **Year of Assessment:** 2025
- **Current Status:** Accredited and valid for the 2026 admission cycle.

This institutional quality is further tested through its consistent participation in national ranking frameworks, highlighting a culture of transparency.

### 4. National Institutional Ranking Framework (NIRF) Participation

APEC demonstrates institutional maturity by voluntarily participating in the National Institutional Ranking Framework (NIRF). While the college has not yet secured a published rank band, its commitment to reporting data across Engineering, Management, and Overall categories is a positive signal for students. It indicates a management willing to benchmark its progress against the nation's elite institutions (Institute ID: IR-O-C-16487), ensuring that institutional growth is measured by standardized metrics.

#### Ranking Data

- **NIRF 2024 & 2025 Participation:** Engineering, Overall, and Management categories.
- **Current Status:** Participated; no published rank band secured for the 2024 or 2025 cycles.

While national metrics offer a high-level view, the specific academic avenues available to students define their immediate career trajectory.

### 5. Undergraduate Engineering Programs (TNEA 2026)

The department portfolio at APEC is a calculated mix of traditional core branches and modern specializations. Notably, the introduction of Agricultural Engineering in 2025 serves as a strategic bridge between the college's rural heritage and modern technology, offering students unique opportunities in the burgeoning agritech sector. The recent expansion into AI and Computer System Design ensures that the college remains competitive in the 2026 global job market.

#### Academic Inventory (TNEA 2025/2026 Reference)

S.No	Branch Name	Branch Code	Approved Intake
1	B.E. Civil Engineering	CE	60
2	B.E. Mechanical Engineering	ME	60
3	B.E. Electrical and Electronics Engineering	EE	60
4	B.E. Electronics and Communication Engineering	EC	90
5	B.E. Computer Science and Engineering	CS	90
6	B.Tech. Information Technology	IT	60
7	B.Tech. Chemical Engineering	CH	40
8	B.E. Computer Science and Engineering (AI & ML)	AM	30
9	B.E. Computer Science and Engineering (Computer System Design)	CD	60
10	B.Tech. Agricultural Engineering	AG	60
<b>Total</b>			<b>610</b>

#### Specialized Analysis: New-Age Branches (2018+)

- **B.E. CSE (AI & ML):** Started in 2023; focuses on intelligent systems.
- **B.E. CSE (Computer System Design):** Started in 2025; addresses hardware-software architectural needs.
- **B.Tech. Agricultural Engineering:** Started in 2025; a high-growth branch for those interested in sustainable food systems and rural tech modernization.

The successful delivery of this diverse curriculum is supported by a faculty bench that balances administrative experience with specialized research.

## 6. Faculty Profile and Academic Leadership

A college's academic strength is best measured by its "Ph.D. density." APEC reports 30 faculty members who have completed their doctoral degrees, many of whom serve as active research supervisors. For a student, this means access to mentors who are contributors to their fields, not just instructors.

### Academic Leadership and Key Experts

- **Leadership:** Directed by Dr. J. Raja (Principal) and Dr. V. Ramasamy (Dean), both recognized for coordinating research scholars.
- **Depth of Expertise:** Beyond administration, the college features high-level specialists like **Dr. S. Jayashri** (ECE), known for substantial Ph.D. completions, and **Dr. N. Pappayee**, who leads research in advanced nanoscience (liposomes). **Dr. M. Kannan** (Mechanical) further strengthens the technical bench through AICTE-funded research initiatives.
- **Research Legacy:** This team has facilitated the awarding of 79 Ph.D. degrees, proving a sustained ecosystem of high-level academic inquiry.

Once the academic foundation is established, the physical environment must support the daily rigors of an engineering program.

## 7. Campus Logistics: Hostels and Transportation

Logistics are often the deciding factor in student success. APEC offers a massive strategic advantage with its proximity (3 km) to the Melmaruvathur railway station. For students from Chennai or Villupuram, this provides a reliable, low-cost alternative to the college bus system, which is essential for attending late-evening lab sessions or early-morning projects.

### Logistics and Facilities Summary

- **Residential Strength:** Permanent separate hostels for boys and girls provide stability. The mess is notable for offering both vegetarian and non-vegetarian options.
- **The Library Block:** A major asset is the dedicated **4,000 sq.m two-storey library block**, housing over 56,000 volumes and extensive digital subscriptions (IEEE, ScienceDirect, ASCE).
- **Transport Network:** A fleet of 10 buses serves a 90 km radius covering Chennai (Tambaram/Kathipara), Kanchipuram, and Pondicherry, with arrivals timed for 8:40 AM.

While logistics provide physical access, the institution's scholarship programs ensure financial barriers do not prevent enrollment.

## 8. Scholarships and Financial Access

APEC facilitates social mobility by blending government support with philanthropic trust-based aid. This dual approach significantly reduces the net cost of education for merit-based and economically disadvantaged students.

### Financial Aid Categories

1. **Government Mandates:** Full tuition-fee concessions for SC/ST students, First-Generation Graduate waivers, and Merit-cum-Means scholarships for minority students are strictly implemented.
2. **Institutional Awards:**
  - **Arulthiru Amma Scholarship:** Awarded by the ACMEC Trust to high-cutoff achievers.
  - **"Lead to Serve... Wings to Your Dreams" Scholarship:** An annual award from the USA Sakthi Peedam of North America for students exhibiting leadership and academic excellence.

These financial supports are ultimately intended to foster a culture of research and innovation among the student body.

## 9. Research Infrastructure and Innovation Ecosystem

What distinguishes APEC from many of its peers in the 1401 code range is its ability to secure external funding for undergraduate-level innovation. Students are not limited to theoretical study; they are encouraged to pursue projects funded by agencies like TNSCST and IEDC-DST.

### Research Framework

- **Recognized Centers:** Four Anna University-approved research centers (Civil, Mechanical, EEE, ECE).
- **Funding Bodies:** The college secures grants from AICTE, DST, CSIR, and DRDO for projects in renewable energy, wireless sensor networks, and civil infrastructure.
- **Undergraduate Innovation:** APEC consistently receives student project grants from the Tamil Nadu State Council for Science and Technology (TNSCST), particularly in sustainable and environmental engineering.

This research maturity culminates in international recognition and institutional milestones.

## 10. Institutional Achievements and Distinctions

The college has established its presence on the global academic map through high-level conferences and laboratory modernization. These distinctions serve as proof of the institution's commitment to remaining current with industry standards.

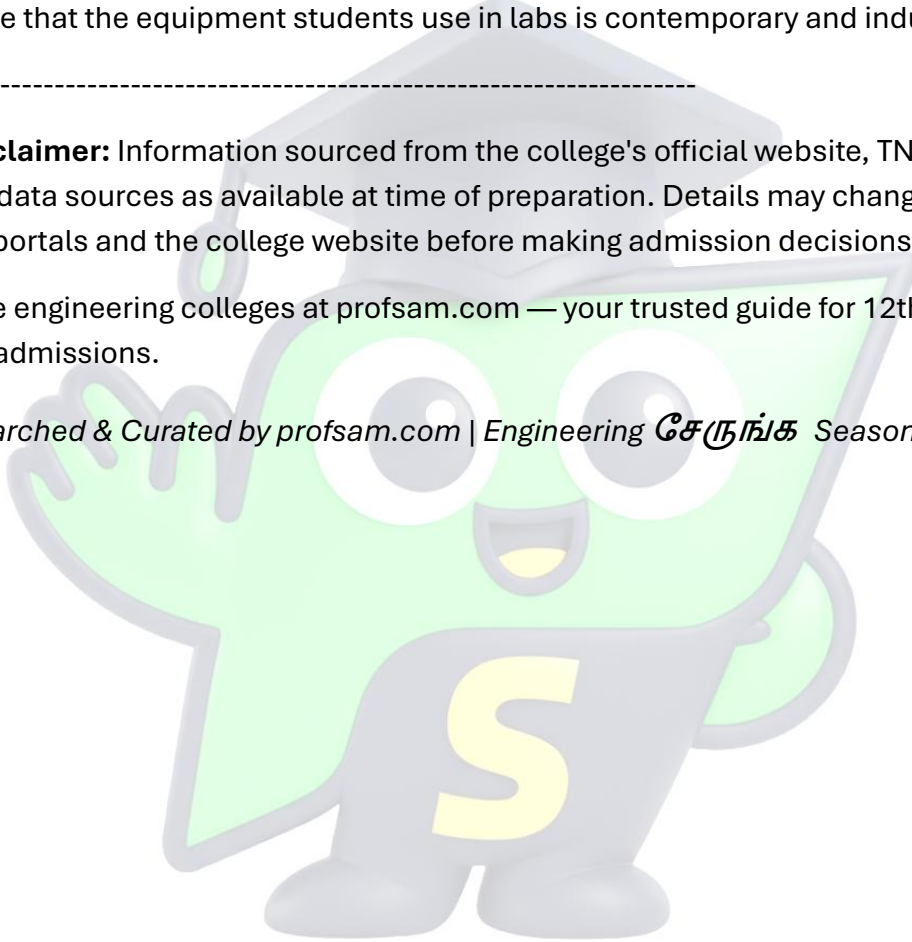
## Milestone Record

- **ICCSP Conference Series:** The college has successfully hosted the International Conference on Communication and Signal Processing since 2012. The **ICCSP'26**, technically sponsored by IEEE, is scheduled for April 2026.
- **Lab Modernization:** Multiple AICTE MODROBS (Modernization and Removal of Obsolescence) and RPS (Research Promotion Scheme) grants have been secured to ensure that the equipment students use in labs is contemporary and industry-aligned.

**Closing Disclaimer:** 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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