

Profile of University Departments of Anna University, Chennai — CEG Campus (TNEA Code 1)

1. Institutional Identity and Admission Framework

The College of Engineering Guindy (CEG) serves as the definitive benchmark for technical education in Tamil Nadu. Holding the prestigious "TNEA Code 1," CEG is the primary choice for the state's highest-ranking students, typically requiring the near-perfect cut-off marks that define the peak of the merit hierarchy. As the flagship campus of Anna University, it operates on a strictly merit-based admission framework. All seats are filled through the 100% university quota, ensuring a transparent entry process with no provisions for management or NRI quotas, reinforcing its status as the most competitive engineering destination in the region.

Core Institutional Identity

Field	Details
Full Name	University Departments of Anna University, Chennai — CEG Campus
Short Name	CEG
TNEA Code	1
Institution Type	University Department (Constituent Campus)
Admission Route	TNEA (100% University Quota; No Management Quota)
Gender Profile	Co-educational
Affiliated University	Anna University, Chennai

This institutional identity is the product of a rich historical evolution that has shaped the landscape of Indian engineering for over two centuries.

2. Institutional Heritage and Historical Milestones

For a TNEA aspirant, an institution's heritage is a guarantee of academic stability and long-term industry credibility. A legacy spanning centuries ensures a massive, influential alumni network and deeply entrenched industrial partnerships, providing a robust placement ecosystem and a curriculum that has successfully adapted to every major technological shift since the 18th century.

Founding Story & Institutional Heritage

- **Founder:** Established by the British colonial government in Madras.
- **Trust:** Government of Tamil Nadu (Anna University is a State Public University).
- **Stated Mission:** To provide technical and engineering education relevant to societal and industrial needs, and to foster cooperation between academic and industrial communities.

Key Milestones

- **1794:** Established as a Survey School by the British Government in Madras.
- **1859:** Renamed as Civil Engineering College.

- **1978:** Anna University was established, integrating CEG as an autonomous constituent campus.
- **2009:** Successful launch of the ANUSAT microsatellite under ISRO guidance.
- **2023:** NAAC accreditation renewed at the elite A++ grade.

Notable 'First' Claims CEG is officially recognized as India's oldest engineering institution. It also maintains a significant technological lead as the first university in India to design, build, and launch its own microsatellite, ANUSAT.

This heritage provides the foundation for the university's elite regulatory standing and its consistent achievement of national quality benchmarks.

3. Regulatory Standing and Quality Benchmarks

National accreditations like AICTE and NAAC serve as a critical safety net for students, ensuring that the institution maintains rigorous standards in faculty qualification, infrastructure, and pedagogical quality. For a State Public University, these benchmarks validate that the degree earned carries the highest level of national and international recognition.

- **AICTE Approval:** All programs at the CEG campus are fully approved for the Academic Year 2025-26.
- **NAAC Accreditation:**
 - **Grade:** A++
 - **CGPA:** 3.54 out of 4.00
 - **Validity:** Valid until August 2030 (exceeding the March 2026 threshold).

These institutional quality markers are further reinforced by technical validations at the specific program level.

4. Program-Level Technical Excellence (NBA Accreditation)

The National Board of Accreditation (NBA) Tier-1 status is the "gold standard" for engineering programs. Graduates from Tier-1 accredited branches benefit from global mobility under the Washington Accord, which ensures their degree is recognized for professional practice and higher education in numerous countries including the USA, UK, and Australia.

NBA Accredited UG Programs

Branch Name	Branch Code	Intake	NBA Status
Biomedical Engineering	BY	60	Accredited (Tier-1) until June 2031
Civil Engineering	CE	60	Accredited (Tier-1) until June 2028
Computer Science and Engineering	CS	60	Accredited (Tier-1) until June 2029
Computer Science and Engineering (SS)	CM	120	Accredited (Tier-1) until June 2029

Electronics and Communication Engineering	EC	60	Accredited (Tier-1) until June 2029
Electronics and Communication Engineering (SS)	EM	60	Accredited (Tier-1) until June 2029
Electrical and Electronics Engineering	EE	60	Accredited (Tier-1) until June 2028
Geo-Informatics	GI	60	Accredited (Tier-1) until June 2028
Industrial Engineering	IE	60	Accredited (Tier-1) until June 2028
Industrial Engineering (Tamil Medium)	IM	120	Accredited (Tier-1) until June 2026
Material Science Engineering (SS)	MA	30	Accredited (Tier-1) until June 2031
Manufacturing Engineering	MN	60	Accredited (Tier-1) until June 2028
Mechanical Engineering	ME	120	Accredited (Tier-1) until June 2029
Mechanical Engineering (Tamil Medium)	XM	30	Accredited (Tier-1) until June 2029
Civil Engineering (Tamil Medium)	XC	30	Accredited (Tier-1) until June 2028

This technical excellence is reflected in the institution's dominant performance in national and global ranking frameworks.

5. National and International Benchmarking

External rankings provide a vital, objective measure of institutional performance relative to both national and global peers. For a strategist, these rankings confirm that CEG remains a top-tier choice for research output, graduate outcomes, and academic reputation.

Institutional Rankings 2025-2026

Ranking Body	Category	Year	Rank
NIRF	Engineering	2025	20
NIRF	University (State Public Universities)	2025	2
NIRF	Overall	2025	29
QS World University Rankings	World University	2026	#=465

These benchmarks underscore the academic rigor found across the university's extensive undergraduate portfolio.

6. Undergraduate Academic Portfolio (TNEA 2026)

Selection of a branch at CEG should be guided by a combination of personal aptitude and long-term industry trends. Students should note that "SS" denotes "Self-Supporting" branches; while the curriculum and faculty are identical to regular branches, the fee structure differs.

Comprehensive Branch List

S.No	Branch Name	Branch Code	Approved Intake	NBA Status
1	Electronics Engineering — VLSI Design and Technology	EL	30	
2	Biomedical Engineering (SS)	BY	60	Accredited (Tier-1) until June 2031
3	Civil Engineering	CE	60	Accredited (Tier-1) until June 2028
4	Computer Science and Engineering	CS	60	Accredited (Tier-1) until June 2029
5	Computer Science and Engineering (SS)	CM	120	Accredited (Tier-1) until June 2029
6	Electronics and Communication Engineering	EC	60	Accredited (Tier-1) until June 2029
7	Electronics and Communication Engineering (SS)	EM	60	Accredited (Tier-1) until June 2029
8	Electrical and Electronics Engineering	EE	60	Accredited (Tier-1) until June 2028
9	Geo-Informatics	GI	60	Accredited (Tier-1) until June 2028
10	Industrial Engineering	IE	60	Accredited (Tier-1) until June 2028
11	Industrial Engineering (Tamil Medium)	IM	120	Accredited (Tier-1) until June 2026
12	Material Science Engineering (SS)	MA	30	Accredited (Tier-1) until June 2031
13	Mining Engineering	MI	30	
14	Manufacturing Engineering	MN	60	Accredited (Tier-1) until June 2028
15	Mechanical Engineering	ME	120	Accredited (Tier-1) until June 2029
16	Mechanical Engineering (Tamil Medium)	XM	30	Accredited (Tier-1) until June 2029
17	Civil Engineering (Tamil Medium)	XC	30	Accredited (Tier-1) until June 2028
18	Printing and Packing Technology	PT	60	

- **New-Age Branches:** CEG remains at the forefront of industry shifts, having introduced B.E. Electronics Engineering (VLSI Design and Technology) in 2024 to support India's semiconductor mission.

- **Tamil Medium Options:** To promote inclusive technical education, CEG offers Civil Engineering (XC) and Mechanical Engineering (XM) in Tamil medium, both of which maintain NBA Tier-1 accreditation.

7. Campus Residency and Urban Connectivity

The campus infrastructure is designed to facilitate a student's transition from high school to professional life. Situated in the heart of Chennai, CEG offers a unique mix of a serene academic environment and immediate proximity to the city's vast industrial and transportation hubs.

Hostel Facilities

- Permanent hostel accommodations are available for both boys and girls.
- Mess facilities provide both Vegetarian and Non-Vegetarian options to cater to a diverse student body.

Connectivity & Transport

- **Institutional Transport:** College-operated transport is not available.
- **Public Transport Connectivity:** The campus is exceptionally accessible via public transit. It is located roughly 3 km from both the Saidapet and Guindy railway stations. The Guindy bus terminus is within walking distance, providing direct links to all parts of Chennai.

8. Financial Access and Scholarship Framework

As a State Public University, CEG is committed to ensuring that financial constraints do not hinder merit-based education. Multiple government-backed aid programs are available to ensure that students from all socioeconomic backgrounds can complete their engineering degrees.

The following government scholarships are available to eligible students at this institution:

- SC/ST Tuition Fee Scholarship (Govt. of Tamil Nadu)
- BC / MBC / DNC Scholarship (Govt. of Tamil Nadu)
- First Graduate Scholarship (Govt. of Tamil Nadu)
- Post-Matric Scholarship for OBC (Govt. of India)
- Minority Scholarship (Govt. of India)

9. Research Ecosystem and Technological Milestones

The strength of CEG's undergraduate experience lies in its research-heavy environment. Unlike many private institutions, CEG offers undergraduate students the rare opportunity to work in specialized research centers of national importance, fostering an early aptitude for innovation.

Research and Innovation Centres

- Centre for Climate Change and Disaster Management
- Institute of Remote Sensing
- Centre for Environmental Studies
- Institute for Ocean Management

- Centre for Water Resources
- NHHID — National Hub for Healthcare Instrumentation Development
- Ramanujan Computing Centre

Technological Milestone: ANUSAT A defining achievement of the CEG research body is the ANUSAT Microsatellite. Developed in direct partnership with ISRO, it was the first university-built satellite in India and was successfully launched into orbit in 2009, setting a high bar for student-led aerospace projects.

10. Institutional Distinctions and Awards

The sustained excellence of CEG is documented through several high-profile awards and designations that reflect its role as a leader in the Indian technical landscape.

Major Achievements

- **ANUSAT Satellite (2009):** First satellite built by an Indian university; recognized by ISRO.
- **NAAC A++ Grade (2023):** Awarded by the National Assessment and Accreditation Council with an elite CGPA of 3.54.
- **NIRF Rank 2 (2025):** Ranked second nationally in the "State Public Universities" category by the Ministry of Education.
- **QS World Ranking (2026):** Ranked #465 globally, marking its presence on the world stage.

11. Legacy of Excellence: Distinguished Alumni

The ultimate measure of an institution's worth is the success of its graduates. CEG's alumni network includes pioneers who have fundamentally shaped science, industry, and social policy on a global scale, providing current students with a powerful professional legacy.

Notable Alumni of CEG

Name	Accomplishment/Title	Graduation Period
A. Lalitha	India's first female engineer	1940s
Verghese Kurien	Father of the "White Revolution"; Architect of Operation Flood	1940s
Rangaswamy Narasimhan	Developed India's first computer (TIFRAC); Padma Shri recipient	Late 1950s
Raj Reddy	AI Pioneer; Turing Award winner; Padma Bhushan recipient	1960s
P. S. Veeraraghavan	Former Director, Vikram Sarabhai Space Centre (VSSC), ISRO	1970s

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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