

University College of Engineering, Arni: An Institutional Profile for TNEA 2026

Section 1: Institutional Identity and Admission Framework

University College of Engineering, Arni (UCE Arni) serves as a critical node within the Anna University constituent network. As a government-administered institution, it is strategically positioned to provide standardized technical education to the northern districts of Tamil Nadu. Functioning under the direct governance of Anna University, Chennai, the college ensures that rural learners have access to the same academic rigor and university-level oversight as students in metropolitan hubs.

Field	Details
Full Name	University College of Engineering, Arni
Short Name	UCE Arni
TNEA Code	1015
Institution Type	Constituent College
Admission Route	100% TNEA University Quota
Gender Profile	Co-educational

The institution is situated on the Arni to Devikapuram Road in Thatchur, Arni Taluk. This location enables regional accessibility while maintaining proximity to major industrial and urban centers, located approximately 5 km from Arni, 60 km from Vellore, and 150 km from Chennai.

A significant analytical marker of UCE Arni is its 100% university quota admission model. The absence of a management quota ensures a strictly merit-based access framework for 12th-standard students. This transparency eliminates socio-economic barriers to entry, a core tenet of its founding as a state-administered institution under the Government of Tamil Nadu.

Section 2: Founding and Institutional Heritage

University College of Engineering, Arni was established in 2009 as part of a state-wide initiative to decentralize technical education. By placing a constituent college in the rural belt of the Thiruvannamalai district, the government aimed to bridge the urban-rural divide in engineering expertise.

Developmental Milestones

- **2009:** Inauguration of the campus with four core B.E. programs: Computer Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering, and Mechanical Engineering (English Medium).
- **2010:** Strategic addition of the Mechanical Engineering track in Tamil Medium to enhance linguistic accessibility.
- **2023:** Diversification of the academic portfolio with the introduction of the B.Voc. program in Footwear Manufacturing.

The permanent infrastructure of the college was facilitated by a substantial government grant of Rs. 26 crores, which was utilized for the construction of academic blocks and residential facilities on the 36-acre campus.

The institutional mission remains focused on "providing technical education to rural learners and first-generation students." This commitment ensures that professional engineering degrees remain accessible to the grassroots demographic of the state, governed by a standardized regulatory framework.

Section 3: Regulatory Compliance and Approval Status

For TNEA 2026 aspirants, regulatory compliance is the primary indicator of degree validity. Approval from the All India Council for Technical Education (AICTE) is mandatory for the college to operate within the national technical education framework.

AICTE Standing UCE Arni is officially "APPROVED" for the 2025-26 Academic Year, as per TNEA 2025 records. The institution is registered under the AICTE Permanent ID: 1-9321524251.

Intake Capacity The college maintains a total approved undergraduate (UG) intake of 240 seats for its engineering programs. This controlled capacity is designed to ensure that the

faculty-to-student ratio remains within university-mandated limits across all core departments.

Section 4: Undergraduate Program Portfolio (TNEA 2026)

The academic offerings at UCE Arni provide a balanced mix of foundational engineering disciplines and specialized language-medium instruction.

Branch Distribution Table

Branch Name	Branch Code	Approved Intake	Year Started
Computer Science and Engineering	CS	60	2009
Electronics and Communication Engineering	EC	60	2009
Electrical and Electronics Engineering	EE	60	2009
Mechanical Engineering (English Medium)	ME	30	2009
Mechanical Engineering (Tamil Medium)	XM	30	2010

Linguistic Access Analysis A standout feature of this portfolio is the Mechanical Engineering program in Tamil Medium (Branch Code: XM). This serves as a strategic inclusion tool, specifically designed to mitigate the transition challenges faced by students from Tamil-medium schooling backgrounds. By offering technical concepts in the native language, the institution effectively supports its mission of empowering first-generation engineering learners.

The total seat count of 240 is distributed to maintain departmental parity, with instruction provided by a stable and qualified faculty body.

Section 5: Faculty Profile and Academic Leadership

The faculty composition at UCE Arni is structured to provide both specialized engineering instruction and the necessary foundational science education required for the early years of the B.E. curriculum.

Faculty Composition According to the 2021-22 disclosure, the institution employs 30 working faculty members across the four engineering departments. Critically, this is supplemented by 12 faculty members in the Science and Humanities department, who provide the essential mathematical and scientific grounding for first-year students.

Leadership and Expertise The academic environment is led by Dean i/c Dr. G. Senthil Kumar, who holds a Ph.D. in Physics. Dr. Kumar is a prolific academic, having authored 20 books for engineering syllabi and contributing significantly to the leadership team alongside Dr. R. Arularasan.

Academic Output The research culture is evidenced by the publication records of its leadership; Dr. Kumar has published 28 international journal papers. This focus on scholarly output ensures that the academic environment remains aligned with current scientific developments, which is further supported by the campus infrastructure.

Section 6: Campus Infrastructure and Residential Facilities

The 36-acre campus at Thatchur provides a self-contained ecosystem designed to support students from across the state.

Residential Inventory and Transit The college offers permanent hostel buildings to accommodate its residential population:

- **Boys Hostel:** 42 rooms with vegetarian and non-vegetarian mess facilities.
- **Girls Hostel:** 54 rooms with vegetarian and non-vegetarian mess facilities.
- **Regional Connectivity:** For outstation students, the primary rail access point is the Arni Road Junction, located approximately 15 km from the campus.

Technical Resources The academic infrastructure includes a library with 14,591 volumes and digital access to IEEE, Springer, and the National Digital Library (NDL). The computer center features 350 systems supported by 100 Mbps connectivity, facilitating both digital instruction and student research.

Auxiliary Facilities Campus life is supported by 22 classrooms, 19 dedicated laboratories, and an on-campus ATM (Bank of Baroda). To ensure student health, the college operates a Reverse Osmosis (RO) water plant with a capacity of 1,200 liters per day and maintains proximity to the Primary Health Centre (PHC) at Thatchur. These facilities are complemented by robust financial support systems.

Section 7: Scholarships and Financial Access

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As a constituent college, UCE Arni acts as a conduit for various government-backed financial access mechanisms. These schemes are vital for mitigating the socio-economic barriers faced by rural and first-generation students.

Scholarship Directory The following schemes are available to eligible students:

- **BC/MBC/DNC Scholarship:** Provided by the Government of Tamil Nadu.
- **SC/ST/SCA Scholarship:** Provided by the Government of Tamil Nadu.
- **7.5% Government School Quota:** Comprehensive financial assistance for eligible government school students.
- **Pudhumai Penn & Tamil Pudhalvan Scholarships:** Targeted support for eligible girl students and other qualifiers from government schools.
- **Minority Scholarships:** Central government schemes for eligible minority community students.

This eligibility framework ensures that technical education remains financially viable for all merit-based admits.

Section 8: Research, Innovation, and Funded Projects

The research environment at UCE Arni is characterized by specialized projects in material science and advanced electronics, supported by external national funding.

Funded Project Portfolio

- **Thin Film Research:** A project investigating "Swift Heavy Ion Irradiation Effects on Multiferroic Properties of Bismuth Ferrite Thin Films," funded by IUAC, New Delhi.
- **Material Analysis:** "Exploration of Optical Properties on Irradiation Induced Defects in Amino Acid Single Crystals," funded by CSR-DAE, Indore.
- **Nanostructured Materials:** "Investigations on the Magnetoelectric Properties of Nanostructured Multiferroic Bismuth Ferrite," funded by DST-SERB, New Delhi, focusing on applications for modern memory devices.

These projects reflect an institutional focus on the physical properties of materials used in next-generation electronic components.

Section 9: Institutional Achievements

In the absence of traditional commercial rankings, the college measures its quality through validated institutional benchmarks and formal research sanctions from prestigious national bodies.

Validated Institutional Benchmarks The following projects serve as markers of the institution's research standing, having met the rigorous selection criteria of national agencies during the 2021-22 cycle:

- **IUAC (Inter-University Accelerator Centre), New Delhi:** Validated project on Multiferroic Properties.
- **CSR-DAE (Centre for Scientific Research - Department of Atomic Energy), Indore:** Validated project on Irradiation Induced Defects.
- **DST-SERB (Department of Science and Technology), New Delhi:** Validated project on Nanostructured Bismuth Ferrite for memory applications.

These sanctions establish UCE Arni as a noteworthy participant in the TNEA 2026 landscape, offering a government-backed engineering education with a verified foundation in applied material research.

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

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