



TERNA ENGINEERING COLLEGE
An Autonomous Institute Affiliated to University of Mumbai

Terna Public Charitable Trust's

TERNA **ENGINEERING** **COLLEGE**

VISIONARIES BEHIND THE INSTITUTION

FOUNDER



Hon'ble Dr. Padmasinha Patil

Founder & Chairman

Hon'ble Dr. Padmasinha Patil founded the Terna Public Charitable Trust, now a group of colleges, schools and a hospital serving Maharashtra. He served over 25 years in the State Cabinet, holding the Home, Irrigation and Energy portfolios, and represented Dharashiv in Parliament. He established the Trust to bring education and healthcare to those who had little access to either, and its institutions remain open to every section of society.

CO-FOUNDER



Shri. Ranajagjitsinha Patil

Co-Founder & Vice Chairman

A telecommunications engineer by training, Shri. Ranajagjitsinha Patil expanded the Trust's education work and led development across the Dharashiv region. He helped frame State policy on self-employment, agriculture and enterprise, and worked to bring industry, piped drinking water and solar power to the district. Known locally as Ranadada, his priority for the Trust is education that extends into applied research, employability and practical skills.

EXE. TRUSTEE



Shri. Malhar Ranajagjitsinha Patil

Executive Trustee

An engineering graduate, Shri. Malhar Ranajagjitsinha Patil oversees strategy and execution across the Trust's institutions. He works on policy formulation and its implementation, and contributes to the decisions that set the group's direction. His focus is the integration of technology into teaching, keeping academic programmes current and aligned with what students need in the workplace.

THE TERNA PUBLIC CHARITABLE TRUST

The Terna Public Charitable Trust (TPCT) was founded in 1980 by our respected Founding Member and beloved President, Dr. Padmasinhaheb Patil. All our Trustees have dedicated their lives to social development and share a philanthropic vision.

From its humble beginnings, the Trust has grown to operate 22 institutions, encompassing primary and secondary education, pre-university and higher education, as well as several vocational programmes. It also runs a Speciality Hospital at Nerul, Navi Mumbai.

We have grown steadily and aim to further expand our reach across a wide range of educational and healthcare initiatives throughout the State of Maharashtra. We remain committed to the welfare of people from the most underprivileged sections of society, without distinction of caste, creed, or colour.

We place strong emphasis on nurturing children and youth who will become the responsible citizens of India tomorrow. Our institutions are primarily located in Dharashiv and Navi Mumbai, with more than 18,000 students currently enrolled.

Guided by our experienced Trustees and management team, we continue to serve with dedication and purpose. Their leadership has enabled us to offer a diverse range of educational opportunities and to build strong and enduring bonds within the communities we serve.



Dear Students and Colleagues,

It is both an honour and a privilege to serve in a role that brings together multiple dimensions of academic leadership. The Terna Group of Institutions, comprising colleges in Medicine, Dentistry, Physiotherapy, Nursing, Design, and Engineering, represents a unique ecosystem with immense potential for interdisciplinary collaboration and innovation.

As we stand at the intersection of rapid technological advancement and evolving societal needs, there has never been a more important time to integrate knowledge across disciplines. As Associate Dean of the Faculty of Science and Technology at the University of Mumbai, I have facilitated academic integration among disciplines such as Science, Commerce, and Arts under the framework of NEP 2020. I now look forward to extending this interdisciplinary approach to the medical and healthcare domains as well.

Serveing as Principal of Terna Engineering College, I have witnessed firsthand the strength, commitment, and excellence that define the Terna ethos. It is on this foundation of trust and experience that this expanded responsibility has been entrusted to me.

To all students, you are at the heart of this journey. The future will demand not only deep expertise in your chosen field but also the ability to collaborate and innovate across disciplines.

To my colleagues, I look forward to working with you to develop joint initiatives, research programmes, and innovation platforms that enrich our academic ecosystem and serve the wider community.

Together, let us build an academic environment that is future-ready, socially conscious, and globally relevant—true to the vision of the Terna Trust.



Dr. Deven Shah

Principal, Terna Engineering College

Associate Dean-Faculty of Science
and Technology, University of Mumbai

Director, Medical-Technology
Academic Integration, Terna Trust

TERNA ENGINEERING COLLEGE IS NOW AN **AUTONOMOUS INSTITUTE**.

Degrees remain affiliated to the University of Mumbai, with the academic freedom to design curriculum, evaluation, and electives around how engineering is actually practised.

A technical college on a

**2.5 acre
campus in**

*Nerul, a short walk
from the railway station.*

Most of our programmes are accredited by the National Board of Accreditation (NBA). The curriculum is reviewed and updated regularly, and much of the teaching is delivered by faculty with industry experience, ensuring that students work with current tools, technologies, and practices rather than outdated methods.

With autonomous status, departments revise curricula, introduce new electives, and refine assessment methods without having to wait for lengthy external approval cycles. The campus remains secure, well-connected, and designed to support hands-on learning and practical experience.

▲ AT A GLANCE

2.5

Acre Campus
with natural pond

30k+

Library Books

60

Laboratories

600+

Networked Computers

3k+

Journals Print & Online

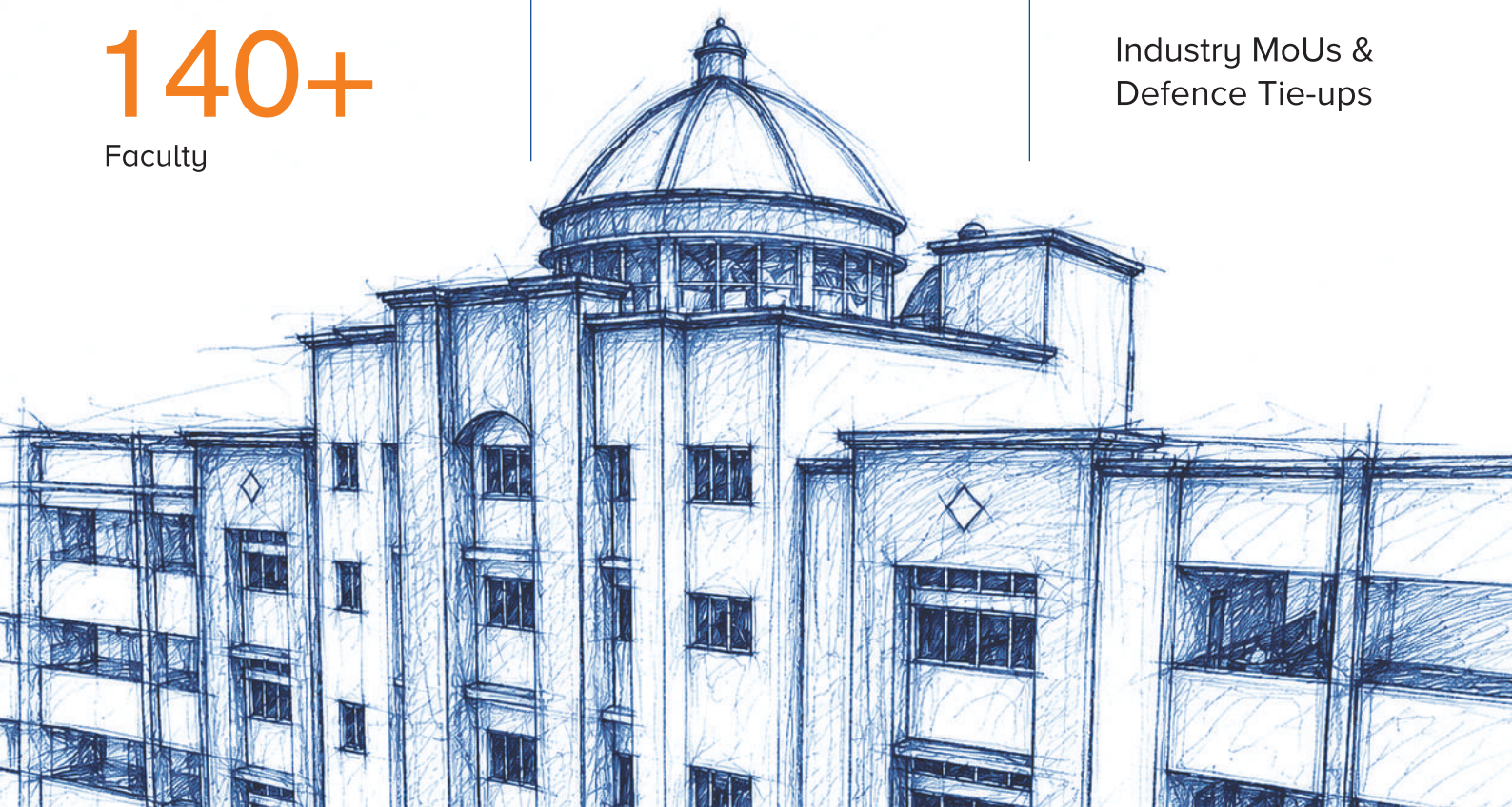
40k

Sq Ft Sports Turf

140+

Faculty

Industry MoUs &
Defence Tie-ups





Engineering *Dreams* Begin *Here*

▀ Vision

To deliver value-added quality education to the aspiring students, meeting stringent requirements of the changing technology, industry, business and society as a whole.

▀ Mission

To provide an environment of academic excellence and adopt appropriate teaching – learning processes to produce competent and skilled engineers to meet global challenges.

▀ Our Values

- We are committed to imparting quality education through meticulous and innovative methods that prepare students to become industry-ready professionals.
- We strive for excellence in education by continuously enhancing our academic programmes to provide students with meaningful learning experiences that are both enriching and memorable.
- We inspire students to realise their full potential by encouraging participation in intellectual, technical, and co-curricular activities that foster personal and professional growth.
- We continuously guide our students towards the right path, empowering them to build a brighter and more successful future.

TERNA ENGINEERING COLLEGE

Undergraduate (UG) Programs:

Name of program	Course code	Intake	NRI* Intake	Children of Gulf Worker (CGW) Intake	PIO*/OCI* /Foreign National Intake	Lateral Intake DSE
Artificial Intelligence (AI) and Data Science	0319026310	120	–	–	–	6
Electronics & Telecommunication Engineering	0319037210	120	6	6	12	12
Computer Engineering	0319024510	180	9	9	18	18
Information Technology	0319024610	120	–	–	–	6
Mechanical Engineering	0319061210	60	3	0	0	6
Mechatronics Engineering	0319062410	60	3	3	6	6
Civil Engineering	0319019110	60	–	–	–	6
Electronics Engineering	0319037610	60	–	–	–	6

DEPARTMENT OF **ELECTRONICS ENGINEERING**

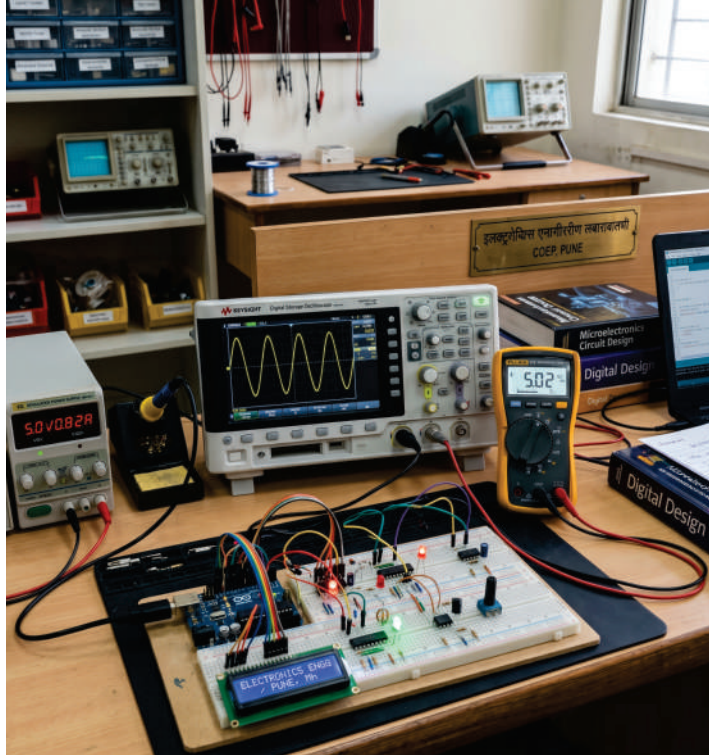
➤ Programs offered

Bachelor of Engineering (B.E.)
4 year Full time

Doctorate (Ph.D)

➤ Notable Features

- ▶ NBA-accredited programme with labs for microprocessors, power electronics, control systems, PCB design, and electronic instrumentation, supported by Xilinx Vivado, Mentor Graphics, and APLAB workbenches.
- ▶ Students work on in-house projects, assignments, and interdisciplinary robotics alongside their regular coursework.
- ▶ Industry visits, training, and placements with the Giant Metrewave Radio Telescope, Hindustan Aeronautics Limited, JNPT, and the Reliance thermal power plant.
- ▶ Faculty and students publish research at national and international conferences each year.
- ▶ End-to-end PCB and six-layer SMD design
- ▶ Option to pursue a dual degree with honours in AI & DS, cybersecurity, or defence technology.



➤ Faculty at a glance

- ▶ The team has one Professor and eight Assistant Professors, all PhD holders, with about 200 research publications and two patents between them.
- ▶ Faculty have earned Gold and Silver medals from NPTEL-Swayam and have run six faculty development programmes.
- ▶ Members provide consultancy to industry, including the Mumbai telecom-infrastructure firm Sugog Telematics Ltd.



➤ Student's Achievements

- ▶ 1st Prize in Robo Race - Bharati Vidyapeeth TechFEST'25, Team Quintet from the E-Yantra Robotics Lab designed, wired, and programmed a custom bot that raced to a first-place finish.
- ▶ 2nd Prize in Robo Strike-VJTI ISF Tech Carnival, The same team secured 2nd place at VJTI's combat-style bot challenge.
- ▶ Purva Kinare, T.E. Electronics, represented Maharashtra in three Yoga Sana categories at the 36th National Games and returned with three medals.

DEPARTMENT OF **ELECTRONICS & TELECOMMUNICATION ENGINEERING**

➤ Programs offered

Bachelor of Engineering (B.E.)
4 year Full time

Doctorate (Ph.D)

➤ Notable Features

- ▶ NBA-accredited programme with labs in optical fibre and microwave, digital signal processing, television and video, antenna design, and microprocessors.
- ▶ Equipment includes a Vector Network Analyser, Digital Storage Oscilloscope, RADAR, Spectrum Analyser, and APLAB test benches, with MATLAB, Simulink, and OptiSystem on the software side.
- ▶ Regular industry visits, training, and placements with ISRO, the Giant Metrewave Radio Telescope, All India Radio, and LBS College of Advanced Maritime Studies and Research.
- ▶ Students gain hands-on experience across the RF, simulation, and communication-systems labs through the programme.
- ▶ Option to pursue a dual degree with honours in AI & DS, cybersecurity, or defence technology.



➤ Faculty at a glance

- ▶ The team has two Professors, one Associate Professors, and fifteen Assistant Professors, several holding PhDs from well-known institutes.
- ▶ One faculty member received the Avishkar Gold Medal from the Government of Maharashtra.
- ▶ Another holds the Global Intellect Award for Best Teacher (Central India) from the Asian Society for Scientific Research.



➤ Student's Achievements

- ▶ Rahul Khedekar and Vedang Joshi won the Best Innovation Award (Hardware) for their project PCB Ecosystem at a national-level prototype competition.
- ▶ Rishabh Singh was selected among India's Top 20 Young AI Builders at AIBoomi Annual '25, Chennai, alongside founders and innovators shaping AI.
- ▶ Many students working with defence industry.
- ▶ The department recorded 5 Elite achievers and 52 successful completions in NPTEL online certification courses.

DEPARTMENT OF **COMPUTER ENGINEERING**

➤ Programs offered

Bachelor of Engineering (B.E.)
4 year Full time

Doctorate (Ph.D)

➤ Notable Features

- ▶ NBA-accredited programme with labs for software development, networking, Linux, advanced computing, systems, and simulation.
- ▶ EPIC, a project-based learning track, pairs final-year students with industry mentors on real builds.
- ▶ A research-incubation programme connects students with mentors from NITs and IITs.
- ▶ Student projects in Flutter, React, Android, cloud, deep learning, IoT, and blockchain are reviewed by engineers from TCS, Infosys, and LTI.
- ▶ Option to pursue a dual degree with honours in AI & DS, cybersecurity, or defence technology.



➤ Faculty at a glance

- ▶ The team has two Professors, six Associate Professors, and nineteen Assistant Professors.
- ▶ Faculty are PhD holders with around 300 research publications between them.
- ▶ Members hold best-paper awards, research grants, and registered patents, and have represented the institute internationally.

➤ Student's Achievements

- ▶ Aniket Dinde and Team won the 1st Prize at MLH Hackathon 6.0 and became National-Level Hackathon Champions.
- ▶ Dashrath Parekar and Vignesh Thandessary were ranked among India's Top 200 AI Teams and were invited to Bharat Mandapam, New Delhi.
- ▶ Anushka Anant Patil won the Gold Medal in the Women's 200m Sprint at the University of Mumbai Athletics 2025.
- ▶ Hazique Sayed, Raj Jaiswar and Manav Rajpurohit secured 1st Place at Mumbai Hacks 2025 in the Entertainment Innovation Track.

DEPARTMENT OF **INFORMATION TECHNOLOGY**

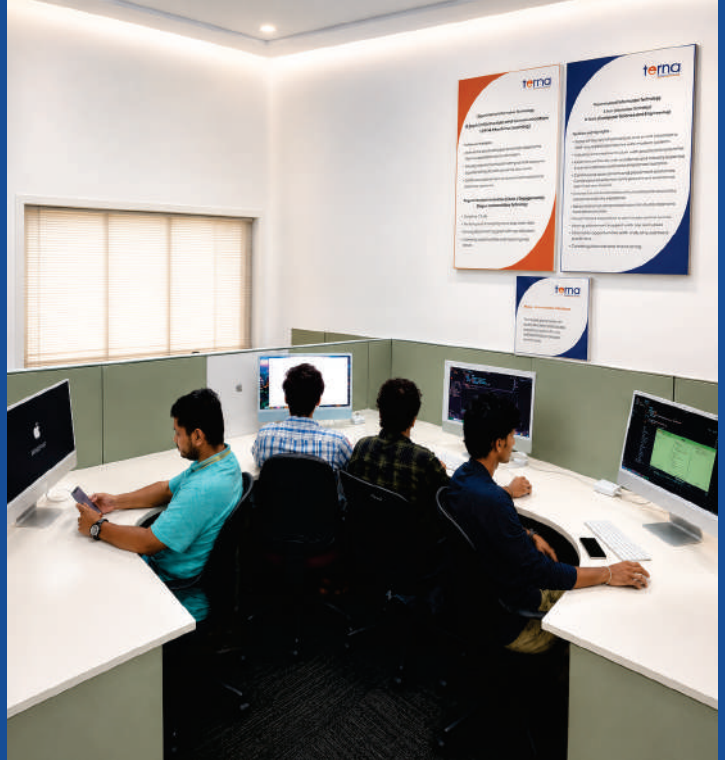
➤ Programs offered

Bachelor of Engineering (B.E.)
4 year Full time

Doctorate (Ph.D)

➤ Notable Features

- ▶ NBA-accredited programme with labs for distributed computing, open-source development, micro-computing, and information science.
- ▶ An Apple multimedia lab supports design and media coursework.
- ▶ Industry training with Opulent Infotech, ESDS Software Solutions, and the Nashik Engineering Cluster.
- ▶ Coursework stays current with Big Data, Machine Learning, Data Science, blockchain, and AI.
- ▶ Option to pursue a dual degree with honours in AI & DS, cybersecurity, or defence technology.



➤ Faculty at a glance

- ▶ The team has one Professors, one Associate Professors, and seven Assistant Professors.
- ▶ Faculty are PhD holders with more than 100 research publications between them.
- ▶ Areas of expertise include Big Data, Machine Learning, Data Science, blockchain, AI, Cryptocurrency investigation and dark web analysis.

➤ Student's Achievements

- ▶ Devang Deokule secured 2nd Runner-Up at Google's PromptWars among 130+ participants.
- ▶ Omkar Kadam ranked Top 7 among 31,000+ teams at the Meta PyTorch Grand Finale, Bangalore.
- ▶ "Ezzerreur" - a VS Code extension built to supercharge developer productivity.
- ▶ Team "Vigilantix" -recognized for creativity, technical excellence, and real-world impact.



DEPARTMENT OF **MECHANICAL ENGINEERING**

➤ Programs offered

Bachelor of Engineering (B.E.)
4 year Full time



➤ Notable Features

- ▶ CAD lab with workstations running PTC Creo and ANSYS (commercial licence) for design and analysis.
- ▶ Production-grade CNC lathe and VMC machines, a 100-tonne computerised UTM, and an industry-grade heavy-duty press.
- ▶ The machine shop and departmental workshop hold Centre of Excellence recognition from Godrej & Boyce, with CNC training run on site.
- ▶ Student chapters of ASHRAE and ISHRAE support projects in HVAC and refrigeration.
- ▶ Option to pursue a dual degree with honours in AI & DS, cybersecurity, or defence technology.



➤ Faculty at a glance

- ▶ The team has four PhD-holding faculty with over 25 years of experience each, plus one Professor, one Associate Professor and ten Assistant Professors pursuing their PhDs.
- ▶ Faculty and students have produced around 250 research papers in thermal, manufacturing, and design areas.
- ▶ The department ran a faculty development programme on innovation, entrepreneurship, and Industry 4.0.



➤ Student's Achievements

- ▶ A USD 10,000 international grant for two projects: solar air-conditioning using nanofluids and thermal-energy storage using phase-change material.
- ▶ National Best Innovation Award at the National Electric Kart Championship, Bhopal.
- ▶ Project teams take part in national kart and electric-vehicle build competitions.

DEPARTMENT OF **MECHATRONICS**

➤ Programs offered

Bachelor of Engineering (B.E.)
4 year Full time



➤ Notable Features

- ▶ The first Mechatronics Engineering programme in Maharashtra, started in 2014.
- ▶ Labs include CAX, LabVIEW, CNC, applied hydraulics and pneumatics, and instrumentation and control.
- ▶ A LabVIEW hardware-in-the-loop lab and a 3D-printing Centre of Excellence run in collaboration with Anet Inc.
- ▶ Training tie-ups with B&R Automation, SMC, Festo, Beckhoff, and Christiani Sharpline.
- ▶ Option to pursue a dual degree with honours in AI & DS, cybersecurity, or defence technology.



➤ Faculty at a glance

- ▶ The team has one Associate Professor, and eight Assistant Professors.
- ▶ Faculty hold PhDs and master's degrees from universities in the USA, Thailand, and India.
- ▶ Members bring experience from BARC and DRDO; one received a certificate of merit from Dr A.P.J. Abdul Kalam and the Chief of Naval Staff.



➤ Student's Achievements

- ▶ ISIE Future Award at the Electric Solar Vehicle Competition.
- ▶ Runner-up at NI-Yantra.
- ▶ Best Innovation at the National Electric Kart Championship 3.0.

DEPARTMENT OF **CIVIL ENGINEERING**

➤ Programs offered

Bachelor of Engineering (B.E.)
4 year Full time

➤ Notable Features

- ▶ Labs for fluid mechanics, engineering geology, surveying, building materials, and concrete technology.
- ▶ NABL-certified testing: a 2000 kN compression testing machine, a 100-tonne UTM, and a total station for professional surveying.
- ▶ Consultancy services in non-destructive testing.
- ▶ Industrial visits to CIDCO, PWD, MMRDA, and the Rock Museum at Nashik, with internships for students.
- ▶ Option to pursue a dual degree with honours in AI & DS, cybersecurity, or defence technology.



➤ Faculty at a glance

- ▶ The team has two Associate Professor and seven Assistant Professors.
- ▶ Faculty are PhD scholars with experience in residential, commercial, oil and gas, and power projects, and in smart materials and structures.
- ▶ Members serve on journal editorial boards; one received the Best International Young Faculty Award from IACRD, USA, in 2019.



➤ Student's Achievements

- ▶ Innovative Projects Developed: Vajra Kavach, Jal Shuddhi, Smart Eco-Luminous Tiles, Waste Treater and Floating Panels.
- ▶ Ayush Malap & Ananya Karhadkar secured 2nd Prize in the Bridge-IT Competition at IIT Bombay.
- ▶ Apurva Kadwe & Atharva Patil secured 2nd Prize in the Logo Design Competition.

DEPARTMENT OF **ARTIFICIAL INTELLIGENCE (AI) & DATA SCIENCE**

➤ Programs offered

**Bachelor of Engineering (B.E.)
4 year Full time**

➤ Notable Features

- ▶ Focus on machine learning, big-data analytics, data mining, and data modelling within the core AI field.
- ▶ Coursework builds intelligent systems using machine learning, analytics, and visualisation methods.
- ▶ Member of the Computer Society of India and the Indian Society for Technical Education, which open up sponsorships and national forums for students.
- ▶ Online learning support through the Code Zinger coding lab and the LynxE interactive platform.
- ▶ Option to pursue a dual degree with honours in AI & DS, cybersecurity, or defence technology.



➤ Faculty at a glance

- ▶ The team has one Associate Professor and eight Assistant Professors, all PhD holders.
- ▶ Faculty have more than thirty international publications and seventy-four citations to date.
- ▶ Developed by the faculty of the AI & DS Department, BODHSETU is an academic intelligence platform designed to strengthen data-driven academic management. It supports institutions in planning, tracking, and improving academic processes with smarter insights.



➤ Academic Activities

- ▶ AI and Data Science students take part in coding competitions and have won several prizes.
- ▶ Project work draws on the department's machine-learning and analytics labs.
- ▶ Students engage with national forums through CSI and ISTE membership.

GENERAL **ENGINEERING DEPARTMENT**

➤ Programs offered

First-year foundation curriculum
for all B.E. programmes

Core grounding in science,
mathematics & engineering basics



➤ Notable Features

- ▶ Trains first-year students across every UG programme to build their science, mathematics, and technical base.
- ▶ Laboratories for AutoCAD, engineering mechanics, physics, chemistry, basic electrical work, and communication skills.
- ▶ A basic workshop-practice lab for hands-on fundamentals.
- ▶ An induction programme that orients students to the institute, mentors, and departments, with sessions on creative arts, human values, and proficiency modules.



➤ Faculty at a glance

- ▶ The team has one Professor, two Associate Professors and thirty-six Assistant Professors.
- ▶ Faculty have produced nearly 100 research publications, two patents, and three published books.
- ▶ The department updates its labs, technology, and teaching methods for the foundation year on a regular cycle.



➤ Academic Foundation & Activities

- ▶ Every first-year student completes a structured induction before moving into a core branch.
- ▶ A strong foundation year feeds into department-level performance and university ranks.
- ▶ First-year students take part in technical and proficiency activities through the year.

B.VOC PROGRAMMES

A technical degree without the Science barrier

Terna's autonomous status lets the college build B.Voc programmes around labs and projects rather than a fixed university syllabus. The degree is open to any 12th-pass student from Science, Commerce, Arts or Vocational streams, with no PCM requirement and no JEE or CET for the AI & Cybersecurity and Defence Technology tracks. It is a UGC-recognised, NSQF-aligned bachelor's degree at the same level as a B.Sc or B.Com.

The full track was designed by the Dr. Deven Shah, Principal, TEC & Associate Dean, Faculty of Science and Technology, University of Mumbai, together with serving defence-sector professionals. Three exit points are built in: a Diploma after year one, an Advanced Diploma after year two, and the full Bachelor of Vocation after year three.

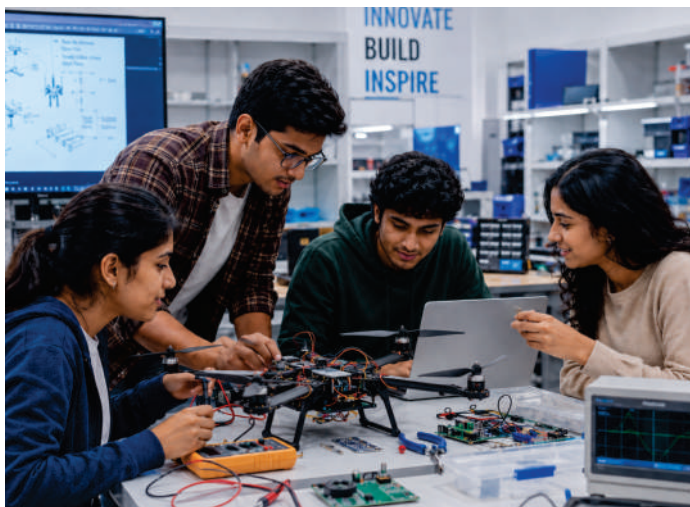
AI & Cybersecurity

➤ 60 seats

For students who want to work in AI-led threat detection, cyber warfare, digital forensics and risk management.

Focus areas: Applied AI for threat detection; digital forensics & risk management; cybersecurity & cyber warfare; AI in cryptocurrency investigation.

Career paths: Cybersecurity Analyst, Digital Forensics Associate, Threat Intelligence Analyst, Crypto Investigation Support.



Defence Technology

➤ 30 seats

For students interested in drones, UAV operations, national security systems and autonomous warfare technologies.

Focus areas: Drone & UAV operations; defence technology & national security; AI/ML for strategic systems; autonomous warfare systems.

Career paths: Drone Operator, UAV Technician, Defence Technology Associate, Strategic Systems Support.

Design

➤ 30 seats

For students drawn to UI, UX, product design, communication design, branding and digital media.

Focus areas: UI, UX & product design; communication design; graphic design; branding & digital media.

Career paths: UI/UX Designer, Product Designer, Graphic Designer, Brand & Communication Designer.

**Entry requires a valid Design CET or UCEED score.*



LIBRARY

The Central Library promotes intellectual growth and creativity by developing collections, facilitating access to information resources, teaching the effective use of information resources and critical evaluation skills and offering research assistance.

Which is available with a full fledged state of the Art Reading Room, with a centralised air-conditioning and equipped with high-speed Wi-Fi facility.

➤ **Reference Services**

➤ **User Guidance Services**

➤ **Circulation Services**

➤ **Bibliographic Services**

➤ **Current Awareness Service**



Library Resources

Along with project reports and technical books, the library has books on Social Sciences, General interests and Certifications like MSCE and Audiovisual materials. The Central Library is running SOUL Software for library management tools.

Salient Features

- ▶ 35055 Books Available for reference of Engineering Syllabus
- ▶ 116 Journals Magazine Periodicals of National & International
- ▶ 1258 Multimedia Kits & CD-ROM's for study purpose and for reference of syllabus
- ▶ 1020 exclusive access for best standard Online Journal which include IEEE-(ASPP+IEL), Springer, ASME, ASCE And Knimbus Digital Library these aren't freely available
- ▶ Electronic Theses & Dissertations, and In-house Bibliographic and full-text Databases.
- ▶ Digital Library Services with Laptops working in a networked environment through connectivity provided by using a highest Bandwidth of 500 Mbps.



DIGITAL LIBRARY SERVICES

Terna Central Library has established a digital library with over 16 laptops operating in a networked environment, supported by a 500 Mbps high-bandwidth leased-line connection.

State-of-the-art Digital Library provides seamless access to various CD-ROM databases, Electronic Theses & Dissertations, and in-house Bibliographic and full-text Databases.



INDUSTRY INSTITUTE PARTNERSHIP CELL

The institute has an Industry Institute Partnership Cell under the umbrella of which a number of industry-related activities are carried out with the objective of providing industry exposure and best industry practices to engineering students.



➤ Compulsory in-plant training/ internship in Industry for the 3rd year students of all branches during the summer break.

➤ Oracle Workforce Development Program and IBM Seed Program were conducted to enhance the employability of students.

➤ Evaluation of 3rd year Mini Projects & final year Projects by Industry Experts.

➤ Implementation of Industry Institute Partnership Cell (IIPC) Projects by Faculties and Students.

➤ Subsidized industry training to students in big brands such as Siemens, BSNL, and Godrej Automation.

➤ Frequent participation of the students in competitions from Texas Instruments and National Instruments.

➤ ATS MOU/IV Program for- Microsoft Certifications and Autodesk/Autocad Certifications with Training.

➤ Setting up of collaboration Labs/CoE-Industry Collaborations/MOUS Successfully signed with:

- Maritime & Shipbuilding for Product-Life-Cycle Management(PLM)
- Red-Hat CoE
- Panasonic CoE
- InfinityX for Augmented Reality (AR) and IoT
- MoU with ANVESHANA, The Tech and Incubation Center, 97 Artillery Brigade, Indian Military Cantonment, Ch. Sambhaji Nagar.
- MoU with Paras Defense Anti-Drone Technologies, Nerul.
- MoU with Marathwada Accelerator for Growth and Incubation Council (MAGIC), Ch. Sambhaji Nagar.
- MoU with MPI Automotive, Pune.

➤ Participation in a training program on Embedded Linux from Xilinx Inc, Apple's iOS development program in India, and Texas Instrument (TI) University program.



THE RESEARCH INCUBATION PROGRAM

The Research Incubation Program encompasses; Introductory & Exploratory Lectures, Literature Review, Topic Crystallisation, Reviews & Experimentations, Research Assignments, Identification of relevant conferences or a journal to present/publishing the paper Preparing the Research Paper, Communicate the paper and follow-through

- › Students and faculty get to access the
- › "Deep-dyve Platform" which helps them to access more than IOK+ Journals.
- › "RTraqR platform" helps in keeping track of the research progress of faculty members and students.

TERNA has been a recognized research center from 2014-15 in Electronics Engineering, Electronics and Telecommunication Engineering, IT and Computer Engineering and a separate R&D cell, and incubation /entrepreneurship cell to provide financial & infrastructure support to students and staff. More than 15 books, 20 patents and 1 copyright are published on behalf of TERNA. More than 6 faculties are working on consultancy projects worth 12 lakhs. 5 centres of excellence and more than 15 MoUs with leading industries. Further 850 research papers are published by the faculties and students from which more than 50% of papers are in UGC-recognised journals.

TEC has launched a Research Incubation Program where faculty and student groups are working on research problems.

LEARNING MANAGEMENT SYSTEM (LMS)

Well before the pandemic, TEC has been using the Learning Management System for creating, managing and distributing content and conducting assessments online. The professors at Terna were using the LMS to conduct online lectures, distribute reading material and conduct assessments and that too without a loss of a single academic day. We have been providing online assessments through ERP for the last 5 years. LMS offers a skill growth portal to assist and monitor continuous assessment and skill development. It also arranges Online lectures/hrough the Google meet platform.

RECOGNISED RESEARCH ORGANISATION (SIRO)

Terna Public Charitable Trust is a recognised Scientific and Industrial Research Organisation (SIRO). The recognition comes from the Department of Scientific and Industrial Research (DSIR), under the Government of India's Ministry of Science and Technology.

At A Glance

Recognised by: Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology

Valid: July 2025 to March 2028

Held by: Terna Public Charitable Trust

What It Means

- National recognition of the Trust's research capacity, giving its institutions access to research-linked government schemes.
- Terna Engineering College has been a recognised research centre since 2014-15, with a dedicated R&D cell and an incubation and entrepreneurship cell.
- Faculty and students have published more than 850 research papers, over half in UGC-recognised journals, along with 20 patents, a copyright, and 15 books.
- The college runs five Centres of Excellence and more than 15 industry MoUs, with faculty consultancy projects worth around Rs 12 lakh.

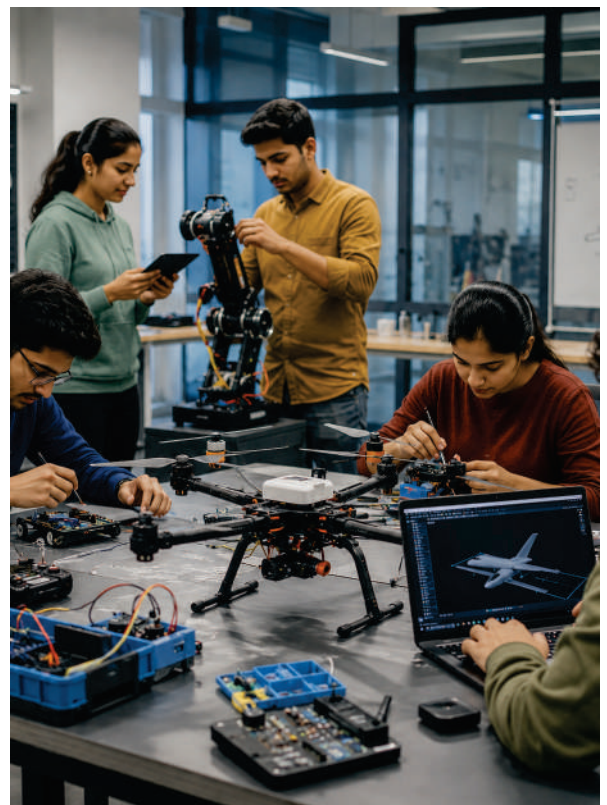


THE NIRMAN LAB

The NIRMAN Lab is the hands-on home for Terna's defence-technology programmes, where students design, build, and test their projects.

The Concept

- A build-and-test space shared by B.Voc & Engineering students and Honours students.
- Set up for prototyping, embedded systems, drones and UAVs, and simulation work.
- Linked to the EPIC product-innovation centre and the incubation cell for mentoring and project support.
- Open to live problems from industry and the defence ecosystem.



DEFENCE TECHNOLOGY: B.VOC AND HONOURS

Defence technology is a fast-growing field, and Terna offers two ways into it: a full skill-based degree and an honours track that sits on top of a B.E. or B.Tech.

■ B.VOC In Defence Technology

- A Bachelor of Vocation (B.Voc): a skill-based undergraduate degree built around labs, workshops, live projects, and internships.
- Open to students after Class 12 (HSC or equivalent), with eligibility as per programme norms.
- Part of Terna's B.Voc family, alongside the tracks in AI & Cybersecurity and Design.
- Built for employability, with industry mentors and placement support.



■ Honours In Defence Technology

- An honours track for B.E. students under the Honours and Minors framework.
- Adds defence-technology coursework and credits on top of the core engineering degree.
- Suited to students aiming for defence R&D, the DRDO and ordnance ecosystem, aerospace, and allied industries.



CIVIL-MILITARY INITIATIVE

The Civil-Military initiative connects Terna's engineering and defence-technology work with the armed forces and the wider defence ecosystem.

■ The Concept

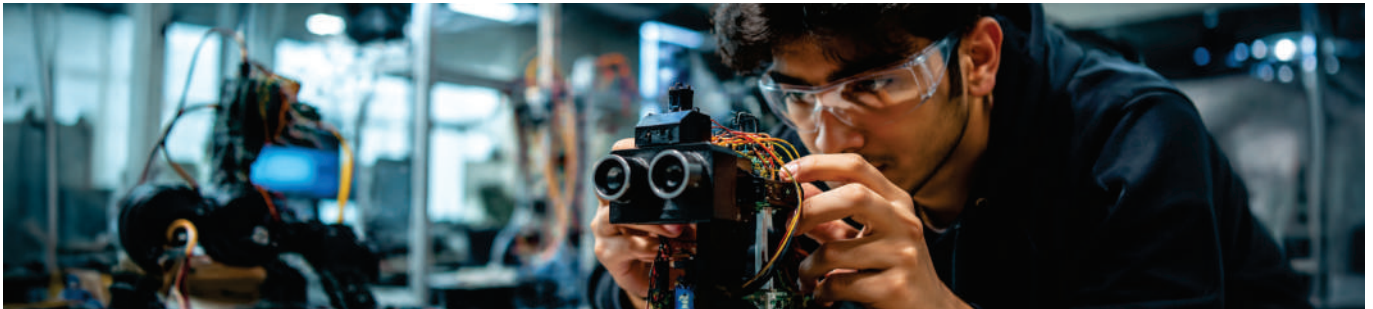
- Brings civilian engineering education together with defence and security applications.
- Room for MoUs with defence organisations and mentoring by serving and retired officers.
- Support for defence aspirants on campus, including NCC cadets and students preparing for the forces.
- Student projects on dual-use technology that serves both civilian and defence needs, working alongside the Defence Technology programmes and the NIRMAN Lab.





➤ **TERNA CENTER FOR INNOVATIONS & ENTREPRENEURSHIP (TCIE)**

The Terna Centre for Innovation & Entrepreneurship (TCIE) is mandated to fulfil the mission of TEC by way of balancing education with experience through entrepreneurial activities/projects to solve complex challenges faced by industries and societies. The Centre aims at creating a strong entrepreneurial Culture on campus and promoting innovations and entrepreneurship as a career and lifestyle option. TCIE offers co-working space, access to workshops & Labs, technology guidance, prototype development, business mentoring, and more.



➤ **ENGINEERING PRODUCT INNOVATION CENTRE (EPIC)**

The aim of the Engineering Product Innovation Center (EPIC) is to impart skills via Learning by implementing and focusing on bridging the gap between Academia and Industry under the guidance of highly-skilled industry leaders to make our students industry ready. Under the roof of EPIC, we encourage students to participate in Corporate contests/National Level competitions by providing 360-degree support. Till now we have completed 200+ projects and 100+ projects are under development like Delta Robot Design & Controller Interface, DoF Stewart Platform, Zeppelin on the go, Table Tennis robot, Automated pan-tilt unit for target tracking, ML-based project for Stock Market Prediction, etc.



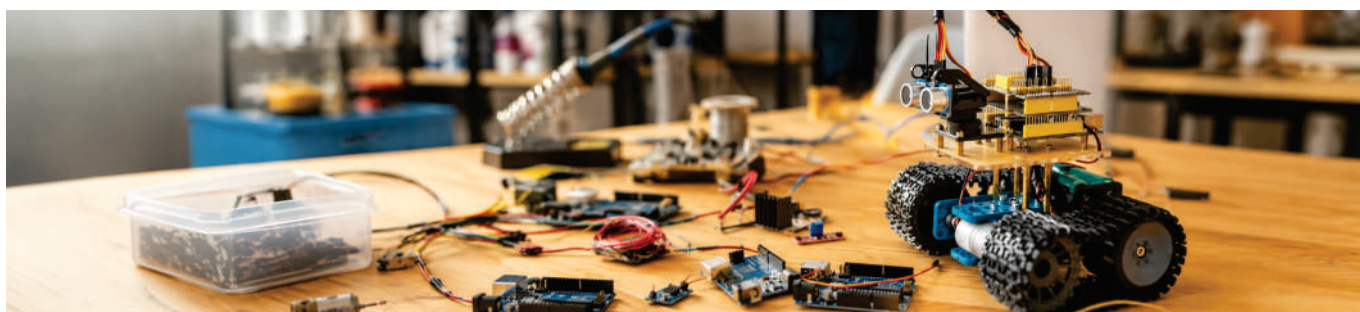
➤ **ENTREPRENEURSHIP DEVELOPMENT CELL (E-CELL)**

Our sole aim is to let the concept of entrepreneurship burgeon and evolve. We strive at building people with a strong work ethic who conceive and organize business ventures guided not by mere profit-making fervency, but by the inbuilt urge to innovate and take risks.



➤ **TERNA PHOTOGRAPHY FORUM (TPF)**

TERNA Photography Forum is designed to provide a platform for students where they can display their photography, videography, editing, and creative skills. It conducts multiple workshops and photo walks to boost the confidence of students.



➤ **TEC ROBO CLUB (TRC)**

This unique yet advanced club is made to promote robotics and embedded systems as career options. To prepare students for new technical challenges in the field of robotics, TEC Robo Club hosts various robotics competitions, seminars and workshops.



➤ **TEC ELECTRIC VEHICLE CLUB (Zeus)**

TERNA TEC Electric Vehicle Club helps to boost EV-centric interest via Formula Style Competition. It also aids students to grab EV-related opportunities as their career options.

EVENTS

TERNA REVIVE

REVIVE 3.0, the third edition of Terna Public Charitable Trust's flagship intercollegiate cultural festival, brought together students from across Mumbai and Navi Mumbai for a vibrant celebration of music, dance, comedy, creativity, and youth culture.

- ▶ *Student-led cultural festival with professional-scale execution, 60+ colleges participated*
- ▶ *Included solo singing, rap battles, a battle of the bands, a war of DJs, dance competitions, cultural showcases, sports and technical activities, and various workshops.*
- ▶ *Featured artists and personalities included Shankar Mahadevan, Mithoon, Terence Lewis, Kumar Varun, Siddharth Shetty, Tiger Pop, DJ TrapperX, DJ Rhea, DJ Aaryan Gala, and Molly Jain.*

With strong planning, seamless execution, and high-energy performances, REVIVE 3.0 stood out as one of the premier intercollegiate cultural festivals in the Mumbai Metropolitan Region.



TERNA CHA RAJA

Terna Cha Raja is the flagship Ganesh Chaturthi celebration of Terna Public Charitable Trust, bringing together students, faculty, staff, alumni, and visitors from all institutions under the Trust.

- ▶ *A celebration of unity, devotion, tradition, and cultural heritage*
- ▶ *Daily aartis, devotional programs, cultural performances, competitions, and community initiatives*
- ▶ *Strong participation from students across colleges and institutions*
- ▶ *Hands-on opportunities in event planning, hospitality, logistics, public relations, creative production, and volunteer management*

The celebration concludes with the Visarjan procession, leaving behind a strong spirit of faith, togetherness, and shared identity across the Terna family.

EQUINOX

International Conference For Research Scholars

Equinox brings together leading researchers, young engineers, academicians, industrialists and practitioners working in India and the rest of the world to disseminate their innovations and contemporary research in the field of Electronics, Electronics and communication, Mechanical, Mechatronics, IT, Computer Engineering and related fields.



AVALON

The Annual Technical Festival

AVALON, the annual technical festival of TEC is a light lamp enlightened by the faculty and students of TERNA to give an open platform to the undergraduate students to showcase their talent in the form of a Project Competition and Technical Paper presentation. The main goal of AVALON is to introduce students to emerging ideas in this fascinating and expanding world of science and engineering.



RESONANCE

The Annual Techno-Cultural Festival

Resonance is a stage which gives every student an opportunity to develop their personalities by participating and acquiring some proficiency in co-curricular activities. It also consists of tech-based, sports-based and cultural-based competitions.



SPORTEC

Annual sports gathering

Annual sports gathering looks at almost twenty sporting categories, which bring out the best in them. Various teams of cricket, basketball, football, chess, and carrom have participated in state-level/national-level competitions. SporTEC encourages mental alertness, ethical qualities and constructive social abilities.



HIGHER EDUCATION CELL



The Higher Education Cell of the TERNAL works to create awareness about higher education and to extend every possible help to the students for their PG courses like MS, MBA, M.Tech., etc, both in India and abroad. It is required to have a professional education in these specialisations after graduation. The cell facilitates the analysis of students with career choices and trains them with various levels of programs, workshops, and seminars for the overall development of the students in view of post-graduate and doctoral studies.

Objectives:

- ▶ Providing every possible help in the admission process through experts in respective fields.
- ▶ To raise the number of students going for higher education and produce better career opportunities for the TEC students.
- ▶ Various seminars, quizzes and competitions are organized to boost the confidence of students for higher studies. Along with this, the higher education cell also shares various success stories of alumni.
- ▶ Prepare students for the GATE examination with the help of GATE Solutions Academy. TERNAL has been sanctioned a grant from AICTE under Prerna Scheme for SC/ST students and running the coaching batches for GATE, and CAT by GATE Solutions Academy for all seven courses. 200+ SC/ST are availing of the benefits of the scheme.

TECAA ALUMNI CELL



The Alumni Association of Terna was started in the year 2003, with the sole aim of setting up an excellent network amongst our Alumni and College. The alumni Cell conducts various activities throughout the year with TECAA.

- ▶ The alumni portal is used to perform different alumni activities on which a total of 3464 alumni are registered.
- ▶ Alumni placement and internship program
- ▶ Batch ambassador program



HOSTEL FACILITIES

TERNA has one of the best hostels, Casa-Bella which is designed according to the comfort of students with top-notch facilities such as:



**Comfortable Beds
& Mattresses**



**Healthy Food
At The Canteen**



**Highly Ventilated
Rooms**



**Solar
Heater**



**24-hour
Warm Water**



**24/7
Electricity**



**Guest Room
Available**



**Capacity For
Boys - 189**



**Capacity For
Girls - 186**



WE CARE

TERNA has constituted a committee comprising administrators who are empowered to govern and ensure that relevant programs are formulated to achieve the goals, vision and mission of the college.

Internal Quality Assurance Cell (IQAC)

In pursuance of its Action Plan for performance evaluation, assessment and accreditation and quality up-gradation of our college. We have developed an IQAC or quality enhancement. IQAC has become a part of the institution's system and works towards the realization of the goals of quality enhancement and sustenance. The main objective of the IQAC is to develop a system for conscious, consistent and catalytic improvement in the overall performance of institutions.

📄 <https://ternaengg.ac.in/college-committee/iqac/>

Ombudsman

To ensure transparency by Technical Institutions imparting technical education, in processes and with the Paramount Objective of preventing unfair practices and providing a mechanism to innocent students for redressal of their grievances.

📄 <https://ternaengg.ac.in/ombudsman/>

Anti-Ragging Committee

As per the notification of AICTE in regards to the prevention and prohibition of ragging in the university, the anti-ragging committee has been formed in 2014 to prevent the freshers or other students from any sort of torture in the name of ragging.

📄 <https://ternaengg.ac.in/anti-ragging-committee/>

Women Development Cell

The Women Development cell of TERNA was established to create social awareness about women's problems and develop self-confidence. It helps to guard them against any kind of sexual harassment inside the college premises.

📄 <https://ternaengg.ac.in/womens-development-cell/>

SC/ST Grievance Redressal

The main objective of the cell is to Function as a Grievances Redressal Cell for the grievances of SC/ST students and employees and render them necessary help in solving their academic as well as administrative problems.

📄 <https://ternaengg.ac.in/college-committee/sc-st-grievance-redressal/>

Grievance Redressal

To ensure transparency by Technical Institutions imparting Technical Education, in admission and with Paramount Objectives of preventing unfair practices and to provide a mechanism to students for redressal of their Grievances.

📄 <https://ternaengg.ac.in/students-grievance-redressal-committee-sgrc/>

TERNA TRAINING AND PLACEMENT CELL

TERNA Training and Placement cell ensure skill-building is possible by planning it well in advance for every semester break and organising the Industrial training for Third Year and other Engineering students.

- Make students industry-ready by providing soft skills, aptitude, and technical training. Boost student growth by offering international certifications such as AWS, Microsoft, Oracle, Red Hat, Autodesk, 3D Printing, AI/ML, IBM, and MATLAB.
- TEC training program builds to reduce the gap between industry and students through guest lectures and mock interviews.

Career Opportunities in Industry (Placement)

The Placement Cell organizes career guidance programs for all the students starting from the first year and training programs like Mock Interviews, Group Discussions, Communication Skills workshops, etc. TATA Consultancy Services has accredited our college for placements, they are visiting our college every year for conducting Placement Training programs and Campus Interviews.

Top Recruiters



 Follow



 Connect



 Explore



 Plot No. 12, Sector-22, Opp. Nerul Railway Station, Phase-II, Nerul (W), Navi Mumbai 400706

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