

Terna Public Charitable Trust's

TERNA ENGINEERING COLLEGE

2023-24



LEADERSHIP

Hon'ble Dr. Padmasinhasaheb Patil is a most prominent statesman, philanthropist, Founding Member of the "Terna Public Charitable Trust" (TPCT) as well as our beloved President. He has dedicated his life to enriching the educational, social, and medical Services in Maharashtra.

As a statesman his tenure was exemplary; he has served as a Cabinet Minister and headed the Ministry of Home Affairs and the Ministry of Irrigation for the state of Maharashtra for more than 25 years. He was elected as a Deputy Leader of the opposition Legislative Assembly between 1995 to 2000.

Under his strong guidance, the TPCT was established, with a concentrated effort to cater educational and health services to all sections of society. His vision is instrumental to us in building the future of education.



HON'BLE DR. PADMASINHASAHEB PATIL
PRESIDENT



The Terna Public Charitable Trust

The Terna Public Charitable Trust (TPCT) was founded in 1980, by respected founding member and beloved president, Dr. Padmasinhaheb Patil. All our Trustees have dedicated their lives to social development and have philanthropic visions. From its humble origins, the trust currently operates 22 institutes of primary and secondary education, pre-university and tertiary education, offering multiple vocational courses, while serving a Speciality Hospital at Nerul, Navi Mumbai. We have grown steadily, and we further extend to cover a wide range of educational & health-related activities in the State of Maharashtra in near future. We are committed to the welfare of people from the most underprivileged strata of society without distinction of caste, creed, or color. We emphasize nurturing the children and youth who shall be responsible citizens of

Our institutes are mainly concentrated in Osmanabad and Navi Mumbai, with more than 18,000 students currently enrolled with us. We continue to serve strong from our astutely experienced trustee and the management team. This has enabled us to cater a wide array of courses, to all the students, and be a strong bond amongst the community.





DR. L. K. RAGHA

PRINCIPAL

Dr. L. K. Ragha was a research scholar at BARC, Mumbai in the field of “Technological, Environmental & Biological aspects of Microwave & communication fields” and he was awarded with a PhD. in Electronics Engineering from the University of Mumbai in the year 2011. He has been our guiding force as a principal of Terna Engineering College, for quality teaching, to focus on a ‘roadmap’, to encourage learning and for stern administration. His primary research interest is in microwave bioeffects and numerical simulation of radiating systems.

He carries an astute teaching experience of 36 years from elite engineering institutions for core engineering disciplines. He has 40 engineering research publications under his name in international journals and conferences, hence his teaching expertise covers core technical subjects in depth. He is a member of many professional societies and has supervised numerous research projects of graduate, postgraduate and doctoral studies.

Terna Engineering College

Terna Engineering College is one of the prestigious technical institutions, located at Nerul, Navi Mumbai.

The National Board of Accreditation (NBA) has accredited the majority of programmes for the institute. This is coupled with the dynamic curriculum, experienced & industry-associated faculty and first-hand experience with the latest technology. Terna Engineering College imparts education with the highest quality, with a focus on the field of engineering. The institute is spread across a 2.5-acre campus, with easy accessibility to public transport and a conducive, secure environment at Nerul, Navi Mumbai.



Terna Engineering College At A Glance

- ▶ NBA Accredited courses
- ▶ Achieved CII Platinum Ranking
- ▶ 'Award of Excellence 2023' by Media partner Outlook Business
- ▶ Exemplary academic performance of each batch of the Final Year Engineering ensuring Ranks in the University.
- ▶ Constant Industry Institute Interaction helping Students with necessary Industrial exposure.
- ▶ International Education Centre to guide students of higher education opportunities available out of India and assist them with the procedure.
- ▶ Memberships of elite bodies such as IEEE, IETE, CSI, and ISTE are readily available for students to encourage technical and industry knowledge transfer.

- ▶ 2.5 acres Campus with world-class infrastructure, world Class Auditorium and facilities including a Wi-Fi, Gym, Hostel, Cafeteria, vicinity from the railway station and 40,000 Sq. Feet Sports Turf.
- ▶ State of the art Automation enabled library with 30,000+ Books, 3000+ National – International Journals, Online journals library, Wi-Fi and a completely air conditioned reading Room.
- ▶ Hosts Annual International Level Conference “EQUINOX” where we invite faculty from overseas colleges to the campus.
- ▶ Clubs of E-Cell, Incubation Centre, Sixty Laboratories, Workshops, Electronic Workshop, Computer Centre, Dedicated Project Lab. that ensures active participation of students in various competitions/contests like Supra, hackathon, solar vehicle and many more.
- ▶ 600+Computers, Academic Intranet –Web-based ERP for smooth system administration.
- ▶ Labs with industry-ready Software for hands-on experience including Microsoft Academic Licence, Matlab Campus Licence, PTC’s IoT and Augmented Reality Platform, 1. OptiSystem, 2.OptiFDTD, ANSYS Academic Mechanical with CFD, IntelliSuite MEMS Software, Bentley Academic SELECT Subscription Campus, eScan Antivirus Software for SMB and Industry Grade CNC Machines.
- ▶ Apple’s Mac lab computers with High-end equipment from Agilent Technologies, Tektronix, Texas Instruments, Hewlett Packard and Aplab for Electronics Engineering, Electronics & Telecommunication engineering.
- ▶ Labs equipped with CAD facilities using Xilinx, Mentor Graphics, Cadence, AutoCAD, IE3D, OPNET tools, Solidworks, Ansys, PTC Creo, and Lotus.
- ▶ Online Attendance Monitoring System, SMS and E-mail notification system for students & parents.
- ▶ ‘Learning Management System’ for first-year students.
- ▶ Institutional Library membership to IIT Bombay, British Council, Membership to DELNET.
- ▶ Hosts annual Fun Frolic Cultural Festival, Competitive level Sports Tournaments and National International Technical Festivals.





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.
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Mission

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

- We are committed to imparting excellent education, employing meticulous methods that strive to enlighten the students to be industry ready.
- We endeavour to excel in education by improving the study programmes that can provide students with an experience, to obtain the best outcome, and also make it memorable and enjoyable at the same time.
- We are inspired to make students reach their maximum potential by participating in intellectual activities to help improve.
- We continuously strive to lead our students to the right path, to their best tomorrow.

Navi Mumbai Campus

- ▶ Terna Engineering College
- ▶ Terna Medical College
- ▶ Terna Dental College
- ▶ Terna Nursing College
- ▶ Terna Physiotherapy College
- ▶ Padma Yoga Sadhna
- ▶ Terna Global Business School
- ▶ Terna Speciality Hospital & Research Centre
- ▶ Terna Orchids The International School
- ▶ Terna Skills
- ▶ Terna Sports Institute
- ▶ Terna Vidyalaya
- ▶ Terna Design School

Osmanabad Campus

- ▶ TPCT's College of Engineering Osmanabad
- ▶ Terna Pharmacy College
- ▶ Terna Industrial Training Institute
- ▶ Terna College of Arts and Science
- ▶ Terna Janseva Kendra
- ▶ Terna Skills
- ▶ Terna Sports Institute
- ▶ Terna Vidyalaya
- ▶ Terna Institute of Drone Technology

Aurangabad Campus

- ▶ Terna International School

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	319026310	60	-	-	-	6
Electronics and Telecommunication Engineering	319037210	120	6	6	12	12
Computer Engineering	319024510	180	9	9	18	18
Information Technology	319024610	60	-	-	-	6
Mechanical Engineering	319061210	60	3	0	0	12
Mechatronics Engineering	319062410	60	3	3	6	6
Civil Engineering	319019110	60	-	-	-	6
Electronics Engineering	319037610	60	-	-	-	6
Bachelor of Design (Design)	319099610	30	-	-	-	0*
Bachelor of Design (Industrial Design)	319059410	30	-	-	-	0*



Programs offered

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

Doctorate (Ph.D)

Notable Features

- ▶ Well equipped for Skill-based laboratories hardware and software platforms such as Xilinx Vivado Software, test and measuring equipment, APLAB workbenches, PCB, Microprocessor, Electronics Instrumentation and Measurement / Power Electronics, Automation / Control Systems, Digital Integrated Circuit, Electronics Device, Electronics Design and Automation, Mentor Graphic for in-house projects, Assignments and Interdisciplinary Robotics for hobby projects.
- ▶ Published research work at national and international conferences.
- ▶ Industry interaction, visits, training and placement in domain-specific companies namely Giant Metrewave Radio Telescope, Hindustan Aeronautics Limited, JNPT, & Reliance Thermal Power Plant and many more.

Faculty at a glance

- ▶ Highly qualified faculty consist of PhD holders with one Professors and 11 Assistant Professors, who have released 200 research publications and 2 patents with them.
- ▶ Awarded Gold and Silver medals from NPTEL-Swayam.
- ▶ Hosted prestigious Faculty development program on six occasions Consistent and active Participation in National & International Conferences.
- ▶ Proactive in providing consultancy services to the industry players such as "Suyog Telematics Ltd." Mumbai a Telecom Infra company.

Student's Achievements

- ▶ Consistently producing university rankers year on year.
- ▶ 1st Prize in IoT based Portable Data Logger International competition of technical working model for rural development
- ▶ 2nd prize in category of Water Management
- ▶ 2nd Prize in category of Renewable Energy





Programs offered

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

Doctorate (Ph.D)

Notable Features

- ▶ Skill-based laboratories equipped with Hardware and software platforms such as Vector Network Analysis (VNA), Digital Storage Oscilloscope (DSO), RADAR, APLAB Test Benches and Spectrum Analyzer, MATLAB 20, Simulink, Opti system 16.0, Optical Network designing software, Antenna Designing Software, Radar designing Software, OFC & Microwave Lab, Television & Video Lab, Digital Signal Processing Lab, Advanced Simulation Lab, and Microprocessor Lab.
- ▶ Consistent Industry visits, training and placement in domain-specific companies such as ISRO, The Giant Metrewave Radio Telescope, AIR, LBS College of Advanced maritime studies and Research, etc.

Faculty at a glance

- ▶ PhD degree holders from prestigious institutes with years of experience in their respective fields of engineering.
- ▶ The academic team consists of 4 Professors and 2 Associate Professors & 15 Assistant Professors.
- ▶ Awarded Aviskar Gold Medal from the Government Of Maharashtra.
- ▶ Global Intellect Award for Best Teacher Central India Conferred by Asian society for Scientific Research.



Student's Achievements

- ▶ Consistently producing university rankers year after year.
- ▶ Filed 14 patents out of which 3 have been granted and received funds for Innovative projects from the All India Council for Technical Education (AICTE) Government Of India.
- ▶ Won national-level competitions like Hackathon, Avalon, Avishkar etc.





Programs offered

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

Doctorate (Ph.D)

Notable Features

- ▶ Skill Based laboratories equipped with Hardware and software platforms such as Graphics Lab, Software Development Lab, Network Lab, Linux Lab, Advanced Computing Lab, Systems Lab, Simulation Lab, etc.
- ▶ Industry visits, training and placement in domain-specific companies such as Tata Institute of Fundamental Research, TCS, Infosys, LTI, Wipro, Reliance, and Tech Mahindra.
- ▶ Research incubation program for budding researchers, with mentorship from NITs and IITs.
- ▶ Project-based learning system EPIC with an industrial mentoring system for final-year students.
- ▶ Projects based on the latest technologies such as flutter, React JS, Android, Cloud Computing, Deep Learning, Internet of Things (IOT), and Blockchain are reviewed by experts from TCS, Infosys, LTI and other software industries.

Faculty at a glance

- ▶ The academic team consists of 3 Professors and 6 Associate Professors & 21 Assistant Professors
- ▶ Highly qualified, experienced and PhD. holders faculty with 300 research publications.
- ▶ Best paper awards, research funding, registered patents and represented institutes at the international level.

Student's Achievements

- ▶ Consistently producing university rankers year on year.
- ▶ Department has incubated 'Prizalo Enterprize', a startup by computer engineering students.
- ▶ Won cash prizes & positions in various hackathon Competitions such as Rajasthan Hackathon in 2018, Manipal Hackathon 2019, Smart India Hackathon 2019, Smart Virtual Hackathon 2020, and Smart India Hackathon 2022.





Programs offered

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

Doctorate (Ph.D)

Notable Features

- ▶ NBA Accredited
- ▶ Skill-based laboratories equipped with Hardware and software platforms such as Distributed Computing Lab, Info-science Lab, Infotech Lab, Open Source Lab, Micro Computing Lab, and Apple Multimedia Lab.
- ▶ Industry visits and training at companies such as Opulent Infotech Pvt. Ltd., ESDS Software Solutions Pvt. Ltd. and Nashik Engineering Cluster.

Faculty at a glance

- ▶ The academic team consists of 2 Professors and 3 Associate Professors & 7 Assistant Professors
- ▶ Highly Experienced Ph.D. holders faculty with more than 100 research publications work and well-versed in the latest technology & techniques like Big data, Machine Learning, Data Science, BlockChain technology, and AI with the mold of basic technologies.

Student's Achievements

- ▶ 50+ students' papers are published in Scopus Journals.
- ▶ Students won cash prizes & positions in various hackathon Competition such as Smart India Hackathon 2017 with 2nd Rank, won Cash Prize, stood 2nd Rank in UI Path Hackathon 2020





Faculty at a glance

- ▶ The academic team consists 4 PhD holder faculty with more than 25 years of experience in the domain along with dedicated 14 assistant professors who are pursuing the PhD.
- ▶ Conducted Online Faculty Development Program on “Innovation, Entrepreneurship and its Relevance in Industry 4.0” to help keep them aware of current trends of the industry.
- ▶ The department is having around 250 research papers from faculty and student in the of domain thermal Manufacturing & design

Student's Achievements

- ▶ Received 10000 USD dollar as an international grant for two projects, Solar air conditioning using nanofluids and storage of thermal energy using phase change material (PCM).
- ▶ National Level “Best Innovation Award” In National Electric Kart Championship at Bhopal

Program offered

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

Notable Features

- ▶ Computer-Aided Design lab with workstation and latest software for Design and Analysis such as PTC Creo and ANSYS.
- ▶ Commercial licence from Ansys, Inc. for Research Work and Projects. Production Grade CNC Lathe and VMC machines.
- ▶ State-of-the-art labs with high-end equipment in HAVC, FM, MQE, and SOM Lab.
- ▶ Superior Machine Shop with “Centre of Excellence” recognition from “GODREJ & BOYCE”.
- ▶ Only College which is having Heavy duty Press Machine of Industry grade.
- ▶ 100 TON Fully Computerised UTM Machine to perform Testing and to take larger readings.
- ▶ Solar air conditioning System for CAD Lab.
- ▶ Encouragement for publishing the work at national and international conferences.
- ▶ Efforts through the Department T&P coordinator for placement in the domain-specific Industries.
- ▶ Department is equipped with State-of-the-Art Laboratories where students learn and perform required academic practicals apart from their regular practical and theoretical classes.
- ▶ Associated with the USA based Society American Society of heating, refrigerating, And Air Conditioning Engineers (ASHRAE) and the Indian Society of heating, refrigerating, And Air Conditioning Engineers (ISHRAE) for Student project participation to keep themselves abreast with current technologies.
- ▶ Departmental Workshop has received a Center Of Excellence certification from Godrej & Boyce where the department has conducted several training programs related to CNC Technology.

Program offered

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

Notable Features

- ▶ First Institute In Maharashtra to start the Mechatronics Engineering program affiliated to Mumbai University in 2014.
- ▶ Skill Based laboratories equipped with Hardware and software platforms such as CAX Lab, VIEW Lab, CNC Lab, Applied Hydraulics and Pneumatics Lab, and Instrumentation and Control Lab.
- ▶ LabVIEW Lab for Advanced Hardware in Loop System Simulation & Centre of Excellence in 3D printing in collaboration with Anet Inc.
- ▶ Industry collaboration for student training with B&R Automation, SMC, Festo, Beckhoff, Christiani Sharpline, and Intelligence.



Faculty at a glance

- ▶ The academic team consists of 1 Professor and 1 Associate Professor & 7 Assistant Professors
- ▶ Highly qualified faculty with PhD and master's degrees from internationally reputed universities in USA, Thailand and India.
- ▶ Industry experience in government organisations such as BARC and DRDO. Prof. Govind Kankath Krishnan Nair: Received certificate of merit from Dr APJ Abdul Kalam and Chief of Naval Staff for specific contribution.

Student's Achievements

- ▶ Electric Solar Vehicle Competition SVC 2019 won the ISIE Future award
- ▶ NI-Yantra 2016 & 2017 reached runner-up position
- ▶ Mechatronics Skill 2018 reached a Regional level position
- ▶ National Electric kart championship 3.0 in 2019 won the best innovation





Program offered

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

Notable Features

- ▶ Skill-based laboratories equipped with hardware and software platforms such as Fluid Mechanics, Engineering Geology, Surveying Building materials & Concrete technology/ Advance concrete technology.
- ▶ Fully Automatic Compression Testing Machine 2000 Kn (NABL Certified), Universal Testing Machine (UTM 100 Ton-NABL Certified), Total Station for Professional Surveying.
- ▶ Consultancy Services Offered for Non-Destructive Testing.
- ▶ Industrial Visits - CIDCO, PWD, MMRDA, Rock Museum Nashik, Internship for Students.
- ▶ International Students Chapter Association & Merit Scholarships.

Faculty at a glance

- ▶ The academic team consists of 1 Associate Professors & 8 Assistant Professors.
- ▶ Ph.D. scholars from reputed universities with relevant experience in the Design & Execution of Residential, Commercial, Oil & Gas, and Power Projects in the Field of Smart Materials & Smart Structures, etc.
- ▶ Served the editorial boards of national and international journals, reviewed technical articles for journals on a regular basis, and organised international symposia and conferences. One faculty awarded the Best International Young Faculty Award by IACRD, the USA in 2019.

Student's Achievements

- ▶ Three students received Merit Scholarships from IC-American Concrete Institute.
- ▶ Students Secured 1st position in the All India Students Concrete Cube Competition 2019 organized by the India Chapter of the American Concrete Institute.





Programs offered

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

Notable Features

- ▶ Offers intensive input in the domain of machine learning and big data analytics along with the core fields such as artificial intelligence (AI), data mining and data modelling.
- ▶ Designed to enable students to build intelligent machines, software, or applications with a cutting-edge combination of machine learning, analytics and visualisation technologies.
- ▶ Emphasis on learning through applications and systems based on machine learning that analyses historic data to predict so that the target output can be completed using minimum resources, and extract knowledge, along with AI methods based in different fields, including neural networks, signal processing, control, and data mining, in order to present a unified treatment of machine learning problems and solutions.
- ▶ Department is a member of the Computer Society of India (CSI) and Indian Society for Technical Education (ISTE), which provides students with Government Sponsorship and exposure of national and international forums to interact with higher statute professionals.
- ▶ Provided Online learning platforms Code Zinger, a coding lab institution introduced an interactive book from a platform named “LynxE” during the pandemic.

Faculty at a glance

- ▶ Phd degree holders from reputed universities consist of 1 Associate Professor & 2 Assistant Professors who have more than 30 publications of international levels and 74 citations till date.
- ▶ Regular invitees for participating in national international conferences and seminars for guidance on the subject.
- ▶ All faculty members are pro in advanced technologies.



Student's Achievements

- ▶ AI & DS students participated in various coding competitions and won several prizes



Programs offered

Bachelor of Design (Design) 4 year full time

Bachelor of Design (Industrial Design) 4 year full time

Notable Features

- ▶ First Institute to offer B. Des program affiliated to Mumbai University. World-class labs and studios.
- ▶ Proposed studios of CAD, Photography, Ceramic, Clay and Paint, Metal studio.
- ▶ Students can study design, fashion, co-design, design leadership and sustainable development.
- ▶ State of the art infrastructure consists of technology and art studios such as AR/VR, CAD, design studio, 3D printing machines and laser cutting machines. Industry Alliances with Tech Mahindra, Godrej, TCS, Infosys, and many more. Industry visits, training and placement in domain-specific companies and placement assistance for up to 5 years.

Faculty at a glance

- ▶ Ph.D. and M.Tech degree holders from IIT and premier institutes.
- ▶ 01 Professor and 02 Assistant Professors with 100 research publications and 2 patents under their belt.
- ▶ Consistent and active Participation in National & International Conferences and Journals.
- ▶ Engage in consultancy services to the industry.



General Engineering Department

The budding engineers begin their journey through the Department of First Year Engineering. The aim of the General Engineering Department is to prepare strong foundations for students so we constantly keep upgrading our facilities, laboratories, technology and teaching methodologies. The Department trains the students of every UG program at the first-year level to strengthen their Scientific, Mathematical and Technical base.



Laboratory information

- Auto Cad Lab, Engineering Mechanics Lab
- Communication Skill Lab, Physics Lab
- Chemistry Lab, Basic Electrical Labs
- Basic Workshop Practice

Faculty at a glance

- ▶ The academic team consists of 4 Associate Professors & 32 Assistant Professors.
- ▶ The faculty of TEC has nearly 100 research publications, 2 patents and 3 books published to their credentials.

First Year Student Induction Program

The induction program is designed to ensure our students feel comfortable and encouraged towards their journey of academics of their interests. It is designed to inspire them to work for excellence and promote bonding. Here students are presented with an orientation of the institute, introduced with their mentors, familiarised with their Department along with workshops conducted by Eminent personalities. The session is interaction based incorporating creative arts, cultural values, literary activities, Proficiency Modules and importantly the Universal Human Values.

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

Digital Terna Central Library has set up Digital Library with over 16 laptops working in a networked environment through connectivity provided by TATA using a 500 Mbps high-bandwidth Leased line.

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.
- Participation in a training program on Embedded Linux from Xilinx Inc, Apple's iOS development program in India, and Texas Instrument (TI) University program.
- 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.
- 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
- ATS MOU/IV Program for- Microsoft Certifications and Autodesk / Autocad Certifications with Training.
- Implementation of Industry Institute Partnership Cell (IIPC) Projects by Faculties and Students.

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 10K+ 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 through the Google meet platform.

(TCIE) Terna Center for innovations & Entrepreneurship



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.

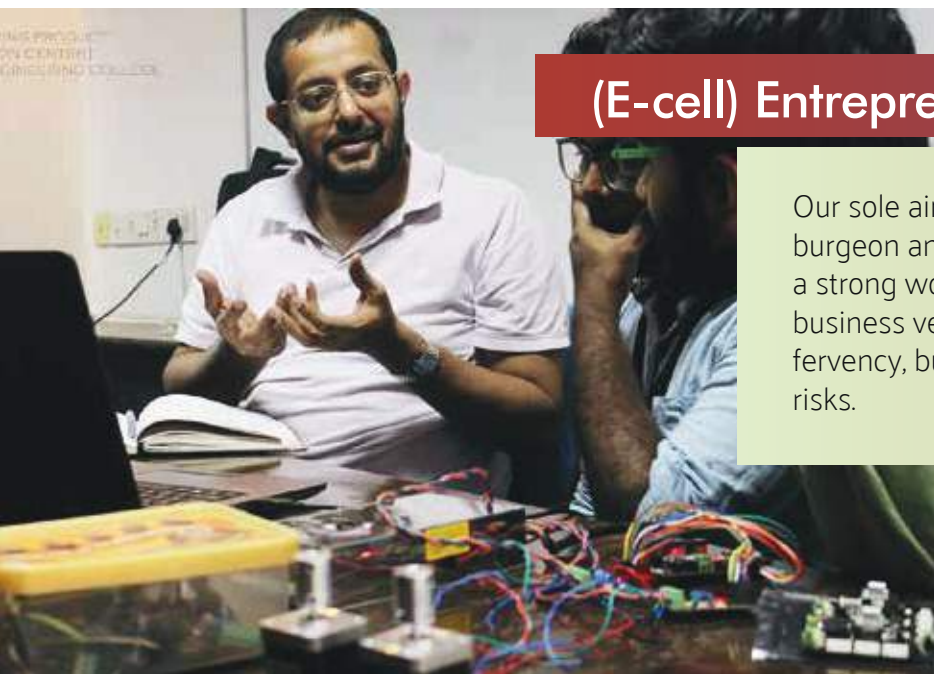
TCIE offers co-working space, access to workshops & Labs, technology guidance, prototype development, business mentoring, and more.

(EPIC) Engineering Product Innovation Centre

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.



(E-cell) Entrepreneurship Development 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.

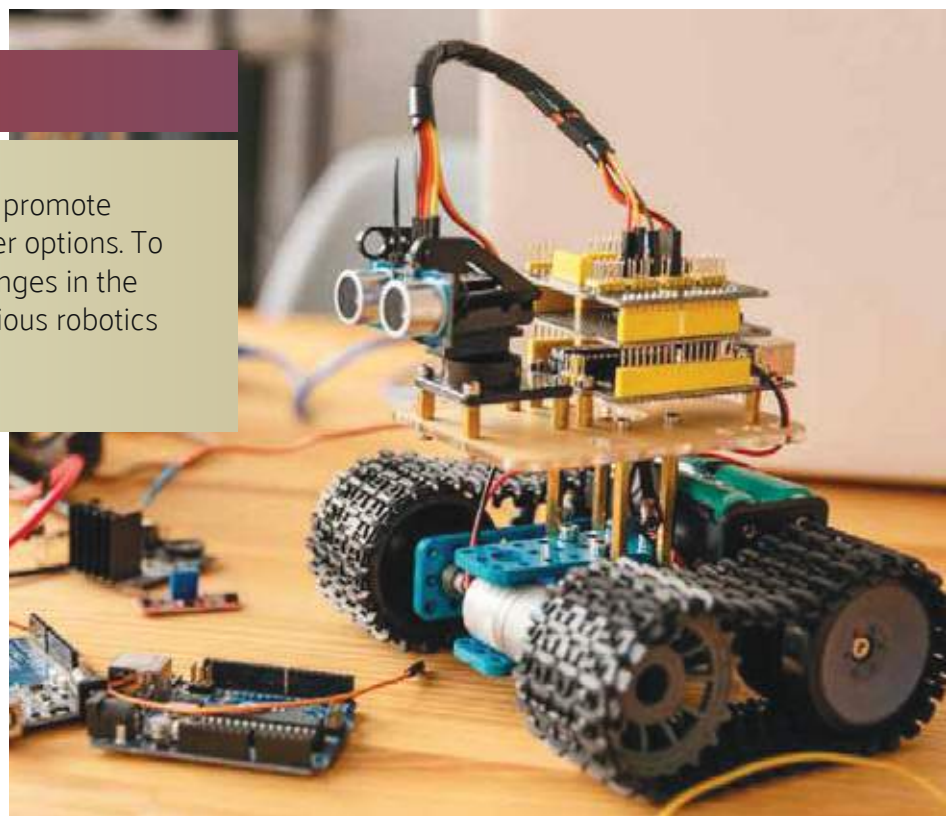


(TPF) TERNA Photography Forum

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.

(TRC) TEC Robo Club

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.



(Zeus) TEC Electric Vehicle Club

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.

EVOLVE Terna Public Charitable Trust

- Football competition:- Terna host various intercollege competitions including football tournaments.
- Food Fest:- Food Carnival, where you taste different cuisines.
- Education Fair:- The intellectual event full of workshops, debates and discussions.



IGNITE New Incubation start-up data

- IGNITE is Maharashtra's biggest inter-college startup ideathon competition which is organised to generate more new and creative ideas through students' minds. IGNITE provides a big platform for students to showcase their talent and innovative ideas.
- Successful Incubation Story
 - **Campus Me**
 - **“Campus Me”** was a dream of “Saiganesh Menon” from our 2016 Batch, Alumni of the Electronics Engineering department that facilitated the student to Buy/Sell/Exchange Books, Electronics boards, and Drawing equipment online and eventually launched their Store chain on various Campuses in Institutes.
 - **Branditize Enterprises**
 - Three students, Mr. Harshal Patil (Founder) along with Ms. Vaishnavi Manchanda & Shivprakash Bansode (Cofounder) of the Computer Engineering department have established **Branditize Enterprises**. It provides activity-based services for human resource development with the help of technology, having tied up with corporate trainers and companies.
 - **Skrappnest Enterprises**
 - A student (Mr. Sanat Patil) of the Information Technology department is the founder. It is an online scrap collection service in an area having tie ups with various shops of areas and provides coupons to customers.

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 TERNA 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. TERNA 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 and 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



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/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/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/sc-st-grievance-redressal

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





Terna Public Charitable Trust's

TERNA ENGINEERING COLLEGE

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