

2017-18

Teerthanker Mahaveer Faculty of Engineering



**TEERTHANKER
MAHAVEER UNIVERSITY**

Moradabad

VISION

To be recognized as a premier institution of excellence providing relevant quality education, research and consultancy services to the society.

MISSION

Our endeavor is to impart knowledge and develop critical skills necessary to succeed both in professional and personal life by promoting learning supported by world-class faculty, infrastructure, technology, curricula and collaborative teaching and research with premier institutions in India and abroad.

FOCUS

We, at Faculty of Engineering, strive to ensure the highest level of employability by strengthening our students with real engineering centric knowledge and applications of science. Continuous 360 degree feedback mechanism from industry is used to impart the needed skills and value addition modules designed & delivered in collaboration with domain experts.



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From the Desk of Director, Faculty of Engineering



No single thing since last five thousand years has impacted the human race the way science & technology has. Engineering & science education is key driving force behind any change. Education in engineering and applied science is not only limited to the study of “machines and materials”, or “systems and processes” or “design and manufacturing” it is all pervasive “Art of Application”. It is not only about securing marks or about getting a degree; it is all about multiple facets like being a team player, leader, entrepreneur and disrupting the conventional way of doing things.

Technical education is at the cross road today as the biggest challenge being low employability and lack of skills required by industries of passing out engineering graduates from various institutes. We, at Faculty of Engineering, have a unique distinction of solving this real problem in the region by having collaborative programmes along with industries and renowned training institutes embedded within the curriculum to hugely enhance employability of our students.

Students joining the college will experience an enriching environment during the entire period of stay in the campus by sharpening of skills in laboratories, doing live projects, participation in co-curricula, attending workshops, skill & value based training and performing in various extra-curricular activities under guidance of faculty and experts from industries.

- Prof. Ajay Ruhela
Director, Faculty of Engineering

Our Strength



PROGRAMS OFFERED

PROGRAM	APPROVING REGULATORY AUTHORITY
B.Tech. <ul style="list-style-type: none"> Mechanical Engineering Civil Engineering Computer Science & Engineering Electronics & Communication Engineering Electrical Engineering 	<ul style="list-style-type: none"> All India Council for Technical Education (AICTE)
B.Tech. (LE) <ul style="list-style-type: none"> Mechanical Engineering Civil Engineering Computer Science & Engineering Electronics & Communication Engineering Electrical Engineering 	<ul style="list-style-type: none"> All India Council for Technical Education (AICTE)
B.Sc.(Hons.) <ul style="list-style-type: none"> Maths Physics Chemistry 	<ul style="list-style-type: none"> TMU is empowered to award degrees U/S 22 of UGC Act, 1956
M.Sc. <ul style="list-style-type: none"> Maths Physics Chemistry 	<ul style="list-style-type: none"> TMU is empowered to award degrees U/S 22 of UGC Act, 1956
Ph.D. <ul style="list-style-type: none"> Engineering Applied Sciences 	<ul style="list-style-type: none"> TMU is empowered to award degrees U/S 22 of UGC Act, 1956

Academic Structure

Faculty of Engineering works with an objective of giving a holistic approach to professional higher education. The college intends to create an ambience, which is intellectually and aesthetically stimulating for the community in college campus. In the pursuit of its objective, through out the year various activities i.e. cultural, intellectual activities, workshops, conferences & seminars are organized to conduct to sensitize academic world to other dimensions of human experience and knowledge, with the hope that this would enrich the lives of students and make them aware of their social responsibilities.

Culture

It is the spirit and culture of FoE, TMU that students imbibe and carry over wherever they go. As young minds they are paving their path of development and becoming responsible citizens.



Curriculum Choices

A wide choices to the students in Engineering and Applied Sciences. Courses are being revised time to time to meet the industry requirements. The value and skill based courses are introduced to achieve high level to employability.

Mentoring of individual student is a unique feature which helps students a lot in shaping their future. We also coach our students to make them more competitive.

Mentoring & Coaching

Why Choose TMU ?

- UGC approved 135 programs across 20 on-campus colleges
- 14000 students from all over India, as well as from countries like Bhutan, Nepal, Nigeria, Maldives and South Sudan
- 950 well qualified and experienced faculty
- State-of-the-art infrastructure spread over 140 acres of land with 55,00,000 sq.ft. (5,11,000 sq mt) of constructed area
- 1000 bed multi super specialty hospital
- Separate hostels for boys and girls to accommodate 4600 students
- Well stocked separate library for each college having more than 1,60,000 books
- Subscription to 470 research journals
- Access to 7455 research journals through EBSCO, DELNET database, Manupatra, Shodhganga, Clinical Key and Micromedex 2.0
- Top of the line Microsoft ERP system
- Wi-fi enabled campus with broadband connectivity across the campus
- 24 hrs. uninterrupted power and Reverse Osmosis (RO) water supply across the campus
- State-of-the-art air conditioned auditorium with 550 seating capacity
- On-campus, furnished residential accommodation for faculty along with a guest house for the visitors
- Modern and world class Indoor stadium with facilities for basketball, volleyball, badminton, tennis, table tennis, squash, chess, wushu and yoga
- State-of-the-art air-conditioned gymnasium with a fitness centre
- Excellent sports infrastructure and facilities for games viz. cricket, track & field events, football and hockey
- Home to modern shops and eateries open to students and staff
- Banking facilities including lockers and ATM on-campus with on the spot sanctioning of educational Loan
- Liberal scholarship schemes on merit-cum-means basis
- 2 well-equipped language labs to encourage efficient soft skills
- University has a tie up with Dale Carnegie for training the students in soft skills
- The University has been conferred with:
 - ◆ The Best Private University of India award by Journalists Federation of India
 - ◆ “Rajiv Gandhi Excellence Award” as Best Higher Education Institution by Pahchan – International Social Organization
 - ◆ CIDC Vishwakarma Award for outstanding contribution towards Mission Skilling India
 - ◆ CIDC Partner in Progress Trophy
- Member of various professional bodies as well as of Association of Indian Universities and of QAI Global Institute Inc.
- Absolutely Ragging free environment
- Regular interactive sessions with eminent personalities from industry and academia
- Strong industry-university interface with collaborations with IL&FS – Skills, IBM, Microsoft IT Academy, i-Nurture, AutoCADD, Prolific, CADD centres etc.
- Excellent placement track record with strong alumni connect

About the University

The Teerthanker Mahaveer University was established by an 'Act' (No. 30) of 2008 of the Government of Uttar Pradesh and was approved by the University Grants Commission (UGC), since inception in 2008, vide letter No. F. 9-31/2008(CPP-1) dated October, 2008. The University is located on National Highway-24, 144 Km from New Delhi. The University stands committed to the ideals of Lord Mahaveer- Right Philosophy, Right Knowledge, and Right Conduct in all the spheres of activity and aspires to be recognized as the ultimate destination for world class education. At the same time, the University is responsive to the changing and exceptional requirements of our society and economy and contributes to find answers to global problems.

Known for excellence in academics and innovative research, the multi-disciplinary University offers a wide range of undergraduate concentrations, master's programs and doctoral degree across diverse streams, namely, Medical, Dental, Pharmacy, Nursing, Paramedical Sciences, Physiotherapy, Hospital Administration, Physical Education, Engineering, Architecture, Polytechnic, Law, Journalism, Fine Arts, Language Studies, Jain Studies, Women Studies, Disability Studies, Directorate of Distance Education and Agriculture to meet rising aspirations of the youth. Most of these programs have been developed after an initial survey of the demand for such Programs.

TMU provides a unique environment for students to grow under the guidance of experienced academicians and to acquire creative, innovative and technical skills which are required to make the students industry ready. Our talented faculty and staff form a dedicated team committed to the mission of the University. It is a dynamic, research intensive University committed to the development of life-saving discoveries and new technologies to tackle some of the most pressing global challenges.

The programs offered are designed to equip graduates with the necessary skills and expertise, to be the leaders in their chosen profession. The key to the success lies in the high premium it places on innovation, along with the work that is done by different role players and stakeholders to promote the University achievements in the fields of Medical Science, Engineering and Technology. This is being achieved through a benchmarking system, which ensures that training and research programs always meet the highest standards.

Education at TMU is not just about books and classrooms but also about overall personality development and honing special skills. It provides an environment conducive to teaching and learning adequately supported by innovative academic and research programs and practices.

The University has well qualified and experienced faculty, state-of-the-art laboratories and research facilities, well planned residential space along with a great eco-system for extra and co-curricular activities. The campus is fully wifi enabled and uses the latest technology to impart education. With the availability of these important building blocks of a top-notch institution, TMU enjoys a unique position to facilitate the all round development of students to help them acquire the ability of lifelong learning and to make them competent professionals as well as good human beings.



About The College



With India being in a renewed growth path and nationwide focus on manufacturing coupled with “Make in India” & “Skill India” as a strategic policy of Government of India , the country is expected to be a global leader in manufacturing in coming years and we, at Faculty of Engineering, are well positioned to provide the best to our students and prepare them for tomorrow’s India.

Faculty of Engineering, approved by AICTE in year 2016 & accredited by NAAC in 2016, is the centre for academic excellence in Engineering and Science education with strong emphasis on skill based & value added training for achieving high employability by the time the student graduates. The Faculty was initially established as College of Engineering in 2008 and later on got renamed as Faculty of Engineering post AICTE approval.

Our student centric approach helps in meeting the need of industry for trained technical manpower with practical skills and sound theoretical knowledge. The learning process is supported by unique enhancement programmes embedded as part of regular curriculum. Strong linkages with industries & best of training institutes help the students in getting professionally trained by getting exposed to latest industrial trends and learning to become competent engineers suitable for the industries. Latest state of art labs and workshops are available for practical & hands-on training.

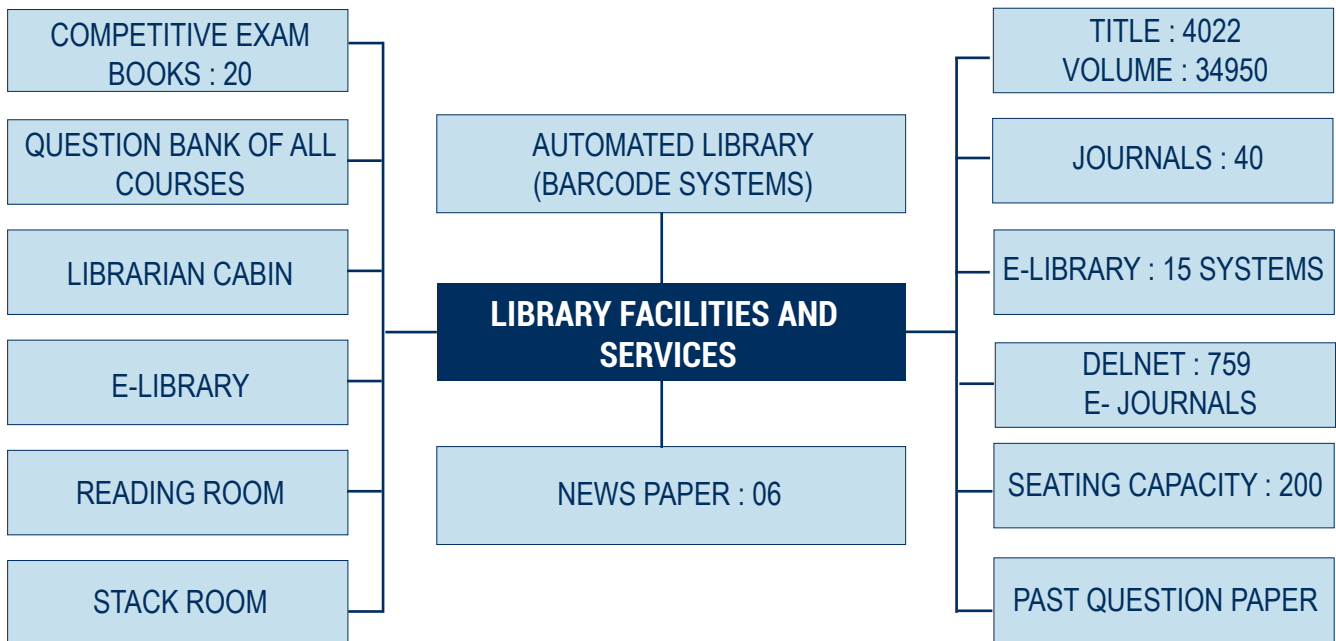
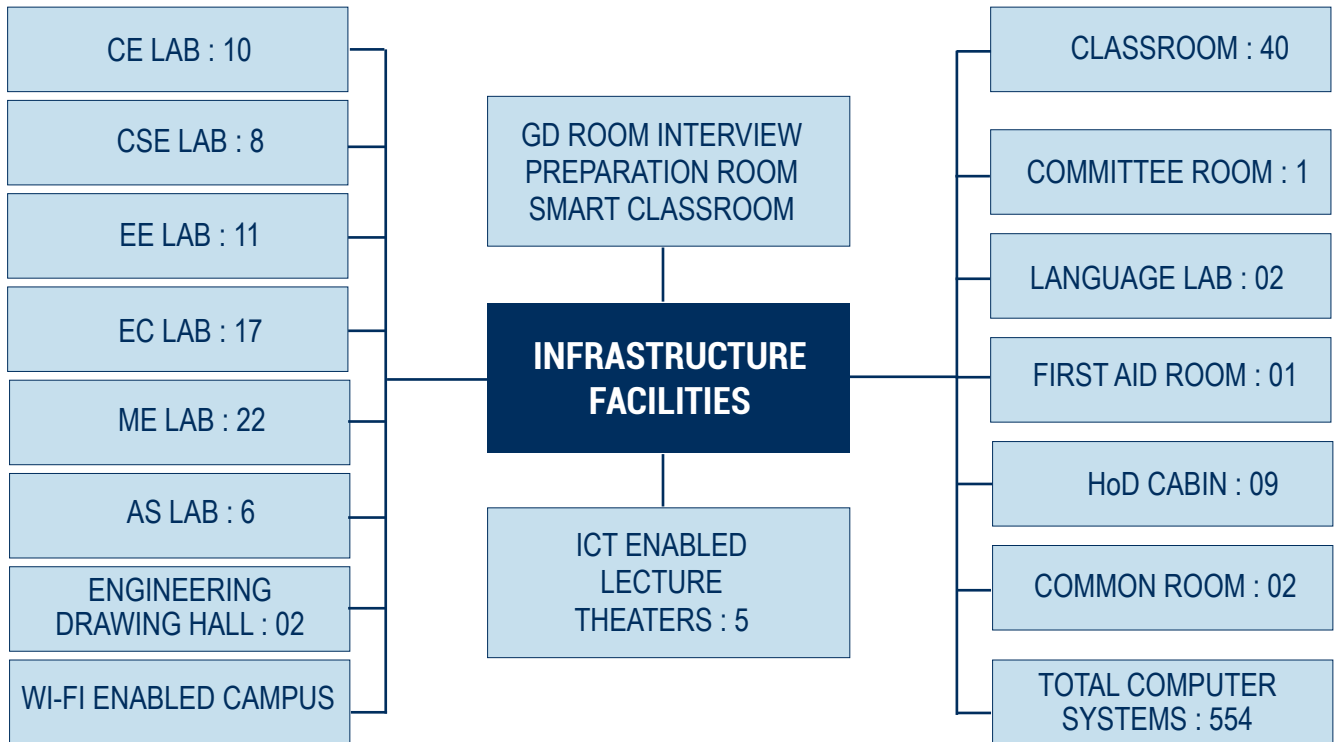
The College has nine operational academic departments with competent Faculty members who are fully devoted in preparing the students to enter into the professional world. The college offers programmes at Under Graduate, Post-Graduate and Doctoral level, covering major branches of engineering and sciences which are being revised time to time to meet the industry requirements. With core branches of engineering i.e. Mechanical, Civil, Computer Science, Electronics & Communication and Electrical Engineering, our students learn how to analyse and solve technical problems with an objective to become problem solvers.

Interdisciplinary learning opportunities are provided to all students to make them excel as problem solvers. Latest technologies such as IoT (Internet of things), Android programming, microcontroller programming, programming logic controller, CAD, three dimensional modelling, simulation tools are taught to solve problems in any field of engineering and science by industrial experts.

The Faculty provides consulting services to various organizations to stay connected with latest industrial trends and solve real life engineering problems. The college has entered into partnerships with leading industries & institutes to get experts from various field for organising value added and skill based training at college premises.

Extra care is taken to ensure proficiency in communication and leadership skills, leading to a well-rounded personality with independent, entrepreneurial traits among students for a better interface with the corporate world. Furthermore, Meditation and spiritual lectures are conducted to keep their body mind and soul in harmony.

College Highlights



Department of Mechanical Engineering



Mechanical Engineering department provides training and inculcates knowledge in the field of basic mechanical engineering and offers a choice of various electives subjects such as automobile engineering, engineering materials and computer aided design & manufacturing. Excellent labs, test machineries, machine shops, foundry and infrastructure provide ample opportunities for theoretical and practical learning to become a true engineer.

Students get value enhancement & skill development training in AUTOCAD 2D, AUTOCAD 3D, MATLAB, SolidWorks, ANSYS, Creo to learn various tools and techniques used now a days as standard industrial practices improving employability to a great extent.

Department of Civil Engineering

Civil Engineering department provides training and inculcates knowledge in the field of civil engineering with various options to cater interest areas like Industrial Pollution Control & Environmental Audit, Earthquake Resistant Structures, Irrigation Engineering & Hydrology, Pre-stressed Concrete, Remote Sensing Applications, Hydro Power Engineering, GIS Applications and Bridge Engineering. Excellent labs, machineries and infrastructure provide ample opportunities for theoretical and practical learning to become an engineer in true sense.

In addition students get value enhancement & skill development training in AUTOCAD 2D, AUTOCAD 3D, Staad.Pro, AUTO DESK QUANTITY Takeoff to learn tools and techniques used today as standard industrial practices improving employability and also enable them to develop as an independent consultant.



Department of Electronics & Communication



Electronics & Communication Engineering department provides training and inculcates knowledge in the field of electronics and communication field with various options to cater interest areas like Information Theory & Coding, Power Electronics & Application, Embedded Systems, VLSI Design & Technology. Excellent labs and infrastructure provide ample opportunities for theoretical and practical learning to take challenges in the field of Industrial Automation, Electronic design and Telecommunication and Mobile technology.

In addition, students get value enhancement & skill development training in SPRINT, MATLAB, PLC, SCADA, Embedded programming of microcontroller and VLSI design software to learn tools and techniques used today as standard industrial practices with an objective to improve employability.

Department of Electrical Engineering

Electrical Engineering department inculcates knowledge and provides training in the field of electrical engineering, various options as elective subjects are available to cater interest areas like power electronics, power systems, generation, transmission and control engineering. The well-equipped electrical labs provide an excellent opportunity to the students for developing in depth practical learning in fundamentals & applications of electrical engineering.

In addition, students get value enhancement & skill development training in MATLAB, Programmable Logic Controller, SCADA & Embedded systems programming to be prepared in line with today's industrial needs and Job demand.



Department of Mathematics



The Department of Mathematics provides one of the best teaching and research facilities for under – graduate level (B.Tech. and B.Sc.) and post-graduate level (M.Sc.). It also provides the world class facility and environment to the research scholars and develops the skill to apply the logic of mathematics in various sectors like industry, research, medical, pharmacy science etc. The Department of Mathematics covers all the topics of Pure mathematics and Applied mathematics.

Faculty members of the department are engaged in research and teaching on various areas of Mathematics, like Numerical Analysis, Fluid Dynamics, Operations Research, Reliability Theory, Partial Differential Equations, Optimization Techniques , Real and Complex Analysis, Algebra and Topology, Fuzzy Logic and Set Theory, Differential Geometry , Mathematical Programming, Biomathematics , Finite element modeling

Department of Physics

The Department of Physics imparts high class education in undergraduate and postgraduate level to students of Engineering, Physics, Chemistry and Mathematics stream. Apart from training students in theoretical physics such as Quantum mechanics, Solid state physics, Nuclear physics, Computational Physics and other areas. Department also provides top of the class experimental session in Molecular dynamics, Optics, Statistical Physics , Thermal and Laser physics. Well equipped state of art laboratories is the core strength of the physics department which is well known in the entire northern zone.



Department of Chemistry



The Department of Chemistry is a leading department of its own kind and provides excellent opportunities to the students to pursue undergraduate & post graduate programme in B.Sc (H) Chemistry & M.Sc Chemistry. The department has qualified team of teaching staff to support academic for high achievers. The Department consists of Chemistry labs for UG & PG programme. The students are given more and more practical work to strengthen learning. The department also offers teaching courses in Engineering Chemistry. The students are enriched in their academics & extra- curricular through well organized activities to boost the moral & to quench the thrust of the student's inquisitiveness through scientific paper reading, seminar, quiz competitions & group discussions for better understanding of the subjects. The department has developed congenial academic environment to support the students for competitive examination like IIT-JAM & NET.

The students are also given open field for industrial training in various chemical industries where students can get their proper field in endeavour.

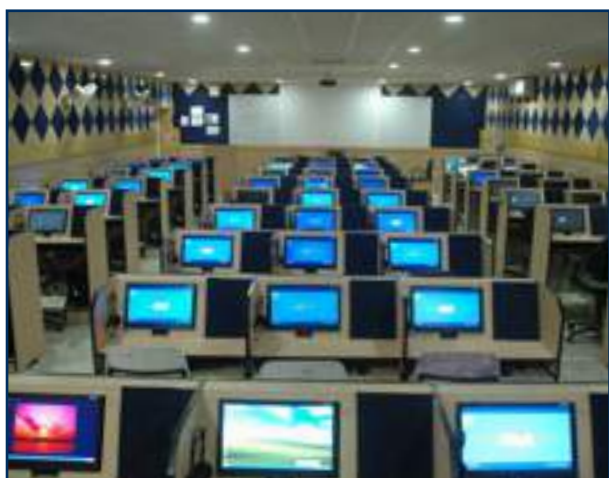
Department of Humanities

Howsoever adroit a person is and if communication skills in terms of spoken, written and listening skills are lacking it can be an impediment for future success in life. In today's era of digital economy different and unique opportunities are emerging and such skills are gaining more and more importance.

Keeping this in view, FoE has enabled Department of Humanities with a state of art computer based Language labs to ensure that needed non-cognitive skills are mastered by our students.



Department of Computer Science



The Computer science & Engineering department provides computational knowledge and programming to all branches of Engineering & Applied sciences . The fundamentals are taught using languages & techniques like C, C++, Data structures.

The CSE department believes that Computer software is a tool in hand of each engineer to solve problems in core branches of engineering and are enabler in digitised world.

Appropriate electives like Artificial Intelligence, IoT, Android Programming, Data centre infrastructure & planning and Cloud computation are offered in line with the latest trends.

Facilities

The College Campus

The college building is a masterpiece of architecture and has state-of-the-art facilities that are in tune with the best in the world. The college building basks in fine aesthetics and is impressive. The college has a comprehensive set of 9 departments that make a complete learning.

... Learning with Spirit



Lecture Halls

The college has four well laid-out lecture halls with seating capacity of 280 each. The desks are well spaced out and halls are airy, well-lit and have fine acoustics. Each hall also has the latest audio visual teaching aids. All other aspects pertaining to learn engineering have been taken into account in planning and making of these lecture halls.

... Empowering with Knowledge



Auditorium

The Auditorium is centrally air-conditioned and is fully equipped with audio-visual facilities. It is extensively used for seminars, symposia, lectures of eminent speakers, etc.

... Inculcating Versatility



Facilities

Hostels & Guest House

The University has well-furnished, self-contained separate hostels for boys and girls on the campus. The hostel rooms are airy. Round the clock security is provided. The mess facility is also provided to students residing in hostels which provides hygienic Indian cuisine. The hostels have reading rooms, recreational areas with T.V. and indoor game facilities such as carom, table tennis, etc. The hostels have a well equipped gymnasium under the supervision of a physical trainer. There is also a well maintained guest house for the visitors.

... Home Away from Home



Canteens & Restaurants

Crunchy Kitchen, Log-in Pizza restaurants and well maintained canteens in the campus provide students, staff and visitors a variety of Indian, Continental and Asian cuisine. A shopping center in the campus helps students and university personnel procure essential commodities.

... Good Food, Good Feeling



Sports

Sports and fitness is an integral part of the University which provides a network of facilities, including opportunities for sports participation at all levels, and provides a chance to its students to take part in a wide range of sports pursuits. State-of-the-art sports facilities are available in the University to ensure all round development of the students. The cricket pitch of the University complies with the international standards and has hosted prestigious tournaments like Ranaji Trophy and Cooch Vihar Tournament.

... The Way Of Life



Facilities

Library

The college has an excellent library facility with a provision for a separate reading room for the teaching staff and spacious reading halls. The total collection of the library is around 34950 volumes. The Library subscribes to most of the National and International Journals required for the undergraduate and post-graduate students and faculty. The Reading Room of the library is kept open from 8 a.m. till late evening for the students to use it according to their convenience, need and habit.

The library has been provided with Wi-Fi facility for students as well as for the faculty. As the College and hostels are 'Wi-Fi' enabled, the students can access information from any point any where.

... A Resource & Information Centre



Banking & Transport Facility

Punjab National Bank provides banking services including lockers, ATMs & E-Lobby on campus.

The University, maintains buses and cars to facilitate travel by students and faculty in a radius of up to 100 km. The University also maintains ambulances for medical emergencies. In addition, assorted utility vehicles are at the disposal of departments across campus.

... Fuelling Your Logistics Chain



Seminars, Workshops & Events

Life @ FoE, TMU paves the way beyond classroom teachings and assignments. The FoE offers opportunities to students to participate in creative activities through different clubs and committees. These clubs and committees intend to serve as the medium of all student activities in the campus. It aims to cultivate a balanced development of its members through extra-curricular activities along with their academic achievements.

National education day

National Education Day was celebrated with great zeal at Faculty of Engineering, TMU. Group Discussion or 'Education unlocks the door of opportunities' was conducted to celebrate the day. All group members advocate the importance of education since it is the only key that helps in unlocking the door of success. Be it personal life or professional, a person can achieve the desired success by dint of education only.



Candle March

To pay tribute to the dead soldiers, college organized a candle march. Students along with faculty members and Head of the department paid homage to soldiers who without taking care of their lives and family members devote their lives for Mother India. Students expressed their opinions that because of the army the countrymen can enjoy their lives without any ray of outer danger.



Cleaning Competition

The students of FoE became active members of garbage collection competition organized by the university on 19th October 2016. Students, realizing the fact that they should also contribute in making the college as well as the campus clean, showed their enthusiasm and collected the garbage from all the corners of the college & the University. Each class, labs and corridor was searched to make it garbage clean. After collecting the garbage from each & every corner of the college, students cleaned the floors. The college was acknowledged as the winner and received cash price of Rs 5100 at the University level.



Engineers' Day

Following the tradition of celebrating Engineers day, this year also Engineer day was celebrated with great fervor. Several activities were organized in which students showcased their talents in the field project exhibition, face painting, poster presentation, dance & singing. Students presented working modals and elaborated on them in front of dignitaries & guests. The program also witnessed student's managerial skills as it was sponsored by CADD Centre and co sponsored by Renault, Wolkswagon, Maruti & Pizza Unique.



National Science Day

A workshop on "Solar Cells: Basics to Advance Research", for National Science Day was organized at Faculty of Engineering on February 28, 2017 by Prof. Vikram Kumar, Emeritus Professor, Physics, IIT Delhi. He is also a winner of Shanti Swaroop Bhatnager award in Physics. Students participated in various programs of Science quiz, Science exhibition and speech in the theme of the year, 2017, "Science & Technology especially for Abled Persons". Prof. Vikram focused the technology for growth of single crystals of CdZnTe and GaAs as a substitute source for the development of solar cells. He told us that scientists are determining the optimum number of atomic layers of the structure so that their thickness and other parameters of solar panels may be improved in terms of efficiency. He also discussed about the different aspects of Solar cells and future resource planning by Government of India, Delhi.



Seminars, Workshops & Events

Foundation Day

Being a proud member of TMU Family, Faculty of Engineering got the honour to organize 'Debate & JAM Competition' to rejoice 'University Foundation Day'. Strenuous students from the university were invited to be the part of celebration by grabbing the opportunity of being acknowledged as University Speaker 2016-17 & University Orator. The competition was held between two groups: Junior and seniors. The topic of the debate was 'Lamp in our house but giving lights to neighbours' on which numerous thoughts were expressed. In JAM, Students were given the topic on the students on which they had to speak for one minute.



Mass Pledge

To raise the sense of responsibility towards Mother India, Mass pledge to have cleanliness in society was taken on 10th September 2016 by students of Faculty of Engineering, TMU. students took the pledge that neither they nor their acquainted will do anything that hampers the mission of Clean India. They not only at their homes but also at public place will give introduction of their sense of cleanliness.



Seminar on Industrial Automation

Department of Electronics & Communication, Faculty of Engineering, Teerthanker Mahaveer University, Moradabad organized a seminar on "Industrial Automation" in collaboration with "Prolific Systems & Technologies", Noida (U.P.) on 11 Nov, 2016. Prof. Ajay Ruhela, Director FoE, explained about various technologies in industrial automation. Mr. Manu Vishnoi, Manager Technical, gave a detail step- by- step progress of the development of automation technology in industries and the rapid reduction of human efforts. At the same time he explained about increasing features since the days of earlier emerging technology.



Jaipuria Quiz League 2016

Jaipuria Institute of Management organized Jaipuria Quiz League on 1st October 2016 in which 17 teams consisting 2 in each took participation. 30 minutes were given to participants in which they were supposed to give answer of 50 questions based on reasoning, general knowledge and aptitude. Manisha Ray and Arpita Ray of B.Tech Civil III Year received 1st prize Rs 5000. Pooja Yadav and Shweta Srivastava got IIInd position. Shiva and Yogita were on III prize. All three teams got opportunity of participating in regional round.



Workshop: RamGanga and Introduction to Water Footprint Campaign

Workshop on Issues on Ramganga and introduction to water footprint campaign' was conducted on 15th September 2016 by (WWF) Worldwide Fund for Nature India. Ms. Neha Bhatnagar from Worldwide Fund for Nature India elaborated on the issues that are making full contribution in making the river populated. She discussed how people just because their ignorance, making this river dirty by leaps and bounds. She emphasized on the need of awareness among the people. She explained water a remedy in very didactic way.



Seminars, Workshops & Events

Entrepreneurship Awareness Camp

To ignite the spark of entrepreneurship in students, Faculty of Engineering organized three days entrepreneurship camp from 7th September to 9th of September 2016. Participants were selected through psychometric test. Mr. Mahendra Kumar Gupta, Manager CARE, elaborated on what entrepreneurship is and how can one become master in it. After this prize distribution ceremony was held in which Akarshan Group was acknowledged as winner of the camp. Faisal Hasan Khan Group, Anushi Verma Group, Sant Kumar Katariya group were acknowledged as first, second and third runner up respectively. Shivani Chauhan Group, Saurabh Group, Shagun Gupta Group received consolation prize.



SPIC MACAY

A Pandavani folk performance under The Aegis of Spic Macey took place on 30th August, 2016 in the auditorium of the University. The act was presented by Smt. Shanti Bai Chelak & group. Smt. Shanti Bai Chelak has been trying from decades to keep this form of mythological art alive by performing at various stages and developing awareness among youth.



Independence 70

Where the college pays attention towards cultural activities, the college also celebrates national festivals. To celebrate 70 years of independence, the college organized 12 activities at a stretch in which students along with faculty members took active participations. Through debate, group discussions, speech the whole college exhibited the sense of patriotism and paid tribute towards Mother India.



Smart India Hackathon-2017

Faculty of Engineering, participated in Smart India Hackathon-2017 (i.e. world's biggest hackathon event) to solve a problem statement from Ministry of External Affairs. Solution proposed by our team DigiSecure was very appreciated by all judges & dignitaries like Prof. Anil Sahasrabudhe, Chairman AICTE. Dr. Naveen Kumar Chaudhary, Director (EG & IT), Ministry of External Affairs. At valedictory session Sh. R Chandreshkhar, President NASSCOM gave Certificates & Medal to our Students



Earth Day

Earth Day celebrations on April 22, 2017 started with a very interesting lecture by Dr. Pradeep Kumar Shrivastava former Dy. Director, CDRI on "Nanotechnology and DNA Technology: Future roles in Medical sciences". This was 1131st public lecture by Dr. Shrivastava, he has a great contribution in spreading scientific temperament amongst youth all over the world by making complex topics simple to understand with help of sciencetoons.



Industrial - Academia Exchange

Industrial Visits / Meets

The university has a special focus on hands-on training and thus it keeps its syllabi abreast with the changing needs of the Industry. In keeping with this intent the University has been holding Industry-Academia interface at regular intervals and has also been inviting the representation of the industry experts in its academic body. The representation has also helped the university to strengthen the course curriculum and hence increase the employability of the graduates. Several industry- academia meets have been conducted in prominent industrial towns in the close vicinity of the University like Rudrapur, Gajraula, Haridwar, Selaqui, Noida and Poanta Sahib.

Sl. No.	Location	State	Participation of Industry Association
1	Rudrapur	Uttarakhand	Industries Association of Uttarakhand
2	Gajraula	Uttar Pradesh	Gajraula Industries Welfare Association
3	Haridwar	Uttarakhand	SIDCUL Manufacturers Association
4	Dehradun	Uttarakhand	SELAQUI Kumaon-Garhwal Chamber of Commerce
5	Noida	Uttar Pradesh	Noida Management Association
6	Ponta Sahib	Himachal Pradesh	Himachal Chamber of Commerce & Industries

Industry visits by Students

When students and faculty are together outside the classroom, new educational environments and experience are possible. Students may have the opportunity to observe many things that are not available at college.

Engineering & Science students of Faculty of Engineering, TMU go for an industrial visit after second and third year of their academic semesters. The students benefit a lot from the industry visit. It gives a unique experience of witnessing the concepts taught in the class being put into actual practice. Also students get to know the work ethics and safety standards followed in that particular industry.

Sl. No.	Company Name	Branch
1	Videocon	B.Tech. (EC & EE)
2	National Physics Laboratory	M.Sc. (Physics)
3	Jubilant Life Sciences Ltd.	M.Sc. (Chemistry)
4	ASP Sealing Products Ltd.	B.Tech (ME)
5	ABB Limited	B.Tech (EC & EE)
6	ABB Limited	B.Tech (ME)
7	ABB Limited	B.Tech (ME)
8	Jubilant Life Sciences Ltd.	B.Tech. (EE) & B.Sc. (Chemistry)
9	C & S Himoina Pvt. Ltd.	B.Tech (ME)
10	ARIES	B.Sc. & M.Sc. (Physics)
11	Designco	B.Tech (ME)

Placement at FoE

The mission of Training & Placement Cell of Faculty of Engineering is to provide students a platform for exercising their potential to gain precious experience by working in industry. It also works as an interface between various organizations seeking talented young graduate and post graduate engineers of different disciplines. We provide training to our students like Aptitude preparation, Personality Development and Spoken English to make them more employable in private as well as in government sector. The Training & Placement Cell of Faculty of Engineering is well equipped with plenty of infrastructures like Multimedia equipped seminar hall, Lecture theatres, Communication Labs, Group Discussion room, Conference room etc for Pre Placement Talk & Presentations and Computer labs for online tests. Apart from these, Training & Placement Cell of Faculty of Engineering also has video conference facility available for the students.

In addition the Training & Placement Cell of Faculty of Engineering also arranges expert lectures of Industry Managers in both Technical and Human Resource domain for the students and faculty as well. There are various workshops and seminars organized during different semesters for the benefit of students regarding the latest trend and technology in the industry.

Apart from these the Lateral Placement at Faculty of Engineering also addresses the need of organization for engineering students with prior work experience. Lateral Placement is similar to fresher B. Tech recruitment but is conducted throughout the year keeping in mind the inherent requirements of such a process. Alumni with more than 2 years of work experience only are eligible for the Lateral Placement process.

Tools, techniques and technology used by industries in last decade have changed at a rate faster than what most of the Engineering colleges were able to keep pace with. This resulted in disconnect with respect to the real need of industries and the training which most of the engineering colleges are providing today. FoE has effectively addressed this issue by supplementing "Value enhancement & Skill updating modules" embedded into the curriculum to ensure needed skills. This exercise was done with the support of Industrial experts from corporate like Tata's, Professors from IIT & NIT with consulting experience, reputed training organisations, PHD Chambers, ASSOCHAM and successful Entrepreneurs by getting a 360 Degree feedback, resulting in introduction of modules such as PLC, SCADA, AUTOCAD 2D, AUTOCAD 3D, STAAD.Pro, AUTO DESK QUANTITY Takeoff, SolidWorks, ANSYS, Embedded systems programming as our focus area to increase employability.

Some of the students placed from February to April, taking advantage of such training & learning from FoE are photographed with Director FoE and T&P Faculty in-charges.



Placement Record

The placement record of Faculty of Engineering is consistently on increase since the 1st batch passed out. The Training & Placement Cell endeavors to train the students and make them suitable in the core companies as well as in non-core engineering companies.

Most of the eligible students of final year are already placed and companies are lined up for the rest.

We are committed to enhance the employability of the students to be placed in various core companies, PSUs and other competitive examinations so as to achieve record placement.

Stars of FoE



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Tech Mahindra



Akhil Choutala
B.TECH EC
Tech Mahindra



Vivek
B.TECH EC
Tech Mahindra



MD Sikander
B.TECH EC
Tech Mahindra



Ankit Gupta
B.TECH ME
Tech Mahindra



Shubham Kr Saini
B.TECH ME
Tech Mahindra



Himanshu Yadav
B.TECH ME
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Lakshay Jain
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Kameshwar
B.TECH EEE
Optimus Infratech Pvt. Ltd.

Prominent Recruiters



ICT & Innovative Practices

- Collaborative Platform used for fast & effective communication amongst faculty & students
 - Internal examination question papers with solution
 - Assignments
 - Handouts
- Enterprise Resource Planning for Data Integrity
 - Academic Module (Course Plan, Attendance, Time Table, Mentoring, Class Arrangement)
 - Dashboard for Director for effective monitoring & coordination
- Lecture theatres for all Department to Conduct Workshop ,Seminar ,Webinar , Massive Open Online Course, National Programme on Technology Enhanced Learning.
- Exclusive high speed Internet Lab
- Wi Fi enabled Campus
- Introducing learning management system (LMS) with fully computerised contents for first semester course & Engineering developed by knowledge lab incubated by IIT Khadakpur.
- Classes for Competitive Exam.
- English has been a challenge in a local environment. Computer based training-learning on written and spoken English has proved effective hence 120 systems installed with "TELL ME MORE", Software.

Affiliation & Ranking



Collaborative Programs

Universities' MoU with world leader Google helps us in drawing synergy in terms of understanding the latest technology and use it to fine tuning academic curriculum from time to time to address new and developing need of the society.



iNurture Pro: Today IT and digitalization are the tool in hands of all engineers of core branches like Civil, Mechanical, Electrical and Electronics & Communication. In order to attain these modern day skill students of all branches are trained on Cloud computing, and Android APP development. Additionally, students of Mechanical and Electrical will have an option of training in Data Centre Infrastructure design. The students have an option for taking certification from iNurture Pro.



Well established latest state of art CNC lab is established at FoE premises which are used for outreach programmes. The students of Engineering can take these courses as optional certification course for enhance employability and learning CNC machine programming which is highly needed in today's automated industrial world.



Prolific Systems & Technologies Pvt. Ltd: PLC (Programmable Logic Controller) and SCADA (Supervisory Control and data acquisition) an area in which the skill sets are highly in demand today in area of designing, commissioning and maintenance of plant and process automation. We at FoE tie up with Prolific Systems & Technologies for training in ABB, SIEMENS, Delta and other PLC's to ensure the students acquire the needed skills needed by the industry. The students also have an option of getting certified by them.



Along with Telecommunication sector skill council We are in a process of developing specialised modules for Electronics and Electrical branches with practical training and options of summer training in field of RF mapping , Mobile network management and other key areas.



Construction Industry development council in collaboration with TMU runs B.Voc as an outreach programme to carer to civil engineering filed , students can take advantage of training during summers.



CADD Centre: For training in Auto CAD, Auto CAD – 2D & 3D, STAAD.Pro, SOLIDWORKS, Quantity Takeoff, MATLAB and other tools for all core branches of engineering at FoE. The classes & training are conducted by external faculty to ensure that right learning takes place. The students have option for, taking certification from CADD Centre.



Fee Structure

College Name & Program	Program Duration	Tuition Fee per semester (Rs.)	University Examination Fee (Rs.)	Eligibility	Criteria of Merit	Contact Nos
B.Tech. ♦ Mechanical ♦ Civil ♦ Electronics & Communication ♦ Electrical	4 yrs.	49,950/-	4,000/- (per sem.)	10+2 with Physics, Maths & Chemistry (or Computer Science) with minimum 50% marks and pass marks in English	JEE(Main)/UP-SEE Score/ Merit based on percentage of marks secured in the qualifying examination	9568316000 9568317000
B.Tech. (2nd Year Lateral Entry)	3 yrs.	49,950/-	4,000/- (per sem.)	3 yrs. Diploma in Engineering or B.Sc. with Mathematics	Merit based on percentage of marks secured in the qualifying examination	
B.Sc. (Hons.) - Mathematics	3 yrs.	19,800/-	3,500/- (per sem.)	10+2 in science stream with Physics, Chemistry & Maths		
B.Sc. (Hons.) - Physics	3 yrs.	19,800/-	3,500/- (per sem.)	10+2 in science stream with Physics, Chemistry & Maths		
B.Sc. (Hons.) - Chemistry	3 yrs.	19,800/-	3,500/- (per sem.)	10+2 in science stream with Physics, Chemistry & Maths / Biology		
M.Sc. - Mathematics	2 yrs.	19,800/-	4,000/- (per sem.)	B.Sc. with Maths as a elective subject		
M.Sc. - Physics	2 yrs.	19,800/-	4,000/- (per sem.)	B.Sc. with Physics as a elective subject		
M.Sc. - Chemistry	2 yrs.	19,800/-	4,000/- (per sem.)	B.Sc. with Chemistry as a elective subject		

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University Admission Cell

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About Moradabad

Moradabad was founded in 1625 and named after Murad, a son of the Mughal Emperor Shahjahan. The ruins of a fort built in 1625 lie in the northern part of the city.

It is believed that Brassware industry traces its roots to Moradabad and has now spread to the rest of the country. Although the art of Brassware developed in the period of the Mughals, evidence suggests that Indians, from around 3000 B.C., knew the process of metallurgy. The discovery of a bronze statue of 'Dancing Girl' in Harappa excavation proves this assertion.

The Brassware industry in Moradabad saw its boom during the early 19th century and the British carried the art of making Brassware to foreign markets. Artisans from Banaras, Lucknow, Agra and Jalesar formed the current cluster of Brassware industry in Moradabad. In 1980, various other metal wares like brass, EPNS, iron, aluminum, etc., were introduced. New technologies like electroplating, lacquering, powder coating also found application in the industry.

In Moradabad, there are several hundred units engaged in the manufacture and export of brass products. Majorly all retail conglomerates like Walmart, IKEA, Target, etc. purchase brass products from Moradabad. Average annual export of Brassware and handicraft items from Moradabad to rest of the world is to the tune of Rs. 3,000 crore, which constitutes 40% of total exports from India under this category. Moradabad city is a designated Special Economic Zone (SEZ) of the Government of India.

Over the years, Moradabad has grown in terms of population, business, infrastructure and administrative setup. Presently, the city has a population of 1.2 million and is the administrative headquarter of Moradabad, Amroha, Rampur and Bijnor districts. The civil amenities of the city are managed by Municipal Corporation, headed by the Mayor. To further augment the development of the city, the government has created Moradabad Development Authority.

The city is connected to seven state capitals and as many as 16 other industrial towns and large urban business centers. Delhi is only 152 km away. Famous hill stations of Nainital and Mussoorie are within 200 km from Moradabad city. Hastinapur, the holy city of Jains is 120 km. away from Moradabad.

The city is surrounded by industrial hubs like Rudrapur, Haridwar, Roorkee, Meerut, Kashipur, Noida and Delhi, providing ample opportunities for graduating students to get trained and absorbed both in Indian and multinational companies.

Road Map of the University



Distance between Moradabad Important Neighbouring Cities

City	Distance (Km)
Agra	242
Aligarh	143
Bareilly	108
Dehradun	216
Delhi	152
Haridwar	163
Kanpur	350
Lucknow	354
Meerut	104
Nainital	135
Roorkee	174



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