MIT-WPU
॥ विश्वशान्तिर्ध्रुवं ध्रुवा ॥

FACULTY OF
ENGINEERING &
& TECHNOLOGY

WELCOME TO UNIVERSE OF POSSIBILITIES

TRANSFORM YOUR WORLD

Excellence in Engineering Education & Research

15th Rank in India (TOI 2019)

#LearnWhatMatters

MTech

AICTE APPROVED PROGRAMMES

- 3rd Best Private University To Study In India (INDIA TODAY 2018)
- 4 DECADES of EXCELLENCE
- 5th Best Private Institute In Research (TOI 2019)
- 15th Best for Placement In India (TOI 2019)
- 1,000+ Faculty
- 16,000+ Students
- Average Salary ₹ 6.5 LACS PA
- 1,00,000+ Alumni

mitwpu.edu.in

MTech

Electronics and Communication

Duration 2 Yrs

Intake: 18

Classes will be conducted on week end

About MIT-WPU School of Engineering and Technology

MIT-WPU Faculty of Engineering & Technology carries forward the legacy of four decades of excellence in engineering education inherited from MIT Pune to create 'future ready' engineers who excel in the technological spectrum. With an emphasis on practical application of theoretical knowledge, MIT-WPU has one of the best placement records in India. Concurrent with our aim to achieve all round excellence, MIT-WPU is the first university to offer 'Peace Curriculum' for the spiritual and moral enhancement of the students. MIT-WPU firmly believes in technological advancement through peace studies. MIT-WPU has state of the art infrastructure along with numerous Ph.D. programs so as to make MIT-WPU a foremost center for research and the development of new technologies to solve larger world issues like the environment, food shortages and energy deficiency.

About MIT-WPU School of Electronics and Communication Engineering

The School of Electronics and Communication Engineering (ECE) of MIT World Peace University was one of the pioneering department of MIT, Pune and has earned numerous laurels in last four decades. With excellent technical infrastructure, faculty, and academic ambiance in the School, the students of ECE excel in their studies as well as in co-curricular and extra-curricular activities. One of our important objectives is to nurture the students to make them Industry ready by exposing them to the state-of-the-art technologies backed by a strong foundation in Science and Engineering. Towards this goal, we have developed a strong interface with Industry and research organizations such as Texas Instruments, Nvidia, IBM, KPIT, ATMEL, INTEL, Tata Elxsi, Agiliad, Jampot Photonics, Relyon Solar, ICTP, DRDO, CDAC, and many others to work on emerging fields.

About M.Tech. Program in Electronics and Telecommunication Engineering

The School of Electronics and Communication Engineering offers very focused and specialized masters programs (M. Tech.). One of the important objectives of this program is to create Industry ready professionals to work and research in the emerging areas of electronics, information and communication technologies. This Two Year Full-time Masters programs comprises of core courses, electives, seminars, peace related courses and a dissertation along with the internship. The students are offered wide variety of electives so that they become industry ready and get specialized in the areas of their choice. The students can either take up full-time research project or Industry project or combination of these for two trimesters.

MTech Communication Networks and Software (Intake: 18)

MTech in Communications Networks and Software is industry relevant and exciting program in the field of latest advanced communication networks. It covers the key aspects of the changing internet environment, in particular the convergence of computing and communications underpinned by software-based solutions. The course has a significant practical content involving Communication Network design and software development. The course is redesigned as per need and requirements of the Industry. The

students will be exposed to latest networking and technological trends and undertaking projects in the emerging areas such as internet technologies, mobile computing, cloud computing, wireless networking, network management and control, internet-of-things (IoT), software defined networks where highest number of placement opportunities exist today.

Career Opportunities: Network architect, Network security specialist, Telecommunications analyst, Principal Telecom Engineer, Wireless Network Engineer, Broadband Wireless System Manager, Communication Product Development Engineer, Hardware Design Engineer, Telecom Software Developer, Higher Education and Research.

MTech VLSI & Embedded Systems (Intake: 18):

Eligibility:
The who have completed their bachelors degree in Computer Science and Engg., Computer Engg., Computer Technology, Computer Science and Technology, Electronics and Communication Engg., Electronics and Telecommunication Engg, Electronics Engg., Electronic and Communication Technology, Instrumentation and Control Engg., Instrumentation Engg., Industrial Electronics or equivalent, Electrical Engg., Bio-Medical Engg. are eligible.

It imparts knowledge and skills in VLSI design methodologies. It covers Hardware Descriptive Languages, Algorithms, System Architectures, Design and verification of ICs, simulation & synthesis. It gives students the capability to understand the requirements of EDA development, analog and mixed signal design, semiconductor chip design, FPGA development and SOC design. Analysis, design and implementation of integrated circuits using standard tools help the students to be industry ready. It also offers strong knowledge in the Advanced Embedded system design from application perspective.

Career Opportunities: Chip Design Engineer, Principal Architect, Semiconductor, Embedded System Design Engineer, Automotive Electronics, Electric/Hybrid Vehicles, Implementation Manager, Product Development Engineer, Hardware Design Engineer, Software Development Engineer, Higher Education and Research

Grants Received in Last Five Years: More than INR 90 Lakhs

Faculty Research Publications: In last 05 years, faculties have published 300+ papers in International Journals, 400+ papers in Conferences and obtained 13 Indian Patents and 2 Indian Copyrights.

Research Areas: VLSI & Embedded systems, Software defined Networks, Wireless Networks, Image and Video Processing, Artificial Intelligence & Machine Learning, Industrial IoT, Network Security

Research Facilities: Advanced VLSI Lab with tools like Cadence, Mentorgraphics, Advanced Embedded system and DSP Lab, Communication Networks software tools eg. Qualnet, Netsim, NS2/NS3, SDN Tools, Wireless Sensor Boards etc.

Current Research Project Areas/Topics: AI & Machine Learning, LoRA , Automotive Electronics, Agro electronics, Healthcare, Software Defined Networks, VLSI, Industrial IoT, Medical Image Analysis, Network Security, LiDAR Technology

Internship Opportunities: Students have opportunities to do internship at various renowned companies like Phillips, Cummins India Ltd., Seagate, ARAI, Tata Elxsi,KPIT, Devise Electronics, MAN Trucks, e-Zest, WNS, Elliot Systems, Varroc Excellence and many more.

Placement Opportunities: Students find excellent placement opportunities in well established companies like Persistent, Cognizant, Wipro, L & T Infotech, John Deere, NVidia, Siemens, Tech Mahindra, ZS Associates, Accenture and other.

Extra-curricular Activities: Bharatiya Chhatra Sansad (BCS), Sports Summit, Tesla and Texyphyr, Robocon, Smart India Hackathon, Aarohan, Technovision, etc.

COMPUTER SCIENCE AND ENGINEERING

Duration 2 Years

Classes will be conducted on week end

MIT-WPU School of Computer Engineering and Technology

In the Digital and IT era, the importance of Computer Engineering is increasing in all areas of our livings. Considering the various aspects of future generations, School of Computer Engineering and Technology offers unique programs at undergraduate and postgraduate levels. It is reflected in our faculties who keep themselves abreast of the latest technological developments and its implications in curriculum for needs of future IT industry.

M. Tech Program

The M. Tech program in Computer Science and Engineering is offered to students who are interested in advanced learning in Computer Engineering and Technology. The M. Tech program aims at equipping the graduates, with advanced conceptual knowledge, technical skills and ability to pursue research in the field of Computer Science and Engineering, appropriate to the present ICT scenario. Apart from the core courses, the student may choose electives depending on their interests. The structure and syllabus contents are categorized as Core, Electives, Humanities, and World Peace Program, Self-Study and Online Learning.

M. Tech in Data Science and Analytics (Intake: 24)

M. Tech in Data Science and Analytics is state of art program in the booming field of Data Science. This program will train students to become proficient data analytics and scientists. They will be benefited in areas such as data mining, data warehousing, machine learning, deep learning, big data analytics, and industrial and societal application scenarios. The program has a significant practical content involving implementation of algorithms on real world data in various domains. Students find excellent internship and placement opportunities in various areas of data science.

Career Opportunities: Data Architect, Application/Infrastructure Architect, Data Scientist/Analyst, Data Engineer, Business Analyst, Business Intelligence Manager, Machine Learning Engineer, Higher Education and Research

M. Tech Network Management and Cyber Security (Intake: 18)

M. Tech in Network Management and Cyber Security is industry relevant and exciting program that deals with study of network management, advanced cryptography, network programming, digital forensic analysis, wireless security. The objective of the program is to provide expertise in maintaining the security of wireless networks. This program is useful to learn how to actively monitor and defend the network and, furthermore, make fundamental security approach and methods. This program helps students to apply cyber security principles to protect the data and manage the personal conduct in relation to protecting the data and information. Students find excellent internship and placement opportunities in various domains of network management and cyber security.

Career Opportunities: Network Security Specialist, Wireless Network Engineer, Network Architect, System Administrator, Security Administrator, Security Architect, Network Engineer, Higher Education and Research.

M. Tech. in High Performance Computing (Intake: 18)

M. Tech. in High Performance Computing is a state of the art program which provides advanced level courses in Supercomputing Architectures, Parallel Programming, Optimization Techniques and High-Performance Computing from the Application as well as Research point of view. This program is offered in collaboration with Centre for Development of Advanced Computing (CDAC), Pune. This would provide very good research as well as a hands-on opportunity to the students. This program also provides students with requisite industry exposure. HPC has become indispensable for enterprises, scientific researchers and government agencies to generate new discoveries and innovative breakthrough products and services.

Career Opportunities: Parallel Program Developer, High Performance Data Analytics Specialist, High Performance computing engineer, Software Engineer-HPC, HPC Administrator, HPC Linux Administrator, Low Latency Software Engineer, High Performance, C++ Applications Software Engineer, Higher Education and Research

Grants Received in Last Five Years: More than INR 60 Lakhs

Faculty Research Publications: In last 10 years, faculties have published 778+ papers in International Journals, 658 papers in Conferences and obtained 32 Indian Patents and 2 Indian Copyrights.

Research Areas: Machine Learning, Data analytics, Deep Learning, Big Data Analytics, Data mining, Network Security, Wireless Security Networks, Network Management, High Performance Computing, and Parallel Computing

Research Facilities: Data Science and Analytics Lab, Network and Security Lab, High Performance Computing Lab, IBM Center of Excellence, NVDIA Lab, Embedded Systems Lab, PARAM-Shavak Super Computer, NAO Humanoid Robot and Latest Software Tools

Current Research Project Areas/Topics: Machine Learning, Deep Learning, Medical Image Analysis, Health Informatics, Network Security, Wireless Sensor Networks, Affordable Agriculture

Internship Opportunities: Students have opportunities to do internship at various renowned companies like Phillips, Dell, Bit-metric, Bitwise, CDK Global, Varroc, VU Clips, Vizitech Solutions, Softcell and many more.

Placement Opportunities: Students find excellent placement opportunities in well established companies like SAS, Persistent, Cognizant, Wipro, L & T Infotech, Tech Mahindra, ZS Associates, Accenture and other.

Extra-curricular Activities: Bharatiya Chhatra Sansad (BCS), Sports Summit, Tesla and Texyphyr, Robocon, Smart India Hackathon, Aarohan, Technovision, Linuxication etc.

Eligibility: The students who have completed their bachelors degree in Computer Science and Engg., Computer Engg., Information Technology, Computer Technology, Computer Science and Technology, Information Technology, Computer Networking, Computer Science and Systems Engg., Computer and Communication Engg. or equivalent are eligible.

MECHANICAL ENGINEERING

Duration 2 Years

For **Thermal Engg. CAD/CAM/CAE** Classes will be conducted on week end

Mechanical Engineering, involves design, development, manufacturing and up-gradation of products, systems and processes in every walk of human life. M.Tech curriculum enables post-graduates to develop solutions to the problems of society within the constraints of economy and environment.

At MIT-WPU, the emphasis is given on providing appropriate skills to meet the ever-changing needs and demands of Mechanical and allied industry at both national and international level. M.Tech program empowers to design, develop, analyze, and optimized complex engineering systems and to develop cutting edge technology in futuristic fields like aerospace, cryogenics and material science. At MIT-WPU, we develop Mechanical Postgraduates with sound human values and sense of world citizenship.

M.Tech Specializations

Design Engineering (Intake: 24)

This program offers courses on Advanced Stress Analysis, Advanced Vibration Analysis, Tribology, Analysis and Synthesis of Mechanisms and many more choice based elective courses leading to expertise in design and analysis. Students gain hands on expertise in modelling and analysis software tools used in industry.

Thermal Engineering (Intake: 18)

This program mainly focuses on thermal aspect of engineering and explores the fields like Cryogenics, Automotive Engineering, Heating Ventilation and Air Conditioning, Heat and Mass Transfer, Renewable Power, etc. It also explores recent areas of computational techniques in heat transfer and fluid dynamics, along with its practical applications.

CAD/CAM/CAE (Intake: 18)

Globalized market demands products of high quality with lower cost designed by cross functional teams. This has been possible by only practising Computer Aided Design/ Computer Aided Manufacturing. The course is designed to impart philosophy of CAD/CAM/CAE as Computational Geometry, Feature Based Machining, Computer Aided Engineering, Discrete Event System Simulation, Manufacturing Modelling, Product Life Cycle Management and Optimization Techniques.

Grant Received : INR 90+ Lacs (approx.) from Various Funding Agencies till date

Research Areas: Design Engineering, Composite Materials, Tribology, Biomaterials and Biomedical Engineering, Material Testing, NVH - Fault Diagnosis, Reliability, Vehicle Dynamics, Metal Forming/Micro Forming, Optimization of Manufacturing Processes, Solar Energy, Computational Fluid Dynamics, Bio Mechanics, Cryogenic Applications, Heat Pipe Applications, HVAC Applications.

Research Areas: Design Engineering, Composite Materials, Tribology, Biomaterials and Biomedical Engineering, Material Testing, NVH - Fault Diagnosis, Reliability, Vehicle Dynamics, Metal Forming/Micro Forming, Optimization of Manufacturing Processes, Solar Energy, Computational Fluid Dynamics, Bio Mechanics, Cryogenic Applications, Heat Pipe Applications, HVAC Applications.

Research Facilities: Center of excellence in Technology and Visualization, Center of excellence in Advanced Manufacturing Engineering in association with TATA Technologies Ltd. in line with

Industry 4.0. Wear and Friction Monitor, Journal Bearing Apparatus, Four Ball Tester, Computerized Universal Testing Machine, Multi-Channel FFT Analyzer, Hydraulic Fatigue Testing Machine, Spring Back Test Rig, Diffused Light Polariscope, High End Computational Software Packages.

Current Research Project areas/topics: Active research projects in the field of Metal Micro Forming, Solar Energy and Refrigeration worth more than INR 35 lacs (approx.)

Faculty Research Excellence In last five years: Publications 200, Patents: 8, Books: more than 15 Copyrights: 2, Funded projects: More than 10 from Various agencies such as DRDO, ASHRAE, Ministry of Renewable Energy-GOI, etc.

Placement Opportunities: CUMMINS India Ltd., ARAI Pune, Tata Motors, JCB, Volkswagen, John Deere, Thermax, Forbes Marshall, Sandvik Asia, 3D PLM software solutions, Siemens, Geometric Solutions, Force Motors, Lawkim, Godrej, Whirlpool, Lear Corporation, Kirloskar Group, Bharat Forge, Mercedes Benz, PARI, Accenture, Mubea Automotive India Pvt. Ltd. Polyone Polymers.

Internship Opportunities: Design Engineering : Tata Motors, JCB, Volkwagen, John Deere, Sandvik Asia, Force Motors, Bharat Forge, Mercedes Benz, PARI, Alpha Laval, L & T, EATON, Kirloskar Pneumatic Co. Ltd., HAL Nashik, CUMMINS India Ltd. ARAI Pune, Lean Maestro Pune, NCL, Magna Steyr India Pvt. Ltd., and many more

Thermal Engineering : Thermax, Forbes Marshall, Godrej, Whirlpool, Lear Corporation, HAL Nashik, CUMMINS India Ltd. ARAI Pune, Lean Maestro Pune, NCL, Cosmic Refrigeration, Vacuum Plant Refrigeration Pvt. Ltd., Nissu Radiators, and many more.

CAD/CAM/CAE : 3D PLM software solutions, Siemens, Geometric Solutions, HAL Nashik, Kirloskar Group of Companies, TATA Technologies, ANSYS, ARAI, and many more

Extra-curricular Activities: BAJA, SUPRA, Texphyr, ASME, SAE, GoKart, Dart Racers, Tifan, Aerodesign Challenge, ASHRAE, ISHRAE, IET, IEI, etc

Eligibility: The students who have completed their bachelors degree in Automobile Engg., Production Engg., Mechanical Engg., Mechanical Engg. [Sandwich], Production Engg. [Sandwich], Sugar Engg., Metallurgy Engg. or equivalent are eligible.

CIVIL

M Tech School of Civil Engineering: (Duration: 2 Years)

As we enter the 21st century we find ourselves in an increasingly digital world. With the advent of science and technology reaching meteoric heights, the importance of Civil Engineering has only increased. Now, more than ever, Civil Engineers are required to build the various giant infrastructure projects on whose back the world is now run. From damming works to building skyscrapers to building roadways and ports; every structure that is man made requires a Civil Engineer.

We, at MIT-WPU School of Civil Engineering take great pride in our faculty, who are amongst the best in India, being chosen equally for their academic acumen as for their industry experience. Students studying under us are assured of the quality education buoyed by our state of the art laboratories and extensive field exposure to industries. Our alumni have a strong active network where they cooperate and communicate effectively amongst each other so as to keep abreast of the latest technology and opportunities.

M. Tech. Construction Engineering and Management: (Intake: 24)

Construction Engineering and Management Program is a perfect blend of the engineering knowledge and application of the modern materials, processes, systems, machineries and technologies vis-a-vis the softer side competencies connected with project life cycle, finance, human resources development, contractual implementation and use of software. Needless to mention the Indian Government annual budgetary spending on the construction sector is always next to agriculture. Also Indian Infrastructure Development is booming due to Government initiatives, support and adequate funding.

This specialized program has a curriculum design which is based on the global Project Management Body of Knowledge (PMBOK) areas and the competencies generated through the 2 year program will enable the engineers to work in the various project management consultancy organizations in managerial levels with reputed contracting firms and in Public Sector Undertakings (PSU's), Government Organizations and Private Construction Companies. Multi-National Companies (MNC's) operating in India and abroad also recruit specialized techno-managers.

Career Opportunities: Project Manager, Project Management Consultant, Planning Engineer, Senior Civil Engineer, Project Finance Manager, Quality Control Manager, Deputy and Executive Engineer in Government Organizations such as PWD, CPWD, NHAI, MSRDC, MSEB, Indian Railways, Metro Projects etc.

M. Tech. Structural Engineering: (Intake: 24)

Curriculum offers a varied range of subjects that falls in to the core analysis, Design, newer technologies like precast and Composites, which are specialized topics of Civil Engineering. The course includes seminars, projects, and internships interdisciplinary subjects for the students so as to connect with the industry through live project based learning. The curriculum is based on the theme of continuous evaluation. Theory and laboratory components are given appropriate importance. The communication skills are enhanced through seminar component. Industry exposure is given through internships / projects. The curriculum will transform the students into socially sensitive engineer, who understands society needs and is able to give solutions through his engineering knowledge. The value based education is ensured by offering peace related subjects and yoga practice.

The curriculum will develop students in acquiring critical thinking habit in analyzing complex problems in structural engineering field. The course will also help structural engineering students learn

modern engineering tools along with computer simulation methods for analyzing and designing civil engineering structures using code provisions laid by Indian and International standards.

Career Opportunities: Structural Designer, Structural Engineer, Structural Consultant, Structural Auditor, Bridge Engineer, Deputy and Executive Engineer in Government Organizations such as PWD, CPWD, NHAI, MSRDC, MSEB Indian Railways, Metro Projects etc.

M. Tech. (Tunnel Engineering) Program: (Intake: 18)

India is one of the fastest growing markets for tunnel construction due to various infrastructure projects underway throughout the country. A total of 2200 km of tunnel length has been constructed so far, and about 4,000 km is either under construction or planned for the future. However there has been dearth of qualified tunnel engineers in India. To cater this need we have started this Masters' Program in Tunnel Engineering, M. Tech. (Tunnel Engineering) .This is the only post graduate program in Tunnel Engineering in India, and good blend of teachers from academics and Tunneling industry.

MIT-WPU has collaboration with Montan University in Leoben, Austria who is leader in Tunnel Engineering education. The ongoing infrastructure involving Tunneling in ad around the state has enhanced opportunities for employment for the Tunnel engineers.

Career Opportunities: Tunnel Engineer, Tunnel Design Engineer, Tunnel Safety Engineer in Leading Infrastructure Company, Tunnel Consulting Firms and Government Organization such as NHIDCL, NHAI, RITES, MSRDC etc.

Research Areas : Construction Risk Management, Quality Management, Resource Management and its Optimization, New Construction Materials, Sustainable Construction, Concrete technology, Prestressed Concrete, Composite Materials, Earthquake Engineering, Structural Engineering, Ferrocement Materials, Fracture Mechanics, Subsea Engineering, Precast Technology, Seismic Analysis and Design, Durability of Tunnels, Design of Large Diameter Tunnels, High Altitude Tunnels, Geophysical Methods etc.

Research Facilities: Equipped Laboratories With Research Equipment, Latest Software, Journal Subscriptions, Connect With Professional Bodies.

Current Research Project Areas/ Topics: New Construction Materials, Sustainable Construction, Concrete Technology, Prestressed Concrete, Ferrocement Materials, Composite Materials, Earthquake Engineering, Tunnels Design and Construction.

Faculty Research Excellence : Civil Engineering is research center for Ph. D. studies and faculty members have published more than 400 research papers in reputed International Journals. Hold patents and international funded research projects.

Placement Opportunities : Afcons Infrastructure Limited, Larsen and Toubro Ltd., Hindustan Construction Company, Gammon India Ltd, TATA consulting Engineers, J Kumar, Shapoorji Palonji and Co., Aecom, Geodata, Smec, Strudcom Structural Consultants, Project Management Consultancy (PMC), J & W Structural Consultants, Gammon India Limited, Indian Railways, Mumbai Metro Corporation ltd., Pune Metro (Maha - Metro Corporation Ltd.), RITES Ltd., NHIDCL, Public Works Depaprtment etc.

Internship Opportunities : Students have extensive duration of internship at various renowned companies like L & T, Black & Veatch, ACC, AFCONS, Geoconsult, Dhruv Consultants, J & W Structural Consultants, Shapoorji Palonji, Precast India Limited, B. G. Shirke Company etc.

Extra-Curricular Activities : Sports Meet (Sumeet), Bharatiya Chhatra Sansad (BCS), National Level Technical Event (Nirmitee), TESLA Technical Event, Aarohan.

Eligibility: The students who have completed their bachelors degree in Civil Engineering, Construction Engineering, Structural Engineering or equivalent are eligible.

PETROLEUM ENGINEERING

Duration 2 yrs

Intake 18

Classes will be conducted on week end

Petroleum Engineering focuses on exploration, drilling, production and management of subsurface oil and gas resources. Petroleum engineers discover, design, drill, produce, and sustain the World's oil and gas reserves. At MIT-WPU, we develop Petroleum engineers with sound human values and sense of world citizenship.

Highlights

- Society of Petroleum Engineers (SPE) Student Chapter.
- ONGC Chair.
- The International Association of Drilling Contractor's (IADC) Student Chapter (first international student chapter of IADC established outside America.)
- A Unique Subsea Engineering Laboratory Project as the CSR initiative of Aker Power gas Pvt Ltd (APG) and Aker Power gas Subsea Pvt Ltd (APGS).
- Dr. Vishwanath Karad merit scholarship will be awarded to the meritorious students based on their GATE score
- MOU with leading companies like-ONGC, Aker Solutions, Emerson,Essar.
- Grant received in last 5 years: 141.08 Crores

Research Areas: Reservoir Engineering, Well Engineering, Production Engineering, Geosciences

Research Facilities: Consistometer, Well Completion Equipments, Porosimeter, Permeameter, Core Flooding Apparatus,Polarizing Microscope, Digital Camera, GCMS, Computer Lab equipped with software packages like-Ecrin, Landmark, CMG, Eclipse, Petrel, Frac Pro, Pipe Flow, Well Flow, Drill Bench, Oil Field Manager, Open De Tect .

Current Research Project Areas/Facilities: Study of Meso and Microstructures, Simulation projects, Well Trajectory Optimization, Studying Multiphase flow behavior.

Faculty Research Excellence: Publications: 52, Patent:01

Eligibility: Bachelor of Engineering in Petroleum, Petrochemical, Polymer, Chemical, Mechanical, Production and Instrumentation Engg., Marine Engg., MSc (Physics / Chemistry / Geology with GATE in Engineering Science) or equivalent.

POLYMER ENGINEERING

Duration 2 yrs
full time
(6 trimesters)

Intake 18

Classes will be conducted on week ends

Career Opportunities
(Job Profiles)

- Production
- Technical Sales
- Research and Development
- Design Engineering
- Modeling and Simulation Sectors
- Polymer Processing & Manufacturing
- Paints and Adhesives
- Automotive
- Composites & Many more...

The modern world is built on the synthesis of all the fields of engineering brought together. No created product can be called the result of an exclusive branch of engineering. Polymers are a growing industry and the demand for qualified polymer engineers is growing too. The market for polymers is in excess of USD 1 Trillion and that number is growing. With ground-breaking research occurring within the field, Polymer Engineering is entering newer areas such as electronics, biodegradable plastics, medical equipment and utility. Thus, the need for competent and able polymer engineers has never been higher. The MIT-WPU School of Polymer engineering is one the first private Polymer engineering schools in the country. We offer M.Tech programs delivered by a highly qualified faculty utilizing our state-of-the-art facilities. The course is designed to provide a fundamental understanding of Polymer Science and Engineering (PSE) along with extensive exposure to the latest advances and technologies in polymer industry through multiple industry visits. Our department prides itself on its research wing and quite a few patents have issued forth from our department. Various government organizations and universities are currently funding us on a variety of projects.

M. Tech Program

The M. Tech program in Polymer Engineering is offered to students who are interested in advanced learning in Polymer Engineering. The M.Tech program aims at equipping the graduates, with advanced conceptual knowledge, technical skills and ability to pursue research in the field of Polymer Engineering, appropriate to the electives depending on their interests. The structure and syllabus contents are categorized as Core, Electives, Humanities, and World Peace Program, Self-Study and Online Learning.

Research areas : Polymer Materials , Polymer Processing and Rheology , Polymer Synthesis , Polymer Composites ,Design and Simulation .

Research facilities : Well-equipped laboratory facilities - Polymer Processing Operations laboratory, Polymer Testing and Characterization laboratory, Polymer Synthesis laboratory, Polymer Rheology and Compounding laboratory, MIT-Compuplast Simulation laboratory is equipped with polymer process simulation software.

Current research project areas/topics : Development of "BiofreshPak" Material:Received the research grant of Rs. 1.57 Crores under UK Innovate and DBT Govt. Of India PI: Dr. S. Radhakrishnan, Director, Research Development & Innovation, MIT - Pune Co-PI's: Prof. Mrs. A. M. Khare and Prof. Dr. M. B. Kulkarni.

Faculty Research Excellence: Publications in last 10 Years in Journals & Conferences-130 & Indian Patents: 06

Placement opportunities : Varroc Group, DSM Engg, Reliance Industries Ltd., Oriental Rubbers ltd,Garware, Polyone India Pvt.Ltd , Supreme Industries ltd , Tata Motors ltd,Cosmo Films Ltd ,ATC tyres etc.

Internship opportunities : Students have opportunities to do internship at various renowned companies like: Varroc Group, DSM Engineering, Reliance , Phillips, Garware, Polyone etc

Extra-curricular activities : Bharatiya Chhatra Sansad(BCS), Summit :Sports Meet, Affinity and Confluence, Robocon, Smart India Hackathon, Aarohan, etc

Eligibility: Bachelor of Engineering in Petroleum, Petrochemical, Polymer, Chemical, Mechanical, Production and Instrumentation Engg., Marine Engg., MSc (Physics/Chemistry/Geology with GATE in Engineering Science) or equivalent.

Life @ Campus

Internships

180 + Companies participate

INTERNATIONAL and **NATIONAL** offers

₹24 LACS P.A. HIGHEST CTC

₹6.5 LACS P.A. Average CTC

Prasad Thakar
Philips India Ltd

Shobha_Kanade
Philips India Ltd

Suraj Patil
Faurecia Pvt. Ltd.

Vaiibhav Joshi
ONGC Dehradun

Shubham Mahapadi
Bharat Forge

Rushi Randeria,
L&T Ltd

Roshani Patil
Forbes Marshall

Nilesh Irale
Afcons Infrastructure Ltd

Ashish Munde,
Kirlosker Pneumatic Co. Ltd.

Ajinkya Balte
Sai Consultants Ahmednagar

Akshay C. Kodolikar,
WNS Global Services

Alokkumar
Elliot Systems Pvt. Ltd.

Harshali Rane
WNS Global Services Pvt. Ltd.

Nikhil Sulkshane
Faurecia Pvt. Ltd.

Vinay Deokate
Mumbai Metro RC Ltd

Eligibility & Selection Process

Fee Structure
Tuition Fees – Rs. 1,33,000
Other Fees – Rs. 57,000
Total Fees – Rs. 1,90,000

Fees can be paid in 3 installments.

Key Deliverables :
1. Rural Immersion
2. International Immersion*

* Subject to change

Selection Process

Candidate should have obtained non-zero positive score in Graduate Aptitude Test in Engineering (GATE 2018, 2019, 2020) conducted by Indian Institute of Technology, will be considered for the admission.

For admission under sponsored category, candidate should have minimum two years of fulltime work experience in a registered firm / company/ industry/educational and/or research institute / any Government Department or Government Autonomous Organization in the relevant field in which admission is sought.

For any vacant seats after above process, candidates who do not have either GATE score or work experience will be considered for admission through a process of written test followed by interview in respective school on the date of admission.

Scholarship

Particulars	Category I	Category II	Category III	Category IV
Stipend per month	Rs.6000 pm	Rs.5000 pm	Rs.4000 pm	NA
GATE Score	≥ GATE Qualifying Score (General Category)	≥ 15	≥ 5	Less than 5

Rs. 7.0 Crores scholarship for **MITWPU** students in Academic Year 2019-20

Stipend will be given as per GATE Score mentioned above by considering the score cut off of General Category Students of respective UG Category as well as GATE Category Engineering Branches.

Only for First Year. For subsequent years Scholarships are Based on academic performance of Previous Year.
Note: MIT-WPU reserves the right to modify scholarship policy without any notice

Tentative Admission Schedule

Activity	Date
Online Application Form will be made available from	1st March, 2020
Last Date for Submission of duly filled Application Form with fees online	10th July, 2020 (5:00pm)
Display of Provisional Merit List	22nd July, 2020
Display of Final Merit List	25th July, 2020
Admission Round 1	29th July, 2020
Display of Waiting List	29th July, 2020
Commencement of Teaching	3rd August, 2020

Apply online

MIT-WPU
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SINCE 1983
Dr. Vishwanath Karad
MIT WORLD PEACE UNIVERSITY | PUNE
TECHNOLOGY, RESEARCH, SOCIAL INNOVATION & PARTNERSHIPS

Supported by UNESCO
UNESCO Chair for Human Rights, Democracy, Peace & Tolerance
World Peace Centre (Alandi) Pune, India

MIT-WPU Campus, Paud Road, Kothrud, Pune-38.
020 7117 7137 / 42   9881492848
admissions@mitwpu.edu.in