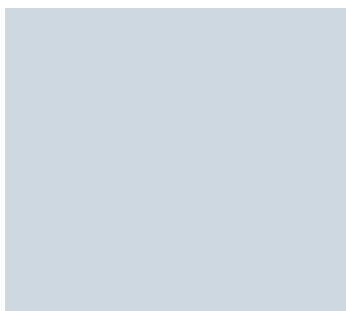
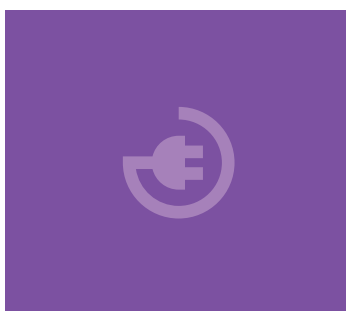
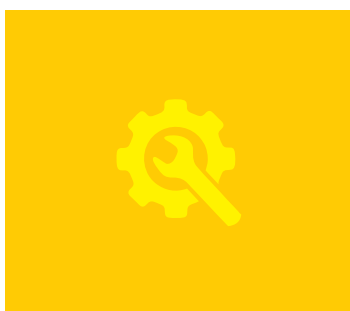


# PROSPECTUS

## 2016

Mumbai Campus | Shirpur Campus

MBA (Tech.) | B.Tech. | B.Tech (Integrated) | MCA | M.Tech | PGDM | Ph.D.





MUKESH PATEL SCHOOL OF  
TECHNOLOGY MANAGEMENT & ENGINEERING



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# BOARD OF MANAGEMENT

(As on June 2016)

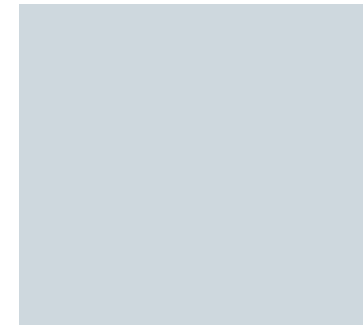
## Chairperson

**Shri. Amrish Patel**

Chancellor

## Members

- ▶ **Dr. Rajan Saxena**, Vice Chancellor
- ▶ **Dr. Debashis Sanyal**, I/c Pro-Vice Chancellor, Vice Provost (Management Education) and Dean, SBM.
- ▶ **Dr. Sharad Mhaiskar**, Dean, MPSTME
- ▶ **Shri. K. Venkataramanan**, CEO & MD, L & T Ltd.
- ▶ **Dr. M. R. Rao**, Dean, Emeritus, ISB.
- ▶ **Shri Pankaj R. Patel**, Chairman & Managing Director, Zydus Cadila
- ▶ **Shri Pravin Gandhi**, Vice President, SVKM
- ▶ **Shri T. N. V. Ayyar**, Nominee of SVKM
- ▶ **Dr. Meena Galliara**, Director - Center For Sustainability Management and Social Entrepreneurship
- ▶ **Dr. Bala Krishnamoorthy**, Associate Dean, SBM
- ▶ **Shri Ashish Apte**, Controller of Examinations (Permanent Invitee)
- ▶ **Dr. Meena Chintamaneni**, Registrar, Non Member Secretary







## CHANCELLOR'S MESSAGE

**Shri Amrish Patel**

Chancellor

Technology and leadership has best served the nation and the world at large in the 21<sup>st</sup> century. Present-day necessity for technical and managerial expertise at a grass-root as well as global level has made it imperative for educational institutes to emphasize on quality, validity and employability value of training and degrees. A blend of rationalized curriculum with pertinent pedagogical practices like learning management system; experiential learning ensures compliance to ever evolving needs of the industry and society at large.

The Mukesh Patel School of Technology Management and Engineering (MPSTME) at SVKM's NMIMS (Deemed-to-be University) has safeguarded the student's needs and interests by crafting a team of eminent academicians. SVKM is dedicated to providing its students with an education that combines rigorous academic study and the delight of discovery through intellectual simulations.

At this stage, it is important to share SVKM's vision which is built on a thoughtful commitment to teaching, learning, research, teamwork, and developing a foundation for thought leadership. NMIMS as well as MPSTME are constantly collaborating through MOU's with some of the leading institutes in the world. We also emphasize alliances and constant interaction with industry for hands-on experience and global exposure to our students.

The institute has an acknowledged record of outstanding attainments as a Technology Management and Engineering School, and has carried forward the tradition of excellence to other schools. At MPSTME, we have taken initiatives to generate consistent and unparalleled excellence in our teaching and research programs. We definitely follow out-of-the-box approach in our pedagogical techniques, research enterprises and student skill enhancement activities. The credibility of our programs is ensured through mentoring by India's leading luminaries from industry and academia; built in laboratory exercises and field training. Over the years, MPSTME has taken edge by setting up several centers of excellence.

The laurels earned by our faculty and students in Indian and international forums, the mounting call from industry for our students, imparts credibility to our claims of excellence.

I encourage you to engross yourself in the new learning experiences at MPSTME and seize this incomparable opportunity.

## FROM THE DESK OF VICE CHANCELLOR



SVKM's NMIMS (Deemed to be University) is committed to creating, spreading, and preserving knowledge, and is renowned for its innovative programs with a contemporary curriculum and pedagogy. NMIMS was first in India to start a five year MBA (Tech.) program way back in 2004. With the founding of Mukesh Patel School of Technology Management & Engineering (MPSTME), the B.Tech., M.Tech., Ph.D.(Engg.) programs were launched in 2006. A unique six year B.Tech. (Integrated) program for 10+ students has been initialized from the academic year 2014-15. The program is an outcome of intensive research and extensive industry-academia inputs.

MPSTME has evolved by continuously ensuring that its programs are in consonance with the industry needs of tomorrow, both on the technological and techno-managerial fronts thereby making its graduates not only relevant but appreciated in industry. Grounded in commitment to engineering education, innovation, and research, the school has matured into an institute renowned for its excellence. We offer our students rich educational experience enhanced by co-curricular and extra-curricular activities, industry linkages and infrastructure. Along with these initiatives, a student-centered approach and environment gives an opportunity to excel. MPSTME's Mumbai and Shirpur campuses are evidences of the commitment of NMIMS for excellence.

In the last few years, the engineering school has taken a number of initiatives to establish centers of excellence to enrich relevance of its curriculum and teaching-learning experience. Students of MPSTME have competently represented and brought laurels to the school in international competitions held by NASA and MUN. It has also received NBA accreditation for two of its programs.

The program curriculum and pedagogy offers industry internship, laboratory experiments on modern setups for honing practical skills, case studies, seminars and interdisciplinary research. Our placements across the years, along with the salary packages offered, establish the preference given to our students in industry. The program delivery is based on outcome based education with three of its programs accredited by NBA in Tier-1 category.

As a school of technology management and engineering, we take pride in uniquely educating the technological leaders of tomorrow. Our engineering graduates will be positioned as thought leaders, problem solvers, project leaders, communicators, and ethical citizens of a global community.

We look forward to welcoming each one of you at MPSTME in the new academic session 2016-17.

**Dr. Rajan Saxena**

## FROM THE DESK OF MENTOR



Mukesh Patel School of Technology Management & Engineering was set up with the following objectives:

- Develop technocrats with problem solving and leadership skills, to lead tomorrow's businesses, research and academic institutions.
- Become an institute at par with the world's leading institutes, through state-of-the-art infrastructural facilities, holistic pedagogy, renowned faculty, strong research culture and an ecosystem in sync with industry, academia and research organizations.

As we move forward, we are committed to revamping our delivery so that it becomes more learner centric, becomes more multidisciplinary and allows experiential learning. Students of MPSTME have a distinct edge since the programs and learning approach are designed in collaboration with leading experts from industry and academia. These programs are fostered by faculty who are experts in their respective domains and are constantly upgrading through thoughtful analysis and research. The industry training modules are adopted as part of curricula to facilitate internships and enhance the employability of graduating students.

The school provides good infrastructure, round-the-clock intellectual activities and ample opportunities for multifaceted development of students through extracurricular and co-curricular activities organized by students' council and students' chapters of professional bodies. The school has set up several centres of excellence. Notable amongst them are NMIMS-BOSCH REXROTH centre of excellence in Industrial Automation, The school has also set up LUCAS-NULLE Didactic laboratories for communications and networking technologies.

The school has also initiated several innovative programs in the last few years. Notable amongst them are the B.Tech. Mechatronics program and the B.Tech. for 10+ students.

This all round growth helps MPSTME students display consistent outstanding performance in international inter-university competitions. MPSTME team of students received award at the "Lunabotics" and MAIT Rover competition held by NASA consequently for three years. Students have also participated in the MUN events and consistently won awards for the last three years.

I invite you to be a part of MPSTME, join us in our journey of excellence and growth by engaging in professional education on a career transforming path.

**Dr. J. P. Gandhi** – Hon. Joint. Secretary, SVKM and mentor MPSTME

## FROM THE DESK OF DEAN



Over the years MPSTME has established its identity for

- State-of-the art infrastructure which includes learning management system, centres of excellence in terms of hardware and software
- Providing relevant curriculum based on industry inputs and needs
- Industry linkages and partnerships
- Environment conducive for all round growth of students
- Opportunities for Experiential learning as well as summer internships
- Centres of excellence set up with industry partnerships

As eight batches of MBA (Tech.) and seven batches of B.Tech., the industry acceptance to these programs is very evident in the form of placements and increasing partnerships. Many students who have graduated are pursuing higher education in India and abroad in reputed Universities, while many of them have reached a position of eminence during the short span of their career.

I invite all aspiring students to join our journey of excellence in education and share the fruits of a well tread and traversed path.

**Dr. Sharad Y. Mhaikar**  
Dean, MPSTME

## FROM THE DESK OF DIRECTOR (SHIRPUR CAMPUS)



Dear students,

Congratulations for your success in 10 + 2 examination and welcome to fascinating world of professional studies.

NMIMS is proud, producing industrious students out of premier education system along with the finest facilities ensuring that our students achieve excellence in their chosen fields. We, at NMIMS Shirpur, nurture our students in an environment that ensures rigor, encourages team work and expects excellence. The curriculum and pedagogy are tailored to develop students with best technical education and practical experience.

Narsee Monjee Institute of Management Studies (NMIMS) - a Deemed to be University, is flourishing under the aegis of Shri Vile Parle Kelavani Mandal (SVKM) Public Charitable Trust. MPTP is first off campus of NMIMS University established in 2007 popularly known as Shirpur campus which is known for its quality education and state-of-art infrastructural facilities. Board of studies (BoS) of NMIMS revisits the curriculum every year as per the need of industry, with a industry partner in BoS. Our mission is to ensure that our students are industry ready, can take on the challenges of a global market, and among the most desired by the best employers around the world or become entrepreneurs.

Our efforts are recognized by outside world and recently Mukesh Patel Technology Park (MPTP) has been awarded as "Best Educational Campus" by Dewang Mehta National Education Awards, School of Pharmacy & Technology Management is awarded as "Best Institute in Pharmacy" and Mukesh Patel School of Technology Management and Engineering, Shirpur Campus has been awarded as "Best Educational Institute in Engineering" by The Golden Globe Tigers 2016 – Education Leadership Awards.

Our strength is the happy blend of world class infrastructural facilities, highly learned and experienced faculties and enthusiastic students and of course, we confidently invite you to offer best human resources with at par knowledge and skills to be an asset to the esteemed organization of yours.

All above has been proved by our graduates. Our alumni are well placed, accomplished professionals, affectionate about their Alma Mater, and always been a part of Campus's exaltation.

Wishing you all a very successful and knowledgeable academic year 2016-2017.

**Dr. R.S. Gaud**  
Director, SVKM's NMIMS, Shirpur Campus

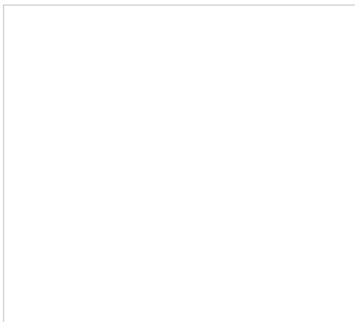
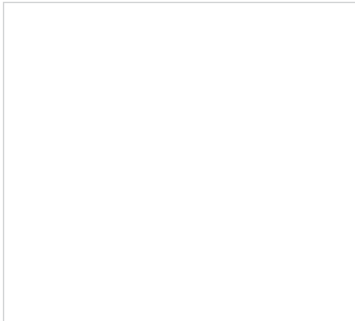
# SVKM

## Vision

Equip students with knowledge and skills in their chosen stream, inculcate values, identify hidden talents, provide opportunities for students to realize their full potential and thus shape them into future leaders, entrepreneurs and above all good human beings.

## Mission

- To equip students with advanced knowledge and the latest skills in their chosen discipline.
- To nurture a scientific spirit of inquiry among the students.
- To provide value based education which will mold them into good and responsible citizens playing a meaningful role in society.
- To tap the students' potential - both hidden and obvious - and offer a platform for their talents.



# SVKM'S NMIMS

## Vision

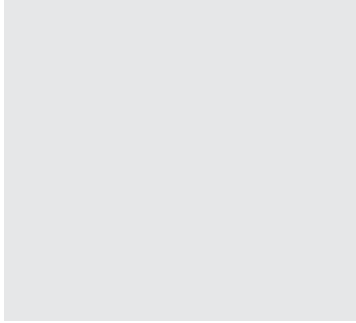
NMIMS will define the 21st Century Technological, Management and Organisational Research, and educate with a view to impact global developments and cadre of employable individuals.

## Mission

NMIMS's mission is to provide to the nation, good quality trained human resources who are socially sensitive, have inquisitive minds and the persistence to change their own and the organisation's lives, and contribute to making India a knowledge superior power and the world a better place to live.

This we seek to achieve through educational excellence, innovative and relevant research, promoting social equality and an outreach program to ensure global access of our learning resources to all students and faculty.





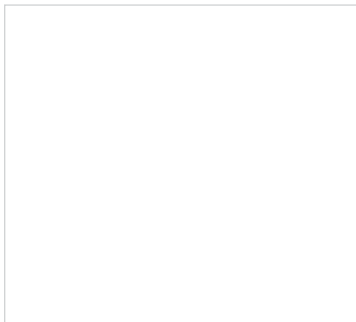
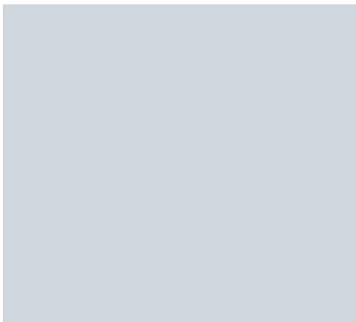
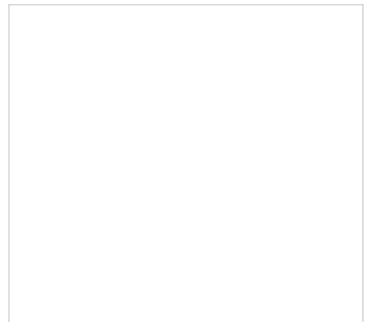
# MPSTME

## Vision

Play a distinct role in providing excellence in engineering and management education thereby creating human resources of value to industry and society both at national and international level.

## Mission

- Formulate relevant curriculum through strong industry linkages and interaction.
- Ensure quality of education through pedagogical innovations
- Undertake and promote relevant research.
- Ensure multifaceted development of students, faculty and staff through continuous introspection and inputs.
- Set up the international linkages with Institutes / industry of repute.



# SVKM - THE PARENTAGE

Shri Vile Parle Kelavani Mandal is a Public Charitable Trust registered under the Society's Registration Act and Bombay Public Trust Act. The SVKM has always been committed to the cause of providing high quality education at various levels. From its humble beginnings in 1934, when it took over the Rashtriya Shala, a school established in 1921 in the wake of the National Movement, the Mandal today has grown into a big educational complex imparting high-level education to more than 35,000 students.

The ethos of the Mandal, which is marked by patriotic fervor, selfless service and the spirit of indigenous enterprise, has its genesis in the days of India's struggle for freedom. These values permeate all the institutions set up by the Mandal and are the guiding principles for all of them.

Over the past 80 years, the Mandal has developed a large educational complex in Vile Parle. With a strong vision and passion for being the pioneers of the modern education system, all SVKM institutes are state of the art, with ever expanding facilities and infrastructure.

From its beginning with the Swadeshi Movement, the Mandal has now grown into an educational foundation promoting global thinking consistent with national interest and promoting the values, professionalism, social sensitivity and dynamic entrepreneurship.

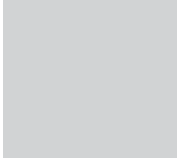
## Schools

- Smt. Gokalibai P. P. High School
- Shri Manilal Vadilal Nanavati Prathamik Shala
- Shri Dhirajlal V. Parekh Shishu Vihar
- Chhatrabhuj Narsee Memorial School
- Mukeshbhai R. Patel Military School – Shirpur
- SVKM International School

## Diploma Institutes

- Shri Bhagubhai Mafatlal Polytechnic
- SVKM's International Baccalaureate Diploma Programme (IBDP)





### Colleges

- Mithibai College of Arts
- Chauhan Institute of Science
- Chauhan Junior College of Arts & Science
- Amrutben Jivanlal College of Commerce & Economics
- Narsee Monjee College of Commerce & Economics
- Acharya A. V. Patel Junior College

### Off Campuses

- Shirpur-Dhulia District
- Bangalore
- Hyderabad
- Chandigarh

### Research Programme

- Chhotabhai B. Patel Research Centre for Chemistry & Biological Sciences

### Colleges For Professional Courses

- Dwarkadas J. Sanghvi College of Engineering
- Usha Pravin Gandhi College of Management
- Dr. Bhanuben Nanavati College of Pharmacy
- Jitendra Chauhan College of Law
- SVKM College of Law
- Narsee Monjee Institute of Management Studies (Deemed to be University)
  - School of Business Management
  - Mukesh Patel School of Technology Management & Engineering
  - Shobhaben Pratapbhai Patel School of Pharmacy & Technology Management
  - Balwant Sheth School of Architecture
  - Sunandan Divatia School of Science
  - Anil Surendra Modi School of Commerce
  - NMIMS (Global Access), School of Distance Learning
  - Sarla Anil Modi School of Economics
  - Institute of Intellectual Properties Studies (IIPS)
  - Academy of Aviation
  - School of Liberal Arts

### Specialized Courses

- Harkisan Mehta Foundation Institute of Journalism & Mass Communication
- Parag Vijay Datt Drama Academy

### International Collaboration

- Institute of International Studies (with Kingston University, London)



# SVKM's NMIMS

In order to meet the growing demand for management education, the Shri Vile Parle Kelavani Mandal, with the help of a donation from Narsee Monjee Educational Trust, established a recognized Management institute of the Mumbai University in 1981.

Since then NMIMS has grown into a flourishing University, offering courses / programs across various disciplines, such as Management, Technology, Science, Pharmacy, Architecture, Commerce and Economics. Today, the University has over 5000 students and more than 430 faculty members. The faculty at the University represent an eclectic mix of Industry and Academic experience; national and international experiences.

SVKM's NMIMS Deemed to be University (Declared as Deemed to be University under Section 3 of the UGC Act, 1956), one of the premier Universities of Higher Studies in India, has completed 33 years of its existence in the year 2013-14. NMIMS established in the year 1981 as Narsee Monjee Institute of Management Studies, began its journey by offering a masters degree program in management studies, a course of the University of Mumbai with an intake of only 40 students and 4 full time faculty.

Today, NMIMS is one of the fastest growing and the top, private University in the country. It has undergone a tremendous transformation since its commencement. Today, it stands as a large imposing University with 9 specialized schools plus two off-Campus operations, with an intake of over 6000 students and over 430 full time faculty members. From its temporary location at Bhaidas Auditorium, NMIMS has moved to a large complex of over 40000 sq feet where it stands today as a landmark in Vile Parle, an affluent suburb of Mumbai.

NMIMS Deemed to be University (Declared as Deemed to be University under Section 3 of the UGC Act, 1956) has taken major initiatives in terms of programs, curriculum development, International Linkages, Placements and students' development. Today, the University is a globalized centre of learning, providing its students a balanced exposure to research, academics and practical aspects of the industry.

At SVKM's NMIMS Deemed to be University (Declared as Deemed to be University under Section 3 of the UGC Act, 1956), we transcend horizons! Going beyond the average, putting in that extra mile, extending ourselves to excel and win on all accounts. Going by the past track record, in the 28th year of our existence, we have witnessed a quantum jump in the success stories we have achieved and the milestones we have crossed. Winning the BMA Best Management Institute of the Year Award 5 times, BMA Best Teacher of Management of the Year Award 7 times and BMA Best Management Student of the Year Award 7 times, NMIMS has been consistently ranked amongst the top B-Schools in the country. NMIMS has been awarded the 'Golden Peacock Innovation Award-2007' and BMA's 'Outstanding Management Institute Award' for the last five years (2003-2008).

NMIMS Deemed to be University (Declared as Deemed to be University under Section 3 of the UGC Act, 1956) has a team of over 430 full time faculty members and over 200 visiting faculty, rich in academic and industry experience. The faculty members have a number of publications to their credit and are also involved in Research & Consultancy activities, which are needed to keep them abreast of the ever-changing and evolving corporate world.

The students are encouraged to undertake internship with companies. The focus at NMIMS is to develop a Complete Student, i.e. a combination of academic and co-curricular skills. We groom our students to face the challenges of the corporate world with a blend of social sensitivity. Besides the requisite managerial skills, the students also attain visionary, entrepreneurial and leadership skills.





# ABOUT MPSTME

The Mukesh Patel School of Technology Management & Engineering (MPSTME) is an important addition to NMIMS's vision of 'Transcending Horizons'. The MPSTME leverages the capabilities inherent in the university, in both engineering and management domains to make this unique contribution possible.

The MPSTME came into existence in 2006-07 with the entry of the third batch of MBA (Tech.) innovative programme started in 2004. The MPSTME campus in Mumbai stands tall as a shining metaphor of India's progress in the field of education. In 2007 MPSTME Shirpur Campus started offering B.Tech and MBA Tech. Programme.

The MPSTME is equipped with a world-class library, which has an impressive collection of books and journals. It is fast transforming itself into a digital library with e-models, e-catalogues and an online database - Online Public Access Catalog on the intranet, which helps students check the library's collection of titles from across the world.

MPSTME has state-of-the-art laboratories: Those of Computer Science, Applied Sciences, Telecommunications and Information Technology, Bosch Rexroth which are equipped with technologically advanced instruments and managed by cooperative staff. There are recreation lounges and sports facilities which complete the all-round experience at MPSTME.

The modern state-of-the-art facilities are developed to provide a conducive atmosphere for teaching, learning & all round development of the students.



## MPSTME RANKING

- MPSTME ranked 5th in Maharashtra and 7th in Top Emerging Engineering Colleges of Excellence in India at percompetition success review, Aug. 2011.
- MPSTME ranked with 'AA' Rating under Deemed Universities in Maharashtra at State and National Level as per Careers 360, May 2012.
- MPSTME ranked 4th in Maharashtra and 6th in Western India under Engineering Colleges of Excellence as per GlobalHuman Resources Development Center (GHRDC) & Competition Success Review (CSR) Engineering Colleges Survey 2013.
- MPSTMEis ranked in TOP 100 Engineering Institutes and in 50 Private Engineering Institutes in India as per Times of India Engineering Institute Survey 2014.
- MPSTMEis ranked 63, in TOP 75 Pvt. Engineering colleges and ranked in TOP 128 Engineering Colleges in India as per The Week Engineering Survey 2014.
- MPSTME is ranked 10th in Top Engineering Colleges of Excellence and 5th inTop Engineering Colleges in Maharashtra State as per Competition Success Review (CSR) - Global Human Resources Development Center (GHRDC) Engineering Colleges Survey 2014.
- MPSTME is ranked 8th in Top Private Engineering Colleges, West Zone in India and ranked 51st in Top 99 Private Engineering colleges in India as per The Week Engineering Survey 2015.
- MPSTME is ranked 1st in Outstanding Engineering College of Excellence in India as per Competition Success Review (CSR) - Global Human Resources Development Center (GHRDC) Engineering Colleges Survey 2015.
- MPSTME is ranked 5th in Engineering colleges in Maharashtra state as per Competition Success Review (CSR) - Global Human Resources Development Center (GHRDC) Engineering Colleges Survey 2015.
- MPSTME ranked with 'AAA' Rating at State Level under Top Engineering Colleges in the year 2015 as per Careers 360.
- MPSTME is ranked with four star (\*\*\*\*) for "BEST ENGINEERING INSTITUTES" in Maharashtra state, (Engineering Survey conducted by Career Connect, April 2016).
- MPSTMEis ranked in TOP 100 Engineering Institutes and in TOP 50 Private Engineering Institutes in India as per Times of India Engineering Institute Survey 2016.
- MPSTME is ranked 10th in Top Private Engineering Colleges, West Zone in India and ranked 54thin Top 100 Private Engineering colleges in India as per The Week Engineering Survey, June 2016.
- MPSTME is ranked 33rd in Top 100 Engineering Colleges in India as per OUTLOOK Survey, July 2016.

# BEST PRACTICES

NMIMS has always strived to be world-class in every sphere of education. Some of the Best Practices are as follows:

- Continuous revision and updation of the course through a strong Board of Studies.
- With the aim of International adaptability, foreign language is made compulsory.
- Value added Training Module of Oracle, EMC2 CISCO and Soft Skill are offered as a part of the course subjects.
- Harvard case studies are extensively used to enhance the understanding of the students.
- Students have access to various e-library services and databases like the EBSCO, IEEE databases, Proquest, ScienceDirect for research purposes.
- Regular talks and seminars are arranged with Industry experts so that the students can constantly relate and apply their learning in class to the industry environment.
- Only student chapter of PMI in India is at MPSTME. Thereby imparting Project Management inputs to our students. Opportunity to do Certified Associate in Project Management (CAPM) course.
- FICCI collaboration - MPSTME is participating as the Nodal Institute (Western Region) FICCI for their National Knowledge Functional Hub (NKFH) initiative, for driving collaboration between industry and academia for the capital goods industry. The NKFH would be a hub and spoke model. The Hubs will be connected to industry and colleges in the region.
- NMIMS, ACCENTURE Centre for Innovation in ERP is recently set up at MPSTME and training for students is already conducted.
- MPSTME has established NMIMS-Bosch Rexroth 'Centre of Excellence in Automation Technologies' in collaboration with BOSCH, Germany, to set up well equipped laboratories with state-of-the-art facilities for Hydraulics, Electro pneumatic, PLCs, Sensorics, CNC, Mechatronics and Robotics courses. The equipments are same as that used in industry and will be used for teaching, research and training purpose. This will be one of the exclusive facilities in the western region of the country.
- MPSTME has set up "IIT Bombay Remote Centre" to conduct the IIT Bombay workshops approved by MHRD and ISTE.
- MPSTME has developed "Blackberry Communication Lab", two faculty members are already trained at Blackberry centre at Hyderabad.
- Summer courses are being offered at reputed universities e.g. **Ingolstadt-Germany, Technion - Israel, Laurentian - Canada**. Meritorious students are offered tuition waiver and stipend for these summer courses.
- Collaborative MS programs are conducted and offered with reputed universities like **Stevens Institute of Technology, US**.
- MPSTME had set up LUCAS – NULLC laboratories in the area of Communications and Network Technologies.



## Soft Skills Training

We provide for a strong foundation for the all round development of the student. To make the student corporate ready, the first year focuses on laying a foundation on the English Language Skills. The second year focuses on Self management and People Skills which include programs on Personality Development, Presentation skills, Goal Setting, Confidence building Conflict Management, Inter-personal Skills, Negotiation Skills, Team building and Decision Making. A pre-placement package in the final year focuses on Interview Skills, Group Discussions, Business Etiquettes and Work Ethics. The soft skills training is compulsory for all the students.

# BOARD OF STUDIES

<b>INFORMATION TECHNOLOGY</b>
1. Dr. Sunita Mahajan, Principal, MET
2. Mr. Akhilesh Srivastava (Head-IP Creation, CIG, Tata Consultancy Services)
<b>CIVIL ENGINEERING</b>
1. Prof. V.B. Vanvari, HOD (Civil), SBMP
2. Dr. A.R. Kambekar, Associate Professor, SPCE
3. Dr. V.M Topkar, Deputy Director, VJTI
4. Dr. H.M. Raje, Structural Consultant/Practicing Engineer
<b>COMPUTER ENGINEERING</b>
1. Dr. S.N. Merchant, Professor, IIT, Bombay
2. Dr. S.G. Bhirud, Professor - VJTI
3. Dr. Sasikumar M., Associate, CDAC
4. Dr. S.G. Wagle, Technical Director, MPHASIS S/w. & Services
5. Dr. PoornachandraSarang, Director, ABCOM Information Systems Pvt. Ltd.
6. Mr. Navjot Singh, Program Manager, EMC Academic Alliance
7. Dr. Amitava Bandyopadhyay, Head SQC & OR, Indian Statistical Institute., Calcutta
<b>MECHANICAL ENGINEERING</b>
1. Dr. Hari Vasudevan, Principal - DJSCOE
2. Mr. Pramod Jumle, Director - BOAT (WR)
3. Dr. R.S. Mani, Tech Nova Imaging System
4. Dr. Ajit Kothadia, Former Professor and Head Mechanical - VJTI
<b>ELECTRONICS &amp; TELECOMMUNICATION ENGINEERING</b>
1. Prof. N.S.T. Sai, Tech Mahindra
2. Mr. Ramani Iyer, Ex-DOT
3. Ms. Shivkamy Rajagopalan, DOT
4. Mr. Saurabh Srivashtav, NEC
5. Dr. R. D. Daruwala, VJTI
6. Mr. Sunil Kumar K, TCS
7. Dr. Joseph John, IIT Mumbai
<b>CHEMICAL ENGINEERING</b>
1. Dr. K.K. Tiwari (ex. ICT)
2. Dr. Hari Deo (ex. ICT)
3. Dr. D.D. Kale (ex. ICT)
4. Mr. Sahasranaman (Uhde India Ltd.)
5. Mr. Pradyot Jaykar (Free-lance faculty)
<b>TECHNOLOGY MANAGEMENT</b>
1. Mr.Shahrokh Bogli, Strota Georystems Pvt. Ltd. (India)
2. Mr. Vijay Chondok, President ,ICICI Bank
3. Mr. Humbad, Managing Director, Dorch Consultant
4. Mr. Satish Mittal, Vice President, Vodafone Ltd.
<b>MECHATRONICS &amp; INDUSTRIAL AUTOMATION</b>
1. Dr. Prasanna S. Gandhi, Associate Professor, IIT Bombay
2. Dr. K.P. Karunakarn, Professor, IIT Bombay
3. Mr. H. M. Vedant, Joint G.M. (D&A), L&T
4. Mr. Suhash Mukundan, Sr. Manager, Yaskawa India. Ltd.
5. Mr. Nitish Kati, MD, Pegasys Systems Pvt. Ltd.
6. Mr. Rajkumar Iyengar, G.M. - Bosch Foundation
<b>ELECTRICAL</b>
1. Mr. Ajay Rege, Vice President, International - STELMAC Ltd.
2. Mr. Rahul Rane, Head-Power Electronics & Automation Technology Centre - L&T
3. Mr. V.D Vaidya, Head Electrical Engineering - JACOBS India
4. Dr. Shubha Pandit, Principal - K J Somaiya COE
5. Dr. B.K. Lande, Director, Vasant Dada Patil COE
6. Dr. H.A. Mangalvedekar, Professor - VJTI
<b>B.TECH (INTEGRATED)</b>
1. Prof. U.M. Kantute, Principal, SBMP
2. Prof. Y. I. Shah, I/C Dean (Admn), SBMP
3. Mr. Pramod Jumle, Director, BOAT(WR)
4. Mr. P.K. Shah, Technical Advisor L&T (CTEA)
5. Mr. Devang Parekh, Sr. Research Associate, AICL Communications Ltd .
6. Mr. Paresah Haria, PCS Technology



# MPSTME MUMBAI CAMPUS

In addition to facilities at the main campus of NMIMS, Mukesh Patel School of Technology Management & Engineering is having a separate building with approx 1,20,000 sq. ft. area, which is on Plot A4 of SVKM on Bhakti Vedant Swami Marg, JVPD Scheme, Vile Parle (W) at a walking distance from the main campus of NMIMS. Administrative Block and faculty areas and other state-of-the-art facilities are present in this building. Further space of 60,000 sq. ft. is being planned for future requirements.

## Library

MPSTME Library is an essential component of the Institute, which is collectively support the teaching, research and extension programs of the Institute. The well-furnished and air conditioned library is located on the ground floor of the institute with seating capacity for 110 students. The library is divided into two sections: The Reading Hall with Stacking Area and The Administrative Area. The library provides comfortable and friendly environment that enables learning and advancement of knowledge, and promotes discovery. The mission of the library is to facilitate creation of new knowledge through acquisition, organization and dissemination of knowledge resources and providing for value added services. Library is fully automated with Libsys software. Library database (OPAC), which is currently on intranet, gives detailed information about library books (more than 11,500). Students can find out the real-time availability of library materials from their own computer terminals. The Library has an open access system facilitating the free use of materials on the shelves.

It has a rich collection of books predominantly related to management, engineering and allied subjects and periodicals (National / International), audio visual materials as well as 28 electronics resource such as Ebsco, ProQuest, Jstor, IEL Online, Springer, ASME, ASCE, Science Direct, ASTM DL, J-Gate, ACMDL, E-brary, McGraw-Hill books, Pearson books, ISI emerging markets, Crisil Research, Frost & Sullivan, CMIE: Economic outlook, CMIE: Prowess, Capitaline, CEIC Database, India Stat, WARC, TVADINDX, Harvard business school publishing, Manupatra, West Law and NPTEL Online videos. The Library offers several innovative information services including Journal's Content Service, News Paper Clipping Service, Orientation and Monthly Documents Additions Lists.

## Computer / IT Labs

Sixteen Computer / IT labs with 300 work-stations connected to internet supported by a 3 mbps leased line are available for use of the Students. It is also equipped with a wide range of licensed system software and applications software. The entire campus is connected with Wi-Fi network.





## Science Basic Labs

Chemistry and Physics labs with well equipped instruments are available for the students.

## Chemical, Mechanical & Civil Engineering Labs

The School has well equipped labs for Chemical, Mechanical and Civil Engineering.

## Electronics & Telecommunication Lab

Various labs namely, Electronics & Logic Circuits, Microprocessor Lab, Electronic Circuits and Micro- Controller, Digital Design Lab, Communication Lab & Advanced Communication Lab have been set up for use of students of all streams. MPSTME proposed to set up LUCAS – NULLC laboratories in the area of Communications and Network Technologies shortly. MPSTME had set up LUCAS – NULLC laboratories in the area of Communications and Network Technologies.

## EMC<sup>2</sup> Lab

MPSTME has a academic tie up with EMC<sup>2</sup> - the world leader in storage products. Also, EMC<sup>2</sup> storage equipment has been purchased to enable students to get hands on experience in Infrastructure Systems Management. The course work is designed around EMC<sup>2</sup> prescribed course work. This helps students get EMC<sup>2</sup> certification easily, which helps in placement in top companies.

## Cisco Lab

Cisco Networking Academy is a global education program that teaches students how to design, build, troubleshoot, and secure computer networks for increased access to career and economic opportunities in communities around the world. Mukesh Patel School of Technology Management & Engineering (MPSTME) is the authorized Centre of Cisco Network Academy in Mumbai. We offer training for CCNA Exploration leading to industry recognized CCNA certification. MPSTME has a well established lab having Cisco 2800 series routers, Cisco 3560 and 2960 switches and other related equipments to conduct training for CCNA exploration.

## Robotics Lab

MPSTME and Technophilia-iCarnegie signed a MoU for setting up Centre for Robotics and Embedded Systems Excellence. The

lab will enable students to take up iCarnegie certification programs. Training using this facility will help MPSTME students become quickly productive in industry.

## Audio Interactive Language Lab

NMIMS has pioneered the initiative of scientifically assisting students in preparing for group discussions or job interviews by developing an Audio Interactive Language Lab on the campus.

## Lab Support Staff

Lab Support Staff are available to assist students in planning and performing practicals / projects.

## Classrooms / Halls

All classrooms in the campus are air conditioned and have ceiling mounted LCDs with facility of Mikes, Speakers and Amplifiers. MPSTME has well equipped air conditioned Seminar Halls, Drawing Hall and Conference Hall for various programmes.

## Accommodation for Students

### Hostel for Girls

NMIMS has a well furnished hostel for girls by the name of MKM Sanghavi Girls' Hostel, which is located in close proximity to the university. Along with this, few limited residential flats are also available for providing accommodation to girl students.

### Hostel for Boys

Limited hostel accommodation is available for boys at G. R. Jani Boys' Hostel. Besides this, a few residential flats are also hired for providing accommodation to boys.

**Note:** The hostel accommodation is very limited and the university will assist the students in finding a suitable accommodation.



# MPSTME SHIRPUR CAMPUS

Shirpur is a town in North Maharashtra adjoining Madhya Pradesh and Gujarat. The state of the art infrastructure facilities are provided to the student with quality education at reasonable fees. Shirpur is a perfect example of a model township which has been developed by local organization under the leadership of Hon'ble Shri. Amrishbhai Patel, MLC, Maharashtra, President SVKM and Chancellor, SVKM's NMIMS.

Shirpur is one of the best towns in Maharashtra located in Dhulia District, which has the border touching to Madhya Pradesh and Gujarat. It is well connected by Road and Rail to Mumbai in Maharashtra, to Indore in Madhya Pradesh and to Vadodara in Gujarat. There are plenty of trees in and around the town and pollution free environment. The Shirpur Municipal Corporation was given the best Municipal Corporation Award by the State Government. The cleanliness of the town is maintained throughout the year. The drinking water is supplied after the purification in the modern plant. The education facilities, medical facilities, open area, playground and other amenities are superior to those available in many big cities in the country. Shri Vile Parle Kelavani Mandal started its Military School in the year 2000 and from the year 2007-08 it has started the Off Campus Center of its NMIMS University on a land area of about 50 acres.

Some of the top class amenities of the town include excellent medical facilities, modern primary and secondary school, pharmacy and engineering colleges, 24 hour UV purified water, modern well lit roads and a town hall which is a rarity in many cities in the country. It also boasts of the world's largest gold refinery and a spinning mill. It recently won a best township award from the Government of Maharashtra.





## Key Point of SVKM's NMIMS at Shirpur

- Away from the hustle-bustle of the city; the Shirpur off Campus Center, embraced by lush greenery is breathtakingly beautiful. The unpolluted, quiet atmosphere here creates the right ambience to study.
- Modern facilities provide ambience & support for curricular, co curricular & extracurricular activities for the overall development of students.
- 24 X 7 availability of Library, Laboratory with Internet facilities and dedicated and qualified faculty to ensure high standard of teaching – learning and evolution processes.
- Offers a blend of traditional and modern teaching techniques, with top rated faculty members.
- Periodic review and revision of curricula based on feedback from the industry with quick response to ensure the relevance of the programs to the changing needs of industry.
- Regular visits of the renowned & proven academicians / professionals from well known Industries, Research Organizations, IIT's and Top Ranking Education Institutions.
- Extensive use of e-resources with web based Black Board Learning Management System in Teaching and Learning.
- Value Added Training programs in collaboration with industry and reputed institutes.
- Well equipped Labs, Research and Innovation Centers
- BOSCH Center of Excellence in Automation Hydraulic, Pneumatic, PLC, Sensorics Mechatronics, and Robotics Labs.
- IITB Remote Center to conduct various workshops and seminars for faculty members under National Mission on Education (NME-ICT), MHRD Schemes.
- Accenture Innovation Center
- Spoken Tutorials (IITB) – Self paced e-learning platform to learn programming languages and open source softwares.
- QEEE is new live lecturing platform in collaboration with IIT Madras.
- As shirpur is a textile hub in North Maharashtra and B.Tech Textile students are having direct exposure to industry and practical are conducted in textile industry.

## Value

Shirpur off Campus Center delivers an outstanding value in private professional education; Students work closely with professors in the residential campus, have extensive research and publishing opportunities and are provided access to advanced equipment.

## Depth

Emphasis is on a well-round education that has resulted in good academic result, which is the core of all undergraduate study. The curriculum develops students through exposure to diverse areas of study and it emphasizes critical thinking and communication skill. This added depth gives a competitive edge to students in professional programs.

## Connections

NMIMS offers more than an excellent education. Professional direction for students is offered through the involvement of key industry advisory boards, corporate partners and student's pre-professional organizations.

## Campus Network

The campus network is based on a fiber optic back bone and GigaBit Ethernet technologies. The campus Network covers the class rooms, library, laboratory and hostel. The internet has all computer nodes and Laptops which are interconnected by a fiber optic network. Every classroom is equipped with Laptop / PC and LCD Projector integrated with campus wide Network.

## Wireless Hotspots

In addition to the wired network, the entire campus has a parallel wireless network. you will be able to access the entire networked resources from virtually anywhere in the campus. Branded Laptops with Mobile Technology has been provided for the same.

Students can Access the Internet round the clock and the learning resources available on the Campus Network. Black Board Learning Management System is extensively used to share knowledge and create an online learning environment. Thus, it makes possible for the students to access information resources from anywhere and anytime.



## Internet @ 28 mbps (1:1)

All members on the internet have access to internet 24 hours a day, through 28 mbps Internet Line. The internet bandwidth is enhanced every year.

## Research

All the Department presently have the twin objectives of delivering useful courses and of carrying out meaningful research. The NMIMS has carried out research works in multidirectional fields within its scope under the sponsorship of several organizations and has helped in solving quite a large number of problems for practicing engineers.

## Software Library

The Software environment includes Windows Client with Windows 2003 Server, SQL Server, DBMS, MS Office (Campus Wide License), Firewall and Spy wares, Oracle Package, Visual and Object Oriented Languages like Visual Basic & Visual C++ with .Net and Turbo C++, Java, Rd Hat Linux Original Pack, Squid Proxy Server etc.

## Central Library

Fully computerized and well stocked Library, with online access to books & E-journals where the thirst for knowledge is quenched. Library includes not only paper versions, but also electronic versions. CD-ROMs, Multimedia and online products

- Sufficient number of Library books / Tiles / Journals are available. (programmer-wise).
- Subscription for online National / International Journals and Digital Library.
- E-Library Facility is Available.

It has a rich collection of 32000 books complemented by seventeen various full text databases and 70,000 e-books from renowned publishers, videos etc. Covering 45000 Sq ft area.

- **Backbone:** Highly qualified dedicated faculty and Staff .
- Linkage with renown Educational/Research Institutes IITB remote centre, IITM QEEE, Technion University, Seneca Canada Stevense institute USA.
- Well Equipped sophisticated laboratories with instruments like HPLC, GC, UV/Vis Spectrophotometer, Auto titrator, Auto Analyzer, FTIR Brookfield Viscometer etc.

## Computer Engg. / Information Technology

Nine Computer / IT labs with 350 work-stations plus connected to Internet supported by a 70 MBPS leased line are available for use of the Students and staff. It is also equipped with a wide range of licensed system software and applications software. The entire campus is connected with Wi-Fi network.

For each Laboratory all required Modern Quality Equipment and Facilities are Available. The Computer Laboratories have latest Pentium computers / High End Intel® Corei3 systems with Windows XP / Linux OS with Wireless NICs in LAN, Printer, Scanner, DVD Burners, and Digital Cameras. These Laboratories provides various network based services such as Internet, Groupware, Database, Proxy, Email, Printing, Laptop & LCD Projector, Computer Center & Services etc. There are IBM & Dell Power-Edge servers and HP/Dell branded Workstation and Laptops. Campus Network – Internet / Intranet (Designed by CISCO) with Intelligent Switches and Hub to switch workstations connected as nodes. These would used for providing computer training and hands-on Practice to the students and also for running short term courses for the same. Facilities for R & D activities are available for faculty members and research scholars. These machines have 24 hours connectivity with Internet and have access to E-mail.

Akash Center, IIT, Bombay under the IITB & Aakash Project provides new technologies and tools are developed to further enhance the educational experience. Application development and content porting to Aakash tablet is being ramped up. Institute is registered as Remote Center for enhancing research and teaching experience. Research at this centres, aims at developing useful Open Source applications and contents for different versions of the tablet. These range from animations to scientific computing, and encompass the spectrum covering various courses taught at MPSTME, Shirpur.

## Blackberry Lab

Under the collaboration with Blackberry, Institute aims at enhancing the educational and research experience for mobile application and tools development. It also equipped with the latest blackberry devices like blackberry Z10 and blackberry playbook.





## Electronics and Telecommunication

The department of Electronics and Telecommunication has state of art laboratories namely Electronic Design, System Characterization, Electronics System Prototyping Facility, Optical Networks, Digital Design, Signal Processing, Microwave, etc. All the laboratories are well equipped with updated software such as MATLAB, IE3D, Xilinx and the hardware with latest configuration. All the computers are connected on LAN and Internet leased line.

Faculty Members of this department are actively participating in various conferences, workshops, seminars, training programmes at national and international level. The faculties also presented technical papers at national and international level conferences.

## Mechanical & Workshop Complex

Mechanical Department has 11 well equipped laboratories with latest instruments. Rankine cycle power plant, Universal testing machine, Hydraulic turbines, Diesel and Petrol engine test rigs, Vibration Measuring instrument, Different profile projectors are few to take the names. Mechanical Workshop includes medium and heavy duty lathes, universal drilling machine, vertical milling machine, shaper, planer and CNC machining centre. The department is blessed with well equipped with computational facilities and resources both in terms of hardware and software. SVKM's NMIMS is starting BOSCH Center of Excellence in Automation Hydraulic, Pneumatic, PLC, Sensorics, Mechatronics, and Robotics Labs to explore research in interdisciplinary engineering areas like Mechatronics, Robotics etc.

## Dept. of Civil Engineering

Department of Civil Engineering is equipped with Concrete Structure Lab, Geotechnical Lab, Survey Lab, Model Room and Universal Testing Machine in Strength of Material Lab etc.

## IEDC

Innovative Entrepreneurship Development Centre (IEDC), with the purpose of fostering and encouraging entrepreneurship amongst students, faculty and staff, and alumni of SVKM's NMIMS or any individual or group, interested and passionate for entrepreneurial activities. Students are encouraged to establish startup companies on campus.

## Lecture Halls

The Lecture Hall is airy, spacious and well ventilated, in conformity with international standards. Extensive use of audio-visual media and LCD Projectors enables the students to grasp advance technology quite easily.

## Conference Room

A conference room of corporate standard is one of the highlights of Shirpur Campus. Ultra modern Facilities to conduct board meeting, campus recruitment are available here.

## Seminar Hall

A seminar hall built to international standards is exclusively for intellectual activities like paper presentations, seminars, workshops, debates and inter-collegiate competition. Guest Lectures for the students and faculty improvement programs etc can be conducted here regularly.

## Hostel Facility

Separate hostel facilities are available for boys and girls. The Shirpur Campus Hostel has been constructed to provide a safe and congenial atmosphere to the students. Airy room luxuriously furnished with attached bathroom, access to Computer Lab, Cyber Center, Canteen, Library, Audio Visual Facility, Water cooler with purified drinking water, TV Room, Indoor games room and Gymnasium and a senior faculty member as Warden-Friend-Guide-Philosopher are the exclusive feature of the hostel. Ragging is strictly prohibited and strict discipline is maintained. 24 hours medical facility is available. The Campus is set amidst sylvan surroundings, enveloped by fresh air and greenery on the Mumbai-Agra Highway, away from the hustle and bustle of the city. The imposing building and the lush green lawn are wonderful salubrious ingredients for meaningful learning. Every effort has been made at this Campus that the main building conforms to high standards of quality in construction. Every minute detail has through about, planned and executed in this Center for Learning.

## Transport

Transport facility to Shirpur for boys and girls and strict monitoring by campus administration is prohibiting students from going to wrong places. To ensure safety and security and avoid unnecessary movement of student to Shirpur town. Most of the services are made available at campus stores.



# LINKAGES

## Linkages with the Community

Students are encouraged to become members of Professional Bodies and the school is also a corporate member of a number of such bodies. Students are also encouraged to form student chapters of Social Forums like Rotract Club and Social Responsibility Forums through which they are channelized to work for the community.

## Linkages with Technical Institutions in the Region

The school has on its Board of Studies several leading educationists like Principals, Ex-Principals and Sr. Professors of reputed engineering institutions, Ex- Director-IIT-Madras, Director-CDAC, etc. Continuous interactions are maintained with these institutions.

## IIT Mumbai Remote Centre

MPSTME is identified As 'Remote Centre' by IIT Bombay to conduct the IIT Bombay workshops (using video conferencing) approved by MHRD and ISTE. This makes our school a part of the National project managed by MHRD and IIT Bombay known as "National Mission for Education through ICT Empowerment of Students and Teachers through Synchronous and Asynchronous Instruction". The listing of our school can be found on the website:

<http://59.162.23.81/nmeict/wsmng/allrc.php?page=4>

## Linkages with Professional Bodies

The chapters and students' chapters of several national and international professional bodies are established at NMIMS and are organizing various activities. This includes IEEE, ISTE, IICHE, ISTD, ISME, IETE, PMI, AIESEC ASCE, ASME, SAE, ISA, ASM & etc.

## Linkages Abroad

In order to ensure that our brew has global appeal, NMIMS University has been collaborating with global institutions of repute. The relationships already exist with the following:

- Harvard Business School
- Grenoble Ecole de Management, Grenoble, France
- University of Houston, College of Engineering, USA
- Case Western Reserve University, Cleveland, USA
- Hanze University, Netherlands
- Technophilia & iCarnegie Inc., Pittsburgh, USA
- Ingolstadt University of Applied Sciences, Germany
- SAP Universities alliance program, Germany
- CETYS University, Mexico
- Warwick University, UK
- Steven Institute Of Technology, US
- Tel Aviv University, Israel

## Industry - Institute Linkages

NMIMS is proactive in Industry-Institute Partnership addressing all aspects, which enhances networking between academia and industry. The university maintains a sustained relationship with companies to expose the students to the realms of the corporate environment.

The primary focus of the school is to provide students with excellent education relevant to the present and emerging industry requirements. For this purpose the industry linkage is an important factor and this is in-built into the curriculum. Some of the steps taken in this direction are

## Industrial Training & Project Work

During third year students of MBA (Tech.) Program undergo industrial training and a minor project of 2 months duration. The objective of this training is to familiarize the students with the overall working of the Industrial Organization in their respective area of specialization & also to undertake a project.

During the fourth year the students undergo a major project of 3-5 months duration in the industry. This project will address the industry's pressing needs in any techno - managerial field. The objective of the programme shall be to enhance the students' managerial skills & promote a strong bonding with the industry.

Both the training / project work mentioned above carry full credits and the students would be evaluated based on their training performance, their project report & their performance in the subsequent presentation / viva examination.

Under B.Tech programme, students are required to undergo four to six weeks summer training in industry at the end of third year. It gives the interns a glimpse of the corporate arena and allows them to develop their skill sets. The college placecom maintains a database of students' profiles through which companies can search for prospective interns meeting their project requirements.



# EMINENT RECRUITERS

99 ACRES	GLASS WALL SYSTEMS	ODESSA TECHNOLOGIES
ABBOTT	GODREJ & BOYCE	OSTC
ACCENTURE	HAPPAY	PATRONOUS
ACHIEVERS ZONE	HAPPYDEMIC	PERI
ALFA CARPETING	HDFC BANK	PGD GROUP
ALL CARGO LOGISTICS	HDFC LTD.	PHILIP CAPITAL
AMDOCS	HEALTH ORANGE	PIRELLI
APOLLO FINVEST	HFFC	PUNJAB NATIONAL BANK
ARAMEX	HI2BUY	PURANIK
ARANCA	HPe	PWC
ARISTOTLE	IBEXI	RAJE CONSULTANTS
ARTHA VENTURES	IBM	RAZORPAY
ATUL	I-CAN FINANCIAL SERVICES	RELIANCE JIO
AVALON GLOBAL RESEARCH	ICICI BANK	RETAILON
B2X	ICICI SECURITIES	RHENUS LOGISTICS
BANK OF INDIA	IDEA	S&P CAPITAL
BARCLAYS	IDEAFORGE	SANMAR
BASF	IGATE	SERVIFY
BERGER PAINTS	INDUS VALLEY PARTNER	SHAPOORJI PALLONJI
BIGTREE ENTERTAINMENT PVT LTD.	INDUSIND BANK	SHETH PUBLISHING
BIZONGO	INFORMATICA	SHOPPERS STOP
CALVIN KLEIN	INFOSYS	SIEMENS FINANCIAL SERVICES
CAPITAL FIRST	INGRAM MICRO	SILVER HILL
CAR DEKHO	ITC HOTEL	SKILLSTREET
CITRUS PAY	ITRANSPARITY	SOKRATI
CMIE	JARO EDUCATION	SQUIK
CMS	JLL	SS&C GLOBEOP
COLDWELL BANKER	JUSTDIAL	TATA AIG
COLLIERS INTERNATIONAL	KANSAI NEROLAC	TATA ELXSI
COVACIS	KARVY COMMODITIES	TAVANT TECHNOLOGIES
CREDIT SUISSE	KARVY STOCK BROKING	TECH PROCESS
CREDR	KNIGHT FRANK	TECHNIP
CRISIL	KOTAK MAHINDRA BANK	TERADATA
DAIKIN AIR CONDITIONING	KOTAK SECURITIES	THINK ANALYTICS
DECATHLON	KPMG	THOMSON REUTERS
DELL	L & T INFOTECH	THOUGHT WORKS
DELPHIAN LOGIC	L&T CONSTRUCTIONS	TICK SOFTWARE
DESTAR INFOTECH	LENDBOX	TRAFIGURA
DIMENSION DATA	LG	TRANSVEN LIFESTYLE MANAGEMENT PVT. LTD.
DIRECTI MEDIA	LIASES FORES	TRESVISTA FININACIAL SERVICES
DRONA AVIATION	LOAD DIAL	TUBE MOBILITY
DUN & BRADSTREET	LUPIN	TUSCAN VENTURES
EATON	MACHADALO	TUTELMINDS
ELGi	MADISON	UCO BANK
EMERSON	MAHINDRA LOGISTICS	VILASRAO DESHMUKH GROUP OF COMPANIES
ENTRUST DATACARD	MAHINDRA RISE	VISTAAR FINANCIAL
ERNST & YOUNG	MAJESCO	WEBONISE
ETP	MAQ SOFTWARE	WEBXPRESS
EUREKA FORBES	MASSBLURB	WELSPUN
EVALUENZ	MB CAPITAL	WERAFOOD
EXIDE	MOTILAL OSWAL FINANCIAL SERVICES	WNS
FACTSET	M-TAXI	WOOPLR
FIS GLOBAL	MU- SIGMA	XL DYNAMICS
FUJITSU	NABARD	YARDI
FUTURES FIRST	NAUKRI.COM	YES BANK
GALAXY SURFACTANTS	NETCORE	ZS ASSOCIATES
GATEWAY TECHNOLABS	NIELSEN	ZYCUS
GE	NOMURA	
GENERAL MILLS	NSE	

# FEEDBACK FROM INDUSTRY

## Siemens Financial Services

Most of the candidates showed above average awareness, confidence & Clarity. Overall a good Batch.

## Accenture

"NMIMS students are industry ready and well groomed. Quality and Co-ordination went beyond expectations. Students Quality was as expected & looking forward to same in coming years. Loved the Campus. The hospitality was amazing be it the staff or the students. Thanks a lot for all the help & support. Thanks again!!"

## Tata Croma

Good exposure to students through long Internships.

## Ernst & Young

"Very well organized. Extremely structured. Bunch of Enthusiastic students. All the Best!!"

## The Service Solutions

Overall a good experience & students were found to be reasonably ready for Industry. Wishing All the Best!

## Mu – Sigma

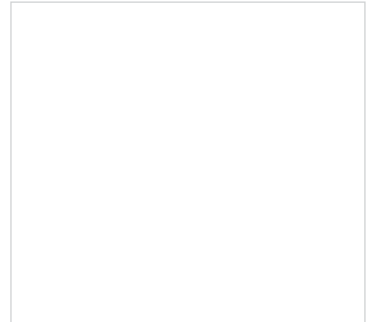
"Very courteous, helpful, attentive & smart students. Keep it up!!"

## Seclore Technologies

"Very good team. Good talent. Very Good Infrastructure & Hospitality. Would like to visit again next year."

## Tresvista Financial Services

"Very good experience, nice bunch of people, talented & impressing. Looking forward to build a relationship. Excellent College, great infra & thank you for the great hospitality."





# STUDENTS INITIATIVES

## International Achievements

- Students of MPSTME from 3rd and 4th year batch of B. Tech and MBA tech participated in 14th Annual **International MATE ROV** Competition on 25th-27th June, 2015 organized by MATE- NASA Alliance project technical competition and ranked 3rd in Marketing Display Category
- Students of MPSTME from 3rd and 4th year batch of B. Tech and MBA Tech participated in **2nd Human Exploration Rover Challenge** Technical Project - Completion on 17-18th April, 2015 organized by **NASA** and was awarded as 'Best System Safety Engineering Award' and 'Team Spirit Award'
- A team of 6 students (Mit Vaidya, Ishan Sonavane, Mihir Joshi, Ravi Teja Malladi, Kriti Singh and IshaTawde) and Prof. Sawankumar Naik, Mentor from SVKM's NMIMS Mukesh Patel School of Technology Management & Engineering selected and participated in the completion of **NASA's 3rd Human exploration rover challenge** bagged two awards "System Safety challenge Award" and "Best Designer Report" along with prize money of \$250 which was held at U.S. Space & Rocket Centre, Huntsville, Alabama, USA from 7th April to 9th April 2016.



- A team of 12 students from team screwdrivers under the guidance of Prof SawanKumar Naik and leadership of Rishi Bafna represented India at **15th Annual International MATE ROV** Underwater Robotics competition held during 23rd to 25th June 2016 in NASA's Johnson Space Centre Texas, USA. The Team ranked 6th in Marketing Display Category among 69th team participating from 16 countries and won the Aloha Team spirit award. The following students participated in the competition Vijendra Joshi, ShambhaviTripathi, Ankit Sharma, Aditya Mulgundkar, Sarthak Agrawal, Rajas, Sanjana Gupta, Shalim, Alolika Biswas, Amala and Mridul Sharma.



- MPSTME ASCE (International student conference)**

MPSTME, Mumbai is having an international student chapter of ASCE in Department of Civil Engineering since last three years. They conduct different academic activities at school and inter-collegiate level. This year (2016) the team of 22 students from B.Tech and MBATech.(Civil) has participated in International Student Conference at NCAT, Greensboro, USA during March 31, 2016 to April 2, 2016. Students participated in following events: Concrete Canoe, Steel Bridge making, Environmental Engineering model, Hydraulic arm, Mead paper presentation, Traffic quiz, T Shirt making, Surveying Students have designed and casted Concrete Canoe in the Mumbai campus. It was a work of about 2 months. The theme of conference was "Sustainability". Total 13 international teams (ASCE student chapters) participated in the conference. This was India's participation for the first time in such conference. Team Technocrats-2016 bagged 5 awards in the student conference at NCAT, Greensboro. Out of above mentioned categories Team Technocrats-2016 bagged awards in 3 categories. Environmental model (3 awards), Hydraulic arm (1 award).



- Google Marketing Challenge Global Winners met Hon'ble HRD Minister Smriti Irani**

Under the guidance of Prof. Shilpa Sawant, the team of Saumil Tripathi, Shreeyash Dharmadhikari, Jainam Talsania, Jelam Bhatt and Agastya Sanjai, in their third year, pursuing MBA -Tech in IT met the Union HRD Minister, Smt. Smriti Irani on 23rd of February, 2016 to receive her wishes on having become the Global Winner of the Google Online Marketing Challenge, 2015. This is also the first Indian team to have won this challenge and has recently spent a week in California, USA to interact with executives at Google Head Quarters in Mountain View, California.



## • Mumbai MUN

Fortifying MUN Society, MPSTME's efforts to establish ourselves among the most reputed universities of the world, this year's delegation for Harvard World MUN, Rome performed outstandingly well. Harvard World MUN is the most internationally diverse college-level conference that saw a participation of 2,500+ currently enrolled university students from over 115 countries. This year delegation of eight students of MPSTME flew to Rome, Italy for the 25th edition of the conference held on 14-18th March 2016. Carrying forward the legacy of being the only university from India having consecutively won awards on this global platform students of MPSTME proved their mettle once again.



- Sumati Joshi and Urvi Talaty from MPSTME emerged as winners for the social venture challenge, receiving a Resolution Fellowship entailing seed funding for their venture, ongoing mentorship and access to Resolution's network-a true ecosystem for entrepreneurship. The Resolution Fellowship is awarded to socially responsible leaders for outstanding dedication for making positive change, and helping others today, and for lifelong commitment to sustainable impact.



- Siddharth Raja** student of computer engineering from Mukesh Patel School of Technology and Management developed iFreedom App Featured in famous Entrepreneurship platform YourStory.com
- Prayashi Bohra** Student of Computer Engineering Department participated in "Best Paper competition and won prize for international conference ICCIC held on 11th December 2015 organized by IEEE ICCIC conference held at VICKRAM College of Engineering.
- Roxan Karanjia** student of Mukesh Patel school of Technology Management and Engineering participated in "Applied Computer Science with Android competition in 2015 and selected as the Google Ambassador.
- Students of B.Tech Mechanical Department of MPSTME have participated in the BAJA student India Competition. This team stood 4th among 55 other teams in the Business Presentation competition.

## • Blackberry Application Development competition

Conducted on 28th May, 2015 Organized by MPSTME and sponsored by Blackberry. The following students were the winners of the competition Mr. Harjyot Singh Lidher, Mr. Rajas Kiran Jambekar, Mr. Vijayender Joshi, Mr. Mihir Khadilkar Mr. Utsav Bhatt, B.Tech from B.Tech IT 4th Year B.Tech Computer, 3rd Yr, B.Tech IT 4th Year.

## Cultural Committee

"The culture of an individual, comprising positive personality, strength and vision to excel in life, is cultivated through events and people around them."

Every year committee organizes events like Freshers' Party, Dandiya Raas, Traditional Day, Chocolate Day, "Cultural Carnival" etc. The cultural committee is a committed team of faculty members and cultural supervisors who guide and help the students to cater to their aesthetic urges.





## SATTVA (Cultural Festival)

'SATTVA' the Annual Cultural Festival of our college is organized by the Cultural Committee, Technical Committee and Sports Committee of MPSTME endeavors to nurture the spirit of dynamism, unity, strength of character and sportsmanship in the students. In its relentless pursuit of bringing the talents of its students to the fore, the committee regularly organizes several competitions throughout the year, including an annual mega national fest at the end of each academic year. The events were judged by eminent people from film industry like Ayaz Khan, Dolly Bindra, Nemo Chakravarti and so on. The competitions include the annual literary events, performing arts, management events like Stock market exchange, Biznetie and creative events which include debates, quizzes, creative writing competitions, singing talent hunt, dance competitions, painting competitions, tattoo making, Jugard and much more and also conducted sports like Box cricket, Rink football, land gaming etc. This year SATTVA was highlighted by the live performances of singers like Sachin & Jigar, DJ NYK, DJ lemon, DJ Anisood, DJ Climent and DJ Lost Stories and Willy.

Sattva, the grand annual festival of MPSTME, is a mega festival consisting of Technical, Management and Cultural events. The festival includes many professional workshops as well. The festival is entirely managed and run by the students of college.



## Technical Committee

The word TECHNICAL refers to 'knowledge and proficiencies required in the accomplishment of engineering, scientific, or any specific task.'

The Technical Committee of SVKM'S NMIMS MPSTME is a group of technically efficient teachers and students who work towards enhancing as well as discovering technical abilities in students by organizing various workshops and competitions like technical quiz and debugging competition under the guidance of experts who share their knowledge with students.



## TAQNEEQ (Technical Festival)

The Technical committee of MPSTME organize a Technical Festival, TAQNEEQ with the various theme every year. Taqneeq in its 8th version, was created to recreate vision and offer to each and every participant, a dynamic experience of learning and fun. This year students of Mukesh Patel School of Technology and Management conducted 20 Technical events like Light photography, RC football, Nintendo Wii, Laser Tag, Technical paper presentation & DJ workshop etc on 6-7 of April 2016.





## Sports Committee

### Conquer

Conquer is the annual sports fest of Mukesh Patel School of Technology Managements & Engineering, NMIMS University, Vile Parle (W) held on 15th February 2016 to 24th February 2016. Students' Council's Sports Committee pushed itself to innovate, experiment and create a memorable and mesmerizing inter-collegiate sports fest. This time it involved participation of enthusiasts from various colleges across Mumbai city. We have had the colleges' best sports fanatics battle it out in different events inclusive of cricket, rink football, table tennis and basketball and finally conquer the place with an excellent show of their talents. In Conquer, the players not only win medals but with their courage, self-motivation and will-power they also manage to conquer people's heart. The streak to achieve excelsior encourages the participants to work harder every day.

### Yuva 2016 – A Mega Cultural & Sports Event

SVKM has organized Yuva - 2016 – a Mega Cultural & Sports event from 11th Jan. to 16th Jan. 2016. We are proud to announce that in the Games section, Faculty team of MPSTME stood 1st and won the trophy in Cricket. Besides, in non-teaching section, our staff team secured runners-up trophy in cricket.



## Protsahan

PROTSAHAN is the Annual Cultural, Technical and Sports Festival organised every year by the students of SVKM's NMIMS Shirpur campus. Annual festival conducted and managed by the students under supervision of the faculty and staff members. Apart from sports, cultural and technical events, Protsahan comprises some social events also. This activity helps to enhance creativity, event management skills and showcase hidden talent of the students.

## Amboria

Amboria is the technical fest conducted under students of SVKM's NMIMS Shirpur campus. It is aimed at mobilising the keen minds in the engineering institutions. Through Amboria students can inculcate the importance of individuality and originality which are vital in most of the engineering prospectus these days. To inspire students to think, develop and come as pioneer of technical interpretation are Amboria's prime objectives.

## Social Impact Cell

Social Impact believes in giving back to society by doing as much as they can. They organize donation drives and Health Check-up

### • Blood Donation Drive

Students' council social impact in collaboration with Mahatma Gandhi blood bank organized a blood donation drive on 26th October, 2015 where 221 Students of MPSTME donated blood.



### • Health check-up

Students' council organized health check up with the doctors of Lifeline hospital on 7th September 2015. The health checkup was done by all streams of MPSTME.



# PLACEMENT 2016

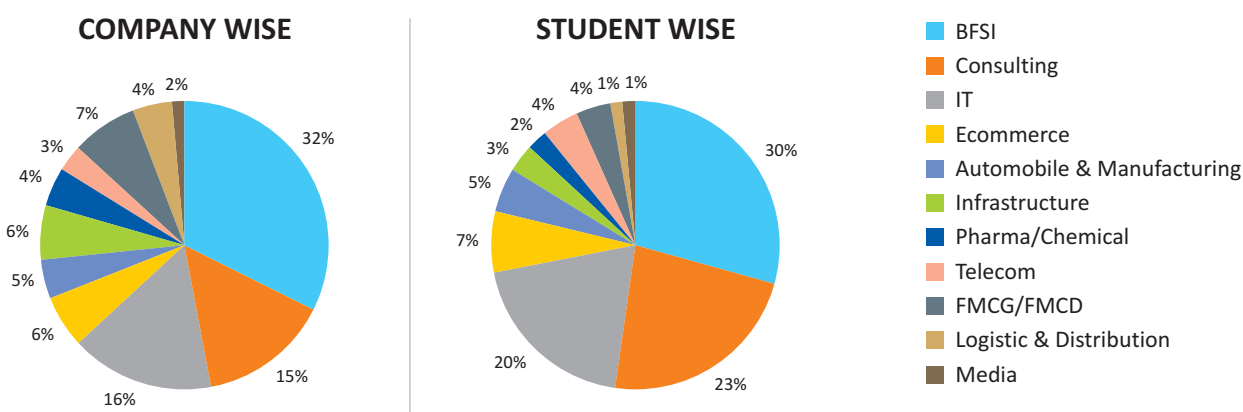
## MBA (Tech.)

MBA (Tech.) Programme, is the first of its kind in the country, was launched in 2004 by NMIMS University to address major industry requirement, viz. the amalgamation of Engineering & Management fields into a single capsule. MBA (Tech.) is an integrated course that aims at the amalgamation of Engineering and Management spread over a period of 5 years. In this programme the students are awarded with B.Tech degree in their respective branch of Engineering i.e. Information Technology, Computer Science, Civil, Electrical, Electronics & Telecommunication, Chemical and Mechanical. Concurrently, they also specialize in Management disciplines like Finance, Marketing, Operations & Project Management and Business Intelligence & Analytics.

The Placement activities are divided into 3 Phases.

- Summer Placements for the Third year students in Technical Internship
- Summer Placements for Fourth year students in Management Internship &
- Final Placements for the Fifth year students.

## Final Placements 2016



**Highest Package : 14 Lacs (INR) • Average Package : 6.56 Lacs (INR)**

## B.Tech.

### Highlights of Batch 2015-16

- **84 companies** considered our students for Final Placements

#### INTERNATIONAL

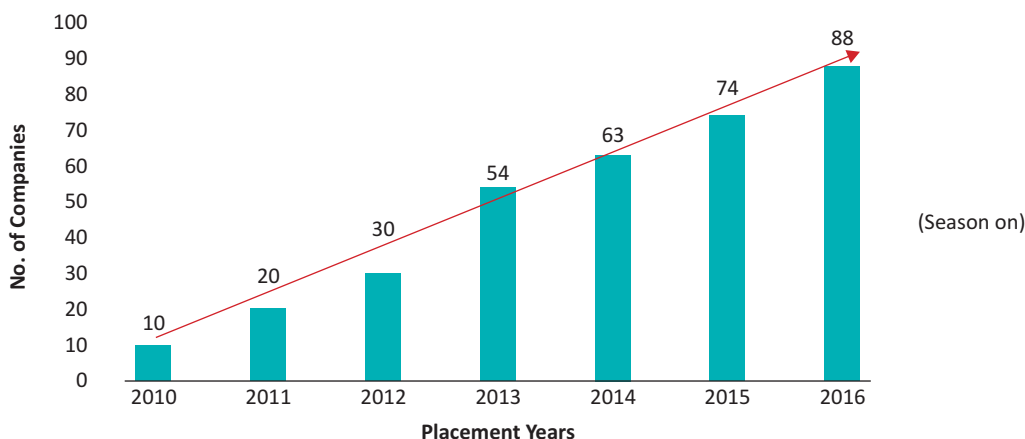
- Highest Package: **6,000,000 YEN – Rs. 37 Lakhs INR (Approximately)**
- Average International Package: **35 Lakhs INR**
- **8 students** selected to work directly at international location like Singapore, Tokyo, etc.

#### DOMESTIC

- Highest Package : **8.09 Lakhs per annum**
- Average Package: **4.50 Lakhs per annum**

### Number of companies: On a rising trend

No of companies that have considered our students for Final Placements for Batch 2016



# STUDENTS SPEAK



The four years of Engineering at this esteemed institute have undoubtedly had an irrevocable impact on molding me into the person I've become. The course tutelage provided me with a platform and ideal climate to grow as an individual and develop cross disciplinary interests. Whereas, being part of the Placement Committee, gave me the opportunity to step into the corporate world and directly interact with many leading organizations and firms of today. It has molded me into a more positive, confident individual, ready to face any challenge. I am greatly thankful for these four years of learning, experiences, challenges, fun and lifelong friendships.

**Soumya Shukla**

B.Tech IT - Batch 2016 pass out

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The best 3 years of my life filled with growth excitement, responsibilities and the most amazing learning experience one should ask for. Being a student placement coordinator and working selflessly for my Batches of 2016 has given me a broader perspective and a good understanding of life and made me confident enough to become the only girl to hold an International Placement from the Batch of 2016.

**Namrata Poddar**

MCA - Batch 2016 pass out

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It has been a wonderful experience. Apart from a student It was a splendid opportunity and an honor to be a part of something as important as the B.Tech Placement cell of our college. Be it as the student of MPSTME or as a placement coordinator, I have learned a lot and now that I am working, I can see how it has shaped me into the person I am today. I can only hope, that as an alumni I can give back to the college and the B.Tech Placements cell in any way I can.

**Kriti Singh**

B.Tech EXTCD - Batch 2016 pass out

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In a student's life, the years spent in college are the ones that shape the personality for life. The 4 years that I have spent in MPSTME have done just this. I have through my participation in sports, college activities and being a member of the B.Tech Placement Committee have moulded myself into a confident individual who will be able to justify the role of 'Student Ambassador' with ease. I take this opportunity to say thank you to all those people that have been instrumental in shaping the person that I am today. Looking back on the last two years, I can definitely say that I have grown not only personally but also professionally and I would like to bring the same change in students passing out from MPSTME henceforth. I wish to remember the contribution of my Professors, the B.Tech Placement Cell and my friends for constantly being there for me. I will take the responsibility of encouraging all students to grow, mature and succeed.

**Aniruddha Bhajan**

B.Tech CS B - Batch 2016 pass out





I would like to thank NMIMS MPSTME for the rigorous curriculum which makes us technically sound in all subjects, for well-crafted internship programs which makes us industry ready and for superabundance of opportunities across the globe Which makes us confident and sound individuals. It is because of the worthwhile time spent in college with talented students and esteemed professors, that I am able to do justice to my role in Risk in Siemens Financial Services. I would be pleased to help our alumni network grow as a college ambassador.

**Ruchi Adhikari**

Siemens Financial Services - Batch: 2014

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The MBA (Tech.) program at NMIMS's MPSTME provides the dual aspects of technical dexterity and managerial proficiency, which enables students to discover their limitless potential and distinct capabilities. The inputs of the course delivered over five years are replete with academic as well as co-curricular activities. Highly experienced faculty and state of the art infrastructure, combined with extensive co-curricular activities like NASA Lunabotics, Harvard World Model United Nations, Enactus Conclave truly bring out the excellence in each student. By undergoing multiple technical and management internships, MBA (Tech.) students take up roles as executives and business leaders early on, thereby making them industry ready. Innovation is the lifeblood of MBA (Tech.) where students are trained to challenge the status quo and come up with fresh ideas and perspectives, thus benefiting themselves as well as the global organisations they serve.

**Ishaan Sharma**

Nerolac - Batch: 2015

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The MBA(Tech.) course along with the Internships is structured in a way that it creates a perfect blend between the technology and management aspects of the industry. The Internships go a long way in opening the gates to our future corporate lives, making sure we are ready for the next step of our career.

The best part of the journey at MPSTME was managing non-academics alongside the academics, which helped me learn multiple life lessons. Being a part of various committees, working on multiple projects where you get to put the theory you learn into practice, representing the college at national and international competitions has given me immense exposure and helped me create a multi-faceted outlook.

I will always be grateful for the enriching and unforgettable five years spent at MPSTME and wish the college great success for the years ahead.

**Shiruy Daver**

BASF – Batch 2016

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“MBA-Tech was not merely a course for me; it was rather an avenue of myriad of opportunities that provided equitable platform to each student in diverse fields to fulfill their aspirations. These five years of gruelling academic and practical exposure has not only nurtured my personality but also holistically prepared me for all possible challenges. This course has offered a seamless blend of Technology and Management curriculum, which has provided me with a unique knack for qualitative yet analytical rationale thinking.”

**Chaarul Chandra**

Hewlett Packard – Batch 2016

# STUDENTS PURSUING HIGHER EDUCATION IN REPUTED UNIVERSITIES ABROAD

- | Arizona State University, USA
- | Aston Business School, UK
- | Bournemouth University, UK
- | Bursaries University, UK
- | Cambridge University, UK
- | Case Western Reserve University, Ohio, USA
- | Chalmers University, Sweden
- | Claremont Graduate University, USA
- | Coventry University
- | ESC - Lille University, France
- | Hult International Business School, USA
- | IIT Chicago, USA
- | Illinois Institute of Technology, USA
- | LaTrobe University, Australia
- | Murray State University, USA
- | NCGILL, Canada
- | New Castle University, London, UK
- | New Jersey Institute of Technology, USA
- | New York Institute of Technology, USA
- | North Carolina State University, USA
- | North Eastern University, USA
- | North Western University, USA
- | Northumbria University, UK
- | Nottingham University, London, UK
- | Ohio University, Ohio State, USA
- | Oklahoma State University, USA
- | Pace University, USA
- | Pennstate University, USA
- | Polytechnic Institute of New York, USA
- | Purdue University, USA
- | Renefslaer Polytechnic Institue, New York, USA
- | Rochester Institute of Technology, USA
- | Southern Methodist University, USA
- | Stanford University, California, USA
- | Stevens Institute of Technology, USA
- | Suny Buffalo, USA
- | Suny Stony Brook University, USA
- | Syracuse University, USA
- | Thomas More College, Kentucky, USA
- | University of Boulder, USA
- | University of California, USA
- | University of Colaredo, Boloder, USA
- | University of Florida, USA
- | University of Glasgow.
- | University of Houston, USA
- | University of Maryland, USA
- | University of Massachusetts, USA
- | University of Michigan, USA
- | University of Reading, USA
- | University of Rochester, USA
- | University of Southern California, USA
- | University of Technology, Sydney, Australia
- | University of Texas, Dallas, USA
- | University of Torento, Canada
- | Warwick Business School, UK
- | Warwick University, UK



# PROGRAMMES OFFERED

## Master of Business Administration (Technology) - MBA (Tech.)

B.Tech. and MBA (Tech.)

- Information Technology
- Computer Engineering
- Electronics & Telecommunication Engineering
- Civil Engineering
- Mechanical Engineering
- Chemical Engineering
- Electrical Engineering

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## Bachelor of Technology (B.Tech.)

- Information Technology
- Computer Engineering
- Electronics & Telecommunication Engineering
- Civil Engineering
- Mechanical Engineering
- Mechatronics Engineering
- Electrical Engineering
- Textile

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## B.Tech. (Integrated Diploma-Degree)

- Computer Engineering
- Electronics & Telecommunication Engineering
- Civil Engineering
- Mechanical Engineering

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## Master of Computer Applications (MCA)

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## Master of Technology (M.Tech.)

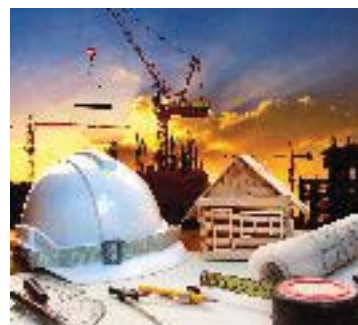
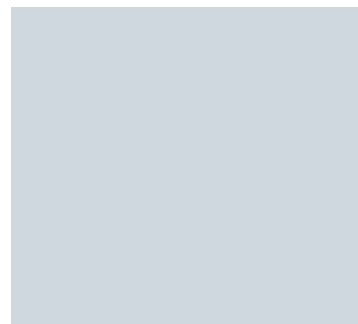
- Computer Engineering
- Electronics & Telecommunication Engineering
- Industrial Automation
- Data Sciences (Business Analytics)
- Mechanical Engineering

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## Ph.D.

- Engineering Sciences
  - Technology Management
- 

The details about the Mumbai and Shirpur campuses and programmes are given in the following pages.





# MBA (Tech.)

## Master of Business Administration (Technology)

B.Tech. and MBA (Tech.)

### Programme Duration

The course of study for the Master of Business Administration in Technology, MBA (Tech.) shall extend over five years consisting of ten semesters.

### Specializations Offered and Intake

Six technology areas are being offered at Mumbai as well as Shirpur campuses.

Areas	Mumbai (No. of Seats)	Shirpur (No. of Seats)
Information Technology	60	40
Computer Engineering	60	60
Electronics & Telecommunication Engineering	60	40
Civil Engineering	60	40
Mechanical Engineering	60	60
Chemical Engineering	30	-
Electrical Engineering	40	40

### Career Opportunities

MBA (Tech.) Programme delivers state-of-the-art management and technology knowledge and skills to the students. These tech-savvy managers are fully equipped to create optimum and holistic solutions in business organizations. This has been amply substantiated by the feedback received by NMIMS from various organizations where MBA (Tech.) students happen to be working.

### Unique Features of The Programme

- The programme involves two internships in the organizations for a total duration of about 7 months. Thus students get long enough exposure to the real working conditions and are able to contribute to the organizations literally right from day one of joining.
- The course curriculum is reviewed and updated on a regular basis to ensure that its relevance to the organizations is sustained.

### Eligibility

The candidate must have passed in 10+2 or equivalent exam including international IB Diploma (IB certificate awarded is not eligible) with Science or Science Vocational (with PCM and English as subjects) and obtained minimum 50% marks in PCM (Minimum 150 marks out of 300) for Mumbai campus & 45% marks in PCM for Shirpur campus. Those awaiting their 10+2 exam results this year may also apply.

**Note:** For details, please visit website: [www.nmims.edu](http://www.nmims.edu)

### Selection Process

Students are admitted to the MBA-Tech. Programme if they meet the required standards Selection process described below:

All eligible candidates who wish to apply for admission to the MBA (Tech.) Programme will be required to register online at [www.nmims.edu](http://www.nmims.edu) to appear for a Entrance Test NPAT to be conducted at various locations in India.

Merit list will be prepared on the basis of the performance of the candidate in NPAT. Candidates will be called for counseling session at Mumbai based on the merit list. In the counseling session candidates will be given admission to various disciplines as per their merit, choice and availability of discipline as per eligibility criteria.

# MBA (Tech.)

## Information Technology

### First Year (Common for All Branches)

Semester I	Semester II
Engineering Mathematics-I	Engineering Mathematics-II
Engineering Chemistry	Engineering Physics
Basic Electrical Engineering	Basic Electronics
Engineering Mechanics-I	Engineering Drawing
Computer Programming-I	Engineering Mechanics-II
Workshop Practice	Computer Programming-II
Constitution of India	Communication Skills

### Second Year

Semester III	Semester IV
Data Structures and Algorithms	Computer Networks
Digital Logic Design	Microprocessor and Microcontroller
Web Programming	Principles of Communication Engineering
Engineering Mathematics - III	Operating Systems
Advanced Java	Database Management Systems
Structured System Analysis and Design	Human Computer Interaction
Signals and Systems	Microeconomics
Business Communication	Statistical Methods
Contemporary Practices in Management	

### Third Year

Semester V	Semester VI
Information Security	Computer Simulation and Modeling
Digital Signal Processing	Object Oriented Modeling and Design
Wireless Networking	Implementation of Technology
Service Oriented Architecture	Distributed Computing
Ethics for IT Users	Ethics for IT Organization
Research Methodology	Quality Management Systems and Practices
Macroeconomics	Project Management
Financial Accounting	Cost and Management Accounting
Information and Communication Technology Management	Project Planning and Execution
Managing Data with Spreadsheet	Innovation - I Insights for Innovation
	Innovation - II - Thinking tools for building solutions

## Fourth Year

Semester VII	Semester VIII
TIP (8 Weeks during summer vacation)	
<b>Elective - I (Any One)</b> <ul style="list-style-type: none"> <li>• Data Warehousing and Mining</li> <li>• Software Quality Assurance</li> </ul>	<b>Elective - III (Any One)</b> <ul style="list-style-type: none"> <li>• Advanced Database Management Systems</li> <li>• Image Processing</li> <li>• Embedded Systems</li> <li>• Advanced Computer Network</li> </ul>
<b>Elective - II (Any One)</b> <ul style="list-style-type: none"> <li>• Artificial Intelligence</li> <li>• Information Storage Management</li> <li>• Multimedia Systems</li> <li>• Mobile Computing</li> </ul>	Sustainable Business Management Practices
	Advanced Business Communication
	Human Resource Management
	Business Analytics
	Industrial Marketing
Financial Analysis and Working Capital Management	Financial Management
Legal Aspects of Business	Research Project -I
Marketing Management	<b>Skill Enhancement Course: (Any Two)</b> <ul style="list-style-type: none"> <li>• Enterprise Planning Systems</li> <li>• Application of Business Analytics</li> <li>• Marketing Analytics II - Forecasting and New Product</li> <li>• Analytics</li> <li>• Principles of Project Construction Management</li> <li>• Real Estate and Finance</li> </ul>
Management of Technology and Emerging Trends	
Research Methodology	
Operations Management	
Organizational Behavior	
<b>Skill Enhancement Course: (Any Two)</b> <ul style="list-style-type: none"> <li>• Effective Negotiation Skills</li> <li>• Programming for Analytics</li> <li>• Marketing Analytics I - for Strategic Decision Making</li> <li>• Introduction to Real Estate Sector</li> <li>• Real Estate Laws and Regulations</li> </ul>	



### Fifth Year (Common for All Branches)

Semester IX	Semester X
MIP	Internet of Things (IOT) Management
Innovations Management	Business Simulation Through Software
Knowledge Management	Leadership
Organisation Design and Development	Research Project II
<b>Skill Enhancement Course: (Any One)</b> <ul style="list-style-type: none"> <li>Marketing Analytics for Strategic Decision</li> <li>Financial Technical Analysis</li> <li>Lean Six Sigma</li> <li>Big Data Analytics</li> </ul>	Sustainable Business Management Practices <b>Skill Enhancement Course: (Any One)</b> <ul style="list-style-type: none"> <li>Business Valuation Modeling</li> <li>Marketing Analytics - Marketing Mix Models</li> <li>Quality Function Deployment (QFD) for New Product Innovations</li> <li>Advance Tools for Business</li> </ul>
<b>Domain Electives:</b> <b>Any 4 or Minimum 3 from Domain Specialization &amp; 1 from any other domain )</b>	<b>Domain Electives:</b> <b>Any 4 or Minimum 2 from Domain Specialization &amp; 2 from any other domain)</b>
<b>Domain Specialization: Business Intelligence and Analytics</b> <ul style="list-style-type: none"> <li>Data Mining &amp; Analytics</li> <li>Big Data Technology</li> <li>Business Models in Digital Economy</li> <li>Base Programming</li> <li>Technology Ventures</li> <li>Cyber Security Management</li> </ul>	<b>Domain Specialization: Business Intelligence and Analytics</b> <ul style="list-style-type: none"> <li>Visual Analytics</li> <li>Managing Cloud Computing</li> <li>Predictive Analytics</li> <li>ETL-Data Gathering and Loading</li> <li>Business Dynamics of IT Industry</li> </ul>
<b>Domain Specialization: Finance</b> <ul style="list-style-type: none"> <li>Financial Institutions and Markets</li> <li>Investment Banking and Financial Services</li> <li>Security Analysis</li> <li>International Finance</li> <li>Management of Mergers and acquisitions</li> </ul>	<b>Domain Specialization: Finance</b> <ul style="list-style-type: none"> <li>Financial Planning and Portfolio Management</li> <li>Financial Risk Management</li> <li>Project Infrastructure and Finance</li> <li>Financial Engineering</li> <li>Financial Analytics</li> </ul>
<b>Domain Specialization: Marketing</b> <ul style="list-style-type: none"> <li>Brand Management</li> <li>Sales &amp; Distribution Management</li> <li>Buyer Behavior</li> <li>Integrated Marketing Communication</li> <li>Customer Relationship Management</li> <li>Services Marketing</li> </ul>	<b>Domain Specialization: Marketing</b> <ul style="list-style-type: none"> <li>Marketing Strategy</li> <li>Online Marketing</li> <li>Marketing of Technology Products</li> <li>International Marketing</li> <li>Media Planning</li> </ul>
<b>Domain Specialization: Operations, Project &amp; Infrastructure Management</b> <ul style="list-style-type: none"> <li>Operation Research</li> <li>Operation Planning &amp; Control</li> <li>Services Operations Management</li> <li>Supply Chain &amp; Logistics Management</li> <li>Project Procurement Management</li> <li>Project Risk Management</li> <li>Project Configuration and Change Management</li> <li>Introduction to Infrastructure Management</li> <li>Business Models in Infrastructure Management</li> </ul>	<b>Domain Specialization: Operations, Project &amp; Infrastructure Management</b> <ul style="list-style-type: none"> <li>Operations Strategy</li> <li>World Class Manufacturing Practices</li> <li>Business Process Management</li> <li>Advanced Project Management</li> <li>Project Contracts and Claims Management</li> <li>Project Portfolio and Program Management</li> <li>Global Trends in Infrastructure Management</li> <li>Infrastructure Management in Industry Sector: Energy, Transportation and Real Estate</li> </ul>
<b>Foreign Language : (Any One)</b> <ul style="list-style-type: none"> <li>Spanish</li> <li>Chinese</li> <li>German</li> </ul>	

**Note: \*All scheme curriculum as on June 2016 is updated on a year to year basis with a major re-structuring every five years.**

# MBA (Tech.)

## Computer Programming

**First Year** (Common for All Branches)

**Second Year**

Semester III	Semester IV
Data Structure & Algorithms	Computer Network
Digital Logic Design	Operating System
Computer Organization & Architecture	Analog & Digital Communication
Database Management System	Microprocessor and Microcontroller
Signals & Systems	Software Engineering
Programming Workshop	Implementation of Technology
Engineering Mathematics - III	Microeconomics
Business Communication	Statistical Methods
Contemporary Practices in Management	

**Third Year**

Semester V	Semester VI
Fundamentals of Web Technology	Introduction to Cloud Computing
Distributed Systems	Mobile Computing
Digital Signal Processing	Artificial Intelligence
Object Oriented Software Engineering	Multimedia System and Virtual Reality
Information Storage and Management	Mobile Application Development Lab
Advanced Programming Laboratory	Quality Management Systems and Practices
Macroeconomics	Project Management
Financial Accounting	Cost and Management Accounting
Information and Communication Technology Management	Project Planning and Execution
Managing Data with Spreadsheet	Innovation - I - Insights for Innovation
	Innovation - II - Thinking tools for building solutions

**Fourth Year**

Semester VII	Semester VIII
TIP (8 Weeks during summer vacation)	
System Security	
<b>Elective - I (Any One)</b>	<b>Elective - II (Any One)</b>
<ul style="list-style-type: none"> <li>Data Ware-Housing &amp; Mining</li> <li>Image Processing</li> <li>E-Commerce</li> <li>Data Science and Big Data Analytics</li> <li>Parallel Processing</li> </ul>	<ul style="list-style-type: none"> <li>Software Quality Assurance</li> <li>Soft Computing</li> <li>Service Oriented Architecture</li> <li>Biometric Applications</li> </ul>
Financial Analysis and Working Capital Management	Sustainable Business Management Practices
Legal Aspects of Business	Advanced Business Communication
Marketing Management	Human Resource Management
Management of Technology and Emerging Trends	Business Analytics
Research Methodology	Industrial Marketing
Operations Management	Financial Management
Organizational Behavior	Research Project - I
<b>Skill Enhancement Course : (Any Two)</b>	<b>Skill Enhancement Course : (Any Two)</b>
<ul style="list-style-type: none"> <li>Effective Negotiation Skills</li> <li>Programming for Analytics</li> <li>Marketing Analytics I - for Strategic Decision Making</li> <li>Introduction to Real Estate Sector</li> <li>Real Estate Laws and Regulations</li> </ul>	<ul style="list-style-type: none"> <li>Enterprise Planning Systems</li> <li>Application of Business Analytics</li> <li>Marketing Analytics II - Forecasting and New Product Analytics</li> <li>Principles of Project Construction Management</li> <li>Real Estate and Finance</li> </ul>

**Fifth Year** (Management subjects Common for all Branches)

# MBA (Tech.)

## Electronics & Telecommunication Engg.

**First Year** (Common for All Branches)

**Second Year**

Semester III	Semester IV
Engineering Mathematics - III	Probability and Random Process
Electrical Networks Analysis and Synthesis	Principles of Communication Engineering
Digital Design	Electromagnetic Field Theory
Electronic Circuit Analysis and Design	Instrumentation
Signals and Systems	Analog Integrated Circuits and Applications
Numerical Techniques	Basic Control Systems
Business Communication	Microeconomics
Contemporary Practices in Management	Statistical Methods

**Third Year**

Semester V	Semester VI
Microprocessor Based Systems	Digital Communication
Antenna and Wave Propagation	Computer Communication Networks
Fundamentals of Microwave Engineering	Microcontrollers and Embedded Systems
Digital Signal Processing	Satellite Communication and Radar
Macroeconomics	Optical Fiber Communication
Financial Accounting	Quality Management Systems and Practices
Information and Communication Technology Management	Project Management
Managing Data with Spreadsheet	Cost and Management Accounting
	Project Planning and Execution
	Innovation - I - Insights for Innovation
	Innovation - II - Thinking tools for building solutions

**Fourth Year**

Semester VII	Semester VIII
TIP (8 Weeks during summer vacation)	Network Design and Planning
Wireless Communication Technology	<b>Elective - I (Any One)</b>
Digital Voice Communication	• Introduction to Automation
Financial Analysis and Working Capital Management	• Broadband Technology
Legal Aspects of Business	• VLSI Design and Technology
Marketing Management	Sustainable Business Management Practices
Management of Technology and Emerging Trends	Advanced Business Communication
Research Methodology	Human Resource Management
Operations Management	Business Analytics
Organizational Behavior	Industrial Marketing
	Financial Management
	Research Project -I
<b>Skill Enhancement Course : (Any Two)</b>	<b>Skill Enhancement Course : (Any Two)</b>
• Effective Negotiation Skills	• Enterprise Planning Systems
• Programming for Analytics	• Application of Business Analytics
• Marketing Analytics I - for Strategic Decision Making	• Marketing Analytics II - Forecasting and New Product Analytics
• Introduction to Real Estate Sector	• Principles of Project Construction Management
• Real Estate Laws and Regulations	• Real Estate and Finance

**Fifth Year** (Management subjects Common for all Branches)



# MBA (Tech.)

## Civil Engineering

**First Year** (Common for All Branches)

**Second Year**

Semester III	Semester IV
Engineering Mathematics - III	Structural Analysis - I
Surveying - I	Surveying - II
Strength of Materials	Hydraulics Engineering
Building Materials and Construction	Building Design and Drawing - I
Fluid Mechanics	Concrete Technology
Engineering Geology	Microeconomics
Business Communication	Statistical Methods
Contemporary Practices in Management	

**Third Year**

Semester V	Semester VI
Structural Analysis - II	Geotechnical Engineering - II
Geotechnical Engineering - I	Building Utilities and Services
Hydraulic Machinery	Environmental Engineering - II
Building Design and Drawing - II	Highway and Railway Engineering
Irrigation Engineering	Design of Steel Structures
Environmental Engineering - I	Quality Management System and Practices
Macroeconomics	Project Management
Financial Accounting	Cost and Management Accounting
Information and Communication Technology Management	Project Planning and Execution
Managing Data with Spreadsheet	Innovation - I - Insights for Innovation
	Innovation - II - Thinking tools for building solutions

**Fourth Year**

Semester VII	Semester VIII
TIP (8 Weeks during summer vacation)	Quantity Surveying, Estimation and Valuation
Construction Equipment and Techniques	Limit State Design of Reinforced Concrete Structures
Theory of Reinforced Concrete and Pre-stressed Concrete	Strategic Management
Financial Analysis and Working Capital Management	Advanced Business Communication
Legal Aspects of Business	Human Resource Management
Marketing Management	Business Analytics
Management of Technology and Emerging Trends	Industrial Marketing
Research Methodology	Financial Management
Operations Management	Research Project - I
Organizational Behavior	Application of Business Analytics
<b>Skill Enhancement Course : (Any Two)</b> <ul style="list-style-type: none"> <li>Effective Negotiation Skills</li> <li>Programming for Analytics</li> <li>Marketing Analytics I - for Strategic Decision Making</li> <li>Introduction to Real Estate Sector</li> <li>Real Estate Laws and Regulations</li> </ul>	<b>Skill Enhancement Course : (Any Two)</b> <ul style="list-style-type: none"> <li>Enterprise Planning Systems</li> <li>Application of Business Analytics</li> <li>Marketing Analytics II - Forecasting and New Product Analytics</li> <li>Principles of Project Construction Management</li> <li>Real Estate and Finance</li> </ul>

**Fifth Year** (Management subjects Common for all Branches)

# MBA (Tech.)

## Mechanical Engineering

**First Year** (Common for All Branches)

**Second Year**

Semester III	Semester IV
Engineering Mathematics - III	Machine Drawing
Manufacturing Processes - I	Strength of Materials
Engineering Thermodynamics	Manufacturing Processes - II
Materials Engineering	Theory of Machines - I
Fluid Mechanics	Machine Shop-II
Machine Shop - I	Thermal Engineering
Business Communication	Statistical Methods
Contemporary Practices in Management	Microeconomics

**Third Year**

Semester V	Semester VI
Heat Transfer	I. C. Engines
Vibration Engineering	Mechanical Measurement and Metrology
Design of Machine Elements - I	CAD/CAM/CIM
Theory of Machines - II	Industrial Engineering
Fluid Machinery	Design of Machine Elements - II
Macroeconomics	Mechatronics and Controls
Financial Accounting	Quality Management Systems and Practices
Information and Communication Technology Management	Project Management
Managing Data with Spreadsheet	Cost and Management Accounting
	Project Planning and Execution
	Innovation - I - Insights for Innovation
	Innovation - II - Thinking tools for building solutions

**Fourth Year**

Semester VII	Semester VIII
TIP (8 Weeks during summer vacation)	Design of Mechanical Systems
Refrigeration and Air Conditioning	Finite Element Analysis
<b>Elective - I (Any One)</b> <ul style="list-style-type: none"> <li>Dynamic System Modeling and Analysis</li> <li>Non Conventional Energy Sources</li> <li>Advanced Turbomachinery</li> <li>Automobile Engineering</li> <li>Introduction to Nano-Technology</li> </ul>	<b>Elective - II (Any One)</b> <ul style="list-style-type: none"> <li>Tribology</li> <li>Additive Manufacturing</li> <li>Reliability Engineering</li> <li>Computational Fluid Dynamics</li> <li>Robotics</li> </ul>
Financial Analysis and Working Capital Management	Sustainable Business Management Practices
Legal Aspects of Business	Advanced Business Communication
Marketing Management	Human Resource Management
Management of Technology and Emerging Trends	Business Analytics
Research Methodology	Industrial Marketing
Operations Management	Financial Management
Organizational Behavior	Research Project -I
<b>Skill Enhancement Course : (Any Two)</b> <ul style="list-style-type: none"> <li>Effective Negotiation Skills</li> <li>Programming for Analytics</li> <li>Marketing Analytics I - for Strategic Decision Making</li> <li>Introduction to Real Estate Sector</li> <li>Real Estate Laws and Regulations</li> </ul>	<b>Skill Enhancement Course : (Any Two)</b> <ul style="list-style-type: none"> <li>Enterprise Planning Systems</li> <li>Application of Business Analytics</li> <li>Marketing Analytics II - Forecasting and New Product Analytics</li> <li>Principles of Project Construction Management</li> <li>Real Estate and Finance</li> </ul>

**Fifth Year** (Management subjects Common for all Branches)

# MBA (Tech.)

## Chemical Engineering

First Year (Common for All Branches)

### Second Year

Semester III	Semester IV
Process Calculation-I	Process Calculation-II
Fluid Mechanics-I	Fluid Mechanics-II
Strength of Material & Fabrication	Mass Transfer Operations-I
Heat Transfer Operations	Solid Fluid Mechanical Operations
Engineering Mathematics-III	Unit Processes in Chemical Industries
Chemical Engineering Thermodynamics	Material Selection
Business Communication	Microeconomics
Contemporary Practices in Management	Statistical Methods

### Third Year

Semester V	Semester VI
Chemical Processes-I	Chemical Processes-II
Reaction Kinetics	Chemical Reaction Engineering
Mass Transfer Operations II	Instrumentation & Process Control
Plant Utilities	Process Equipment & Accessories Design
Materials Selection	Industrial Safety
Macroeconomics	Quality Management Systems and Practices
Financial Accounting	Project Management
Information and Communication Technology Management	Cost and Management Accounting
Managing Data with Spreadsheet	Project Planning and Execution
	Innovation – I Insights for Innovation
	Innovation – II – Thinking tools for building solutions

### Fourth Year

Semester VII	Semester VIII
TIP (8 Weeks during summer vacation)	Process Optimization & simulation
Energy System Designs	Seminar
Environmental Engineering	Project & Process Engineering
Financial Analysis and Working Capital Management	Sustainable Business Management Practices
Legal Aspects of Business	Advanced Business Communication
Marketing Management	Human Resource Management
Management of Technology and Emerging Trends	Business Analytics
Research Methodology	Industrial Marketing
Operations Management	Financial Management
Organizational Behavior	Research Project -I
Skill Enhancement Course : (Any Two)	Skill Enhancement Course : (Any Two)
<ul style="list-style-type: none"> <li>Effective Negotiation Skills</li> <li>Programming for Analytics</li> <li>Marketing Analytics I – for Strategic Decision Making</li> <li>Introduction to Real Estate Sector</li> <li>Real Estate Laws and Regulations</li> </ul>	<ul style="list-style-type: none"> <li>Enterprise Planning Systems</li> <li>Application of Business Analytics</li> <li>Marketing Analytics II - Forecasting and New Product Analytics</li> <li>Principles of Project Construction Management</li> <li>Real Estate and Finance</li> </ul>

### Fifth Year (Management subjects Common for All Branches)

Semester IX	Semester X
Economics of Chemical Projects	Elective – I (Any One) <ul style="list-style-type: none"> <li>Food Processing</li> <li>Petroleum Refining Technology</li> <li>Biochemical Engineering</li> </ul>
Design Report I	Design Report II



# MBA (Tech.)

## Electrical Engineering

**First Year** (Common for All Branches)

**Second Year**

Semester III	Semester IV
Engineering Mathematics - III	Electrical Machines - I
Networks Analysis and Synthesis	Electromagnetic Field Theory
Energy Resources and Generation	Digital Circuits and Systems
Analog Integrated Circuits and Applications	Probability and Random Processes
Measurement and Instrumentation	Power Electronics
Numerical Techniques	Signals and Systems
Business Communication	Microeconomics
Contemporary Practices in Management	Statistical Methods

**Third Year**

Semester V	Semester VI
Control Systems - I	Control Systems - II
Microprocessor and Microcontroller	Electrical Power - I
Electrical Machines - II	Power Supply Systems
Electrical Drives	Computer Aided Machine Design
Macroeconomics	Electrical Energy Utilization
Financial Accounting	Quality Management Systems and Practices
Information and Communication Technology Management	Project Management
Managing Data with Spreadsheet	Cost and Management Accounting
	Project Planning and Execution
	Innovation - I Insights for Innovation
	Innovation - II - Thinking tools for building solutions

**Fourth Year**

Semester VII	Semester VIII
TIP (8 Weeks during summer vacation)	Power System Stability
Electrical Power - II	<b>Elective - I (Any One)</b>
Switchgear and Protection	• Power Quality
Financial Analysis and Working Capital Management	• High Voltage Engineering
Legal Aspects of Business	• Electrical Estimating and Costing
Marketing Management	Sustainable Business Management Practices
Management of Technology and Emerging Trends	Advanced Business Communication
Research Methodology	Human Resource Management
Operations Management	Business Analytics
Organizational Behavior	Industrial Marketing
	Financial Management
	Research Project - I
<b>Skill Enhancement Course : (Any Two)</b>	<b>Skill Enhancement Course : (Any Two)</b>
• Effective Negotiation Skills	• Enterprise Planning Systems
• Programming for Analytics	• Application of Business Analytics
• Marketing Analytics I - for Strategic Decision Making	• Marketing Analytics II - Forecasting and New Product Analytics
• Introduction to Real Estate Sector	• Principles of Project Construction Management
• Real Estate Laws and Regulations	• Real Estate and Finance

**Fifth Year** (Management subjects Common for all Branches)

# B.Tech.

## Bachelor of Technology

### Programme Duration & Intake

Four year Full Time B.Tech. in the following disciplines with the intake mentioned against each is offered at the Mumbai and Shirpur Campus.

Areas	Mumbai (No. of Seats)	Shirpur (No. of Seats)
Information Technology	60	60
Computer Engineering	120	60
Electronics & Telecommunication Engineering	60	60
Civil Engineering	60	60
Mechanical Engineering	60	60
Mechatronics Engineering	60	60
Electrical Engineering	60	-
Textile	-	60

### Unique features of the programme

- Modern facilities to provide ambience and support for curricular and extra curricular activities for the overall development of students.
- Dedicated, qualified faculty to ensure high standard of teaching, learning and evaluation Processes.
- Periodic review and revision of curricula based on feedback from the industry with quick response to ensure the relevance of the programmes to the changing needs of industry.
- Semester system with proper planning to utilize the resources effectively and efficiently.
- Industry visits and industry based project work as part of the curricula to provide recognition and reward to the students in the form of job offers or support for further studies and research.

### Eligibility

The candidate must have passed in 10+2 or equivalent exam including international IB Diploma (IB certificate awarded or/and DP are not eligible) with Science or Science Vocational (with PCM and English as subjects) and obtained minimum 50% marks in PCM (Minimum 150 marks out of 300) for Mumbai campus & 45% marks in PCM for Shirpur campus. Those awaiting their 10+2 exam results this year may also apply.

**Note:** For more details, please visit website: [www.nmims.edu](http://www.nmims.edu)

### Selection Procedure

Students are admitted to the B.Tech. Programme if they meet the required standards of the Selection process described below:

All eligible candidates who wish to apply for admission to the B.Tech. Programme will be required to register online at [www.nmims.edu](http://www.nmims.edu) to appear for a Entrance Test NPAT (UG) to be conducted at various locations in India.

Merit list will be prepared on the basis of the performance of the candidate in written test. Candidates will be called for counseling session at Mumbai based on the merit list. In the counseling session candidates will be given admission to various disciplines as per their merit, choice and availability of discipline as per eligibility criteria.

### Teaching, Learning And Evaluation

In most of the subjects, there will be theory and practical classes. Time table will be for approximately 32 to 36 contact hours per week for B. Tech. Programmes. In the last year of the course, approximately 40% of the time will be allotted for industry based project work for which guidance by the faculty will be available and the students will be required to make a presentation of the project work.

Student is required to have minimum of 80% attendance in the classes for every subject and must complete all the term work prescribed for the subjects.

### Course Structure

The course structures for various B.Tech. Programmes are subject to review and revision by the Board of Studies in Engineering Sciences and approval of the Academic Council of the University.

# B.Tech.

## Information Technology

### First Year (Common for All Branches)

Semester I	Semester II
Engineering Mathematics-I	Engineering Mathematics-II
Engineering Physics	Engineering Chemistry
Basic Electrical Engineering	Basic Electronics
Engineering Drawing-I	Engineering Mechanics-II
Engineering Mechanics-I	Computer Programming-II
Computer Programming-I	Workshop Practice
Communication Skills	Constitution of India

### Second Year

Semester III	Semester IV
Engineering Mathematics - III	Engineering Mathematics - IV
Environmental Studies	Computer Organization & Architecture
Data Structures and Algorithms	Microprocessor and Microcontroller
Digital Logic Design	Operating Systems
Database Management Systems	Web Programming
Programming Workshop	Implementation of Technology
Signals and Systems	Principles of Communication Engineering

### Third Year

Semester V	Semester VI
Unix Programming	Object Oriented Analysis and Design
Software Engineering	Wireless Networking
Principles of Economics and Management	Advanced Computer Networks
Computer Simulation and Modeling	Parallel Computing
Computer Networks	Mobile Application Development
Distributed Computing	Introduction to Cloud Computing
Research Methodology	
Ethics for IT Users	

### Fourth Year

Semester VII	Semester VIII
Data Warehousing and Mining	System Administration
Software Project Management	Service Oriented Architecture
Information Security	Electronic Commerce
Ethics for IT Organization	Visual Analytics
Project - I	Project - II
<b>Elective - I (Any One)</b> Management Information Systems <ul style="list-style-type: none"><li>• Multimedia Systems</li><li>• Artificial Intelligence</li><li>• Information Storage and Management</li></ul>	<b>Elective - II (Any One)</b> <ul style="list-style-type: none"><li>• Robotics</li><li>• High Speed Networking Architecture and Protocols</li><li>• Information Security Assurance and Forensics</li><li>• Advanced Database Management System</li><li>• Cloud Computing</li><li>• Human Computer Interaction</li><li>• Internet of Things</li></ul>



# B.Tech.

## Computer Engineering

**First Year** (Common for All Branches)

### Second Year

Semester III	Semester IV
Engineering Mathematics - III	Engineering Mathematics - IV
Data Structures	Computer Organization & Architecture
Discrete Structures	Operating System
Digital Logic Design	Computer Networks
Numerical Techniques	System Programming
Database Management System	Analog & Digital Communications
Programming Workshop	Environmental Studies
	Implementation of Technology
	Professional Ethics

### Third Year

Semester V	Semester VI
Theoretical Computer Science	Object Oriented Software Engineering
Software Engineering	Image Processing
Design & Analysis of Algorithms	Fundamentals of Web Technology
Computer Graphics	Industrial Economics and Management
Digital Signal Processing	Mobile Application Development
Research Methodology	Project Workshop
	<b>Elective I (Any One)</b> <ul style="list-style-type: none"><li>• Advanced Computer Networks</li><li>• Advanced Database Management System</li><li>• Unix Programming</li><li>• Information Storage and Management</li><li>• Principles of Compiler Design</li><li>• Operation Research</li><li>• Human Computer Interface</li></ul>

### Fourth Year

Semester VII	Semester VIII
Distributed Computing	System Security
Intelligent Systems	Soft Computing
Data Warehousing & Mining	Mobile Computing
Project- I	Project -II
<b>Elective II (Any One)</b> <ul style="list-style-type: none"><li>• Introduction to Cloud computing</li><li>• Embedded System</li><li>• Advanced Image Processing</li><li>• Software Architecture</li><li>• E-Commerce</li><li>• Advanced Computer Architecture</li><li>• Business Visualization</li></ul>	<b>Elective III (Any One)</b> <ul style="list-style-type: none"><li>• Robotics</li><li>• Biometrics</li><li>• Parallel Computing</li><li>• Multimedia Systems</li><li>• Software Quality Assurance &amp; Testing</li><li>• Data Science and Big Data Analytics</li><li>• Big Data with Hadoop</li></ul>

# B.Tech.

## Electronics & Telecommunication Engg.

**First Year** (Common for All Branches)

### Second Year

Semester III	Semester IV
Engineering Mathematics - III	Probability and Random Process
Electrical Networks Analysis and Synthesis	Principles of Communication Engineering
Digital Design	Electromagnetic Field Theory
Electronic Circuit Analysis and Design	Instrumentation
Signals and Systems	Analog Integrated Circuits and Applications
Numerical Techniques	Basic Control Systems
Environmental Studies	Study of Emerging Technologies

### Third Year

Semester V	Semester VI
Microprocessor Based systems	Programming in JAVA
Antenna and Wave Propagation	Computer Communication Networks
Fundamentals of Microwave Engineering	Microcontrollers and Embedded Systems
Digital Signal Processing	TV and Video Engineering
Digital Communication	Industrial Economics and Management
Implementation of Technology	RF Circuit Design
Professional Ethics	Minor Project

### Fourth Year

Semester VII	Semester VIII
Optical Fiber Communication	Digital Voice Communication
Wireless Communication Technology	Satellite Communication and Radar
Project Phase I	Project Phase II
<b>Elective - II (Any One)</b> <ul style="list-style-type: none"><li>Image Processing</li><li>Advanced Microcontrollers</li><li>Robotics</li></ul>	<b>Elective - IV (Any One)</b> <ul style="list-style-type: none"><li>Broadband Technology</li><li>Network Design and Planning</li><li>Data Encryption and Network Security</li></ul>
<b>Elective - III (Any One)</b> <ul style="list-style-type: none"><li>Introduction to Automation</li><li>Industrial Electronics and Applications</li><li>VLSI Design and Technology</li></ul>	<b>Elective - V (Any One)</b> <ul style="list-style-type: none"><li>Speech Processing</li><li>Fuzzy Logic and Neural Networks</li><li>Mobile Computing</li></ul>

# B.Tech.

## Civil Engineering

**First Year** (Common for All Branches)

**Second Year**

Semester III	Semester IV
Engineering Mathematics-III	Engineering Mathematics-IV
Surveying - I	Surveying - II
Strength of Materials	Structural Analysis - I
Building Materials and Construction	Concrete Technology
Engineering Geology	Hydraulics Engineering
Fluid Mechanics	Building Design and Drawing - I
	Safety Health and Environmental Engineering

**Third Year**

Semester V	Semester VI
Structural Analysis - II	Geotechnical Engineering - II
Geotechnical Engineering - I	Theory of Reinforced Concrete and Pre-stressed Concrete
Building Design and Drawing - II	Irrigation Engineering
Hydraulic Machinery	Environmental Engineering - II
Highway and Railway Engineering	Design of Steel Structures
Environmental Engineering - I	Transportation Engineering
Building Utilities and Services	Presentation and Communication Techniques
Entrepreneurship and Management	

**Fourth Year**

Semester VII	Semester VIII
Limit State Design of Reinforced Concrete Structures	Advanced Design of Concrete Structures
Quantity Surveying, Estimation and Valuation	Construction Project Management and Finance
Construction Equipment and Techniques	
Project - I	Project - II
Elective - I	Elective- III
Elective - II	Elective - IV
<b>List of Electives (Any One from Each list)</b> <b>Elective - I</b> <ul style="list-style-type: none"> <li>Advanced Structural Analysis</li> <li>Advanced structural Mechanics</li> <li>Analysis of Transportation System</li> <li>Water Distribution System</li> <li>Finite Element Analysis in Civil Engineering</li> <li>Soil Dynamics</li> </ul>	<b>Elective - III</b> <ul style="list-style-type: none"> <li>Structural Dynamics</li> <li>Earthquake Engineering</li> <li>Rock Mechanics</li> <li>Design of Hydraulic Structures</li> <li>Numerical Modeling of Groundwater Flow and Transport</li> <li>Traffic Analysis and Design</li> </ul>
<b>Elective - II</b> <ul style="list-style-type: none"> <li>Pavement Subgrade Materials</li> <li>Urban Transportation Systems Planning</li> <li>Planning and Design of Environmental Facilities</li> <li>Air Quality Management and Metrology</li> <li>Construction Economics and Finance Management</li> <li>Construction Safety</li> <li>Green and Intelligent Buildings</li> </ul>	<b>Elective - IV</b> <ul style="list-style-type: none"> <li>Pavement Design and Construction</li> <li>GIS and Remote Sensing</li> <li>Industrial Waste Treatment</li> <li>Environmental Impact Assessment and Audit</li> <li>Construction Quality Control and Assurance</li> <li>Construction Contracts and Administration</li> <li>Smart Cities : Planning and Technology</li> </ul>



# B.Tech.

## Mechanical Engineering

**First Year** (Common for All Branches)

### Second Year

Semester III	Semester IV
Engineering Mathematics - III	Engineering Mathematics - IV
Engineering Thermodynamics	Machine Drawing
Strength of Materials	Fluid Machinery
Fluid Mechanics	Materials Engineering
Theory of Machines - I	Environmental Engineering and Management Systems
Manufacturing Processes - I	Theory of Machines - II
Machine Shop - I	Industrial Electronics

### Third Year

Semester V	Semester VI
Thermal Engineering	Heat Transfer
Manufacturing Processes - II	I. C. Engines
Design of Machine Elements - I	Design of Machine Elements - II
Mechatronics and Controls	Vibration Engineering
Mechanical Measurement and Metrology	Manufacturing Management
Machine Shop - II	Presentation and Communication Techniques
Industrial Engineering	

### Fourth Year

Semester VII	Semester VIII
Design of Mechanical Systems	Total Quality Management
Refrigeration and Air Conditioning	Product Design and Development
Finite Element Analysis	CAD/CAM/CIM
Project Part - I	Engineering Economics and Accounting
	Project Part - II
<b>Elective I (Any One)</b> <ul style="list-style-type: none"><li>• Tribology</li><li>• Non Conventional Energy Sources</li><li>• Advanced Turbo machinery</li><li>• Automobile Engineering</li><li>• Introduction to Nano-Technology</li><li>• Project Management</li></ul>	<b>Elective II (Any One)</b> <ul style="list-style-type: none"><li>• Dynamic System Modeling and Analysis</li><li>• Additive Manufacturing</li><li>• Reliability Engineering</li><li>• Computational Fluid Dynamics</li><li>• Robotics</li><li>• Operations Research</li></ul>

# B.Tech.

## Mechatronics Engineering

**First Year** (Common for All Branches)

**Second Year**

Semester III	Semester IV
Engineering Mathematics III	Engineering Mathematics IV
Strength of Materials	Signals and Systems
Fluid Mechanics and Machinery	Theory of Machines II
Digital Electronics	Thermodynamics and Heat Transfer
Theory of Machines I	Manufacturing Processes
Electronic Devices and Circuits	Microprocessors and Interfacing
	Electro Mechanical Workshop

**Third Year**

Semester V	Semester VI
Design of Machine Elements	Hydraulic and Pneumatic Systems
Linear Integrated Circuits and Applications	Presentation and Communication Techniques
Modelling and Simulation	PLC and Data Acquisition
Instrumentation	Object Oriented Programming
Industrial Electronics	Industrial Drives
Basic Control Systems	CAD/CAM/CIM

**Fourth Year**

Semester VII	Semester VIII
Mechatronics System Design	Industrial Robotics
Industrial Engineering	Product Design and Development
Project Phase I	Project Phase II
<b>Elective I (Any One)</b> Dynamic System Modelling and Analysis Flexible Manufacturing Systems Automobile Engineering	<b>Elective III (Any One)</b> Project Management Additive Manufacturing Reliability Engineering
<b>Elective II (Any One)</b> Digital Signal Processing Microcontroller and Embedded Systems Microelectromechanical Systems (MEMs)	<b>Elective IV (Any One)</b> Virtual Instrumentation Automotive Electronics Artificial Intelligence

# B.Tech.

## Electrical Engineering

**First Year** (Common for All Branches)

### Second Year

Semester III	Semester IV
Engineering Mathematics - III	Engineering Mathematics - IV
Network Analysis and Synthesis	Electrical Machines - I
Energy Resources and Generation	Electromagnetic Field Theory
Analog Integrated Circuits and Applications	Digital Circuits and Systems
Measurement and Instrumentation	Power Electronics
Simulation of Electrical Circuits	Signals and Systems
Environmental Studies	Numerical Techniques

### Third Year

Semester V	Semester VI
Control Systems - I	Control Systems - II
Microprocessor & Microcontroller	Electrical Power - I
Electrical Machines - II	Power Supply Systems
Optimization Techniques	Computer Aided Machine Design
Electrical Drives	Electrical Energy Utilization
Implementation of Technology	Industrial Economics and Management
Professional Ethics	Minor Project

### Fourth Year

Semester VII	Semester VIII
Renewable Energy	Power System Stability
Power System Operation and Control	High Voltage Engineering
Electrical Power - II	Power Quality
Switchgear and Protection	Project Phase II
Project Phase I	
<b>Elective I (Any One)</b> <ul style="list-style-type: none"><li>• Process Control System</li><li>• Digital Signal Processing</li><li>• Computer Methods in Power System Analysis</li><li>• Energy Audit</li></ul>	<b>Elective II (Any One)</b> <ul style="list-style-type: none"><li>• Embedded Systems</li><li>• Generalised Machine Theory</li><li>• Electrical Estimating and Costing</li><li>• System Engineering</li></ul>

# B.Tech (Integrated) Program

## B.Tech. (6 Years Integrated Diploma & Degree Program)

MPSTME is initiating a unique six year B.Tech. Program for 10+ students from the academic year 2014-15. The program is being initialized with industry and academia inputs. It has been found from the inputs that 80-90 % students after their diploma opt for degree programs to enhance their career prospects. When they do take admission for degree programs, there is a lot of overlap in the technical content while the lateral entry students lack in mathematics foundation. This program will bridge the shortcomings and prepare the students for a career in the industry.

### Program Duration

Six year full time B.Tech. (Integrated Diploma & Degree program) offered at Mumbai Campus.

### Intake

Areas	No. of Seats
Computer Engineering	120
Electronics & Telecommunication Engineering	60
Civil Engineering	60
Mechanical Engineering	60

### Unique Features of the Program

- Six year Integrated Diploma & Degree program
- Degree in Civil, Computer, Electronics and Telecommunications, and Mechanical Engineering with opportunity to pursue B. Tech. in Mechatronics for meritorious students.
- Well-knit curricula eliminating overlap and enhancing mathematics component lacking in diploma students
- Curriculum co-designed with active industry and professional bodies participation
- Different modes of delivery like on line learning, experiential learning, summer courses etc.
- State of the Art laboratories and classroom facilities
- Highly qualified and Competent faculty involved in teaching as well a research
- One year industry internship enabling students to relate theory to practice
- Imparting and inculcating soft as well as life skills

### Eligibility Criteria

Eligibility criteria Candidate must have passed the SSC (Std.X) examination or its equivalent, with subjects Maths/Mathematics, General Science and English, with 60% aggregate marks.

The term 'aggregate marks' used here shall mean as follows:

#### A. For Maharashtra State Board Candidates:

- (I) The candidates who have passed SSC Examination, the aggregate marks shall be total marks of 5 subjects taken into consideration and mentioned on the Mark sheet. (II) Candidates who have passed Maths/Mathematics (Code 71 for Maharashtra State Board Candidates) and Science & Technology (Code 72 for Maharashtra State Board candidates) are only eligible for admission.

#### B. For ICSE Candidates:

- a. Student seeking admission on the basis of Group 1 & Group 2 subjects only, the aggregate marks shall be the grand total of marks in any of the 5 subjects from Group 1 & Group 2 where he/she has scored maximum marks.
- b. Student seeking admission on the basis of Group 1, Group 2 & Group 3, aggregate marks shall be the grand total of all subjects from all groups.



### C. For CBSE Candidates:

The aggregate mark means the grand total of marks obtained by the candidate, including all subjects as declared on Mark sheet. Page 2 of 4.

- Only single marksheet with all compulsory subjects taken and passed in first attempt is mandatory, no compartmentalized marksheet will be considered.
- Those candidates who have passed, or, are appearing for 10th examination from a Board/University where Grade Point Average is given, such candidates must produce in writing from the Board/University concerned, the equivalent percentage for the GPA obtained.
- Candidate above 20 years of age are not eligible to apply.
- Candidates passing 10th or equivalent examination from Open or Distance learning (ODL) school recognized only by National Institute of Open schooling (NIOS) can apply for the program subject to fulfilling the eligibility of the program & candidates who have passed the 10th or equivalent examination by doing part-time course or through distance learning / correspondence / externally / open school other than NIOS are not eligible to apply for the courses.

Candidate whose final mark sheet is not available at the time of admission are required to submit internet copy of result duly attested by Principal of the school/college, failing which candidate will not be admitted.

### Selection Procedure

- Merit list will be prepared on the basis of the performance of the candidate in 10th or equivalent exam.
- Candidates will be called for counseling session at Mumbai based on the merit list.
- In the counseling session candidates will be given admission to various disciplines as per their merit, choice and availability of discipline as per eligibility criteria.
- The decision of the institute will be final in this regard and no inquiries or correspondence in this regard will be entertained.

### Teaching, Learning and Evaluation

Curriculum for the program includes adequate balance of fundamental / foundation, core and elective courses. The courses are based on a credit structure with 22-26 credit per semester totaling to around 220 credits over for the entire B Tech Program. Every course is assigned lectures, practical and tutorials as per requirement. Students also undergo technical entrepreneurship and project in the 6th year. The program course content is reviewed every year with industry inputs and participation.

The school encourages students to learn through experiential mode along with class room delivery. The delivery is very actively supported by Black Board Learning Management System (BBLMS). The BBLMS facilitates learning beyond classroom through YouTube and other online content available on the net. Through this innovative teaching and learning process, students have ample opportunity to learn through different modes. The curriculum also emphasizes on continuous self-learning.

Evaluation is based on continuous assessment throughout semester with appropriate weightage for in semester work, as well as end semester exams. Different modes of evaluation like open book exam, quiz and viva are available for the faculty to ensure attainment of course and program out-comes as defined above.

### Course Structure

The Course structure for B.Tech (Integrated) program is subject to review and revision by the Board of Studies in Engineering Sciences and approval of the Academic Council of the University.

# B.Tech. (Integrated)

## Computer Engineering

### First Year (Common for All Branches)

Semester I	Semester II
Communication Skills	Mathematics - II
Mathematics - I	Physics-II
Physics-I	Chemistry-II
Chemistry-I	Workshop Practice- II
Basics of Computer System	Computer Programming - I
Engineering Drawing-I	Engineering Drawing-II
Workshop Practice-I	Fundamentals of Engineering Mechanics
	Elements of Electrical Engineering

### Second Year

Semester III	Semester IV
Engineering Mathematics-I	Engineering Mathematics-II
Engineering Chemistry	Engineering Physics
Constitution of India	Numerical Techniques
Computer Programming-II	Computer Programming-III (Java)
Electronic Materials and Components	Basic Electronics
Environmental Studies	Data Structures

### Third Year

Semester V	Semester VI
Engineering Mathematics-III	Engineering Mathematics-IV
Discrete Structures	Microprocessor
Database Management System	System Programming
Digital Logic Design & Analysis	Computer Organisation & Architecture
Design & Analysis of Algorithms	Computer Networks
Fundamentals of Web Technology	Implementation of Technology

#### Fourth Year

Semester VII	Semester VIII
Theoretical Computer Science	Object Oriented Software Engineering
Software Engineering	Biometrics
Operating System	Industrial Economics & Management
Image Processing	Project Management
Research Methodology	Computer Graphics
Professional Ethics	Mobile Application Development
	Project Workshop
<b>Elective-I (Any One)</b> <ul style="list-style-type: none"> <li>• Advanced Computer Networks</li> <li>• Advanced Database Management System</li> <li>• Unix Programming</li> <li>• Information Storage &amp; Management</li> <li>• Operation Research</li> </ul>	<b>Elective-II (Any One)</b> <ul style="list-style-type: none"> <li>• Introduction to Cloud Computing</li> <li>• Embedded System</li> <li>• Advanced Image Processing</li> <li>• Software Architecture</li> <li>• Advanced Computer Architecture</li> </ul>

#### Fifth Year

Semester IX	Semester X
System Security	Distributed Computing
Intelligent System	Mobile Computing
Data Warehousing & Mining	Business Intelligence & Data Analytics
Project - I	Project - II
<b>Elective-III (Any One)</b> <ul style="list-style-type: none"> <li>• Robotics</li> <li>• Parallel Computing</li> <li>• Soft Computing</li> <li>• Software Quality Assurance &amp; Testing</li> <li>• Data Science and Big Data Analytics</li> </ul>	<b>Elective-IV (Any One)</b> <ul style="list-style-type: none"> <li>• E- Commerce</li> <li>• Principles of Compiler Design</li> <li>• Human Computer Interface</li> </ul>

Sixth year of the programme is for the Industry Internship.

# B.Tech. (Integrated)

## Electronics and Telecommunication Engineering

**First Year** (Common for All Branches)

### Second Year

Semester III	Semester IV
Engineering Mathematics-I	Engineering Mathematics-II
Engineering Chemistry	Engineering Physics
Constitution of India	Numerical Techniques
Computer Programming -II	Digital Logic and Design
Electrical Technology	Basic Electronics
Electronic Materials and Components	Environmental Studies

### Third Year

Semester V	Semester VI
Engineering Mathematics-III	Engineering Mathematics-IV
Electrical Networks Analysis and Synthesis	Probability and Random Processes
Electromagnetic Field Theory	Basic Control System
Advanced Electronics	Electrical and Electronic Instrumentation
Principles of Communication Engineering	Analog Integrated Circuits and Applications
Signals and Systems	Electronic Circuit Design
	Study of Emerging Technologies

### Fourth Year

Semester VII	Semester VIII
Microprocessor Based systems	Programming in JAVA
Antenna and Wave Propagation	Computer communication Networks
Fundamentals of Microwave Engineering	Microcontrollers & Embedded Systems
Digital Signal Processing	TV and Video Engineering
Digital Communication	Industrial Economics & Management
Implementing of Technology	RF Circuit Design
Professional Ethics	Minor project

### Fifth Year

Semester IX	Semester X
Optical Fiber Communication	Digital Voice Communication
Wireless Communication Technology	Satellite Communication and Radar
Project Phase I	Project Phase II
<b>Elective I (Any One)</b> <ul style="list-style-type: none"><li>Image Processing</li><li>Advanced Microcontroller</li><li>Robotics</li></ul>	<b>Elective III (Any One)</b> <ul style="list-style-type: none"><li>Broadband Technology</li><li>Network Design and Planning</li><li>Data Encryption and Network Security</li></ul>
<b>Elective II (Any One)</b> <ul style="list-style-type: none"><li>Introduction to Automation</li><li>Industrial Electronics and Applications</li><li>VLSI Design and Technology</li></ul>	<b>Elective IV (Any One)</b> <ul style="list-style-type: none"><li>Speech Processing</li><li>Fuzzy Logic and Neural Networks</li><li>Mobile Computing</li></ul>

**Sixth year of the programme is for the Industry Internship.**



# B.Tech. (Integrated)

## Civil Engineering

**First Year** (Common for All Branches)

### Second Year

Semester III	Semester IV
Engineering Mathematics-I	Engineering Mathematics-II
Engineering Chemistry	Engineering Physics
Constitution of India	Numerical Techniques
Engineering Mechanics	Strength of Materials
Construction Materials	Surveying - I
Construction Engineering	Engineering Geology

### Third Year

Semester V	Semester VI
Engineering Mathematics-III	Engineering Mathematics-IV
Surveying - II	Geotechnical Engineering - I
Fluid Mechanics - I	Fluid Mechanics - II
Concrete Technology	Construction Equipment and Techniques
Building Design and Drawing - I	Building Design and Drawing - II
Fundamentals of Structural Analysis	Structural Analysis - I
Hydraulic Engineering	Entrepreneurship and Management
Presentation and Communication Techniques	

### Fourth Year

Semester VII	Semester VIII
Hydraulic Engineering	Environmental Engineering - I
Geotechnical Engineering - II	Design of Steel Structures
Transportation Engineering - I	Hydraulic Machinery
Theory of Reinforced Concrete and Prestressed Concrete	Transportation Engineering - II
Structural Analysis - II	Building Utilities and Services
Advanced Construction Techniques	Irrigation Engineering
Computer Aided Drafting	Engineering Economics

### Fifth Year

Semester IX	Semester X
Limit State Design of Reinforced Concrete Structures	Advanced Design of Concrete Structures
Environmental Engineering - II	Construction Project Management and Finance
Quantity Surveying, Estimation and Valuation	Project - II
Project - I	Elective - III
Elective - I	Elective - IV
Elective - II	
<b>Elective - I (Any One)</b> <ul style="list-style-type: none"><li>Advanced Structural Analysis</li><li>Advanced Structural Mechanics</li><li>Soil Dynamics</li><li>Water Distribution Systems</li><li>Finite Element Analysis in Civil Engineering</li><li>Analysis of Transportation System</li></ul>	<b>Elective - III (Any One)</b> <ul style="list-style-type: none"><li>Structural Dynamics</li><li>Earthquake Engineering</li><li>Rock Mechanics</li><li>Design of Hydraulic Structures</li><li>Numerical Modelling of Groundwater Flow and Transport</li><li>Traffic Analysis and Design</li></ul>
<b>Elective - II (Any One)</b> <ul style="list-style-type: none"><li>Pavement Subgrade Materials</li><li>Urban Transportation Systems Planning</li><li>Planning and Design of Environmental Facilities</li><li>Air Quality Management</li><li>Green and Intelligent Buildings</li><li>Construction Safety</li><li>Construction Economics and Finance Management</li></ul>	<b>Elective - IV (Any One)</b> <ul style="list-style-type: none"><li>Pavement Design and Construction</li><li>GIS and Remote Sensing</li><li>Industrial Waste Treatment</li><li>Environmental Impact Assessment and Audit</li><li>Construction Quality Control and Assurance</li><li>Construction Contracts and Administration</li><li>Smart Cities: Planning and Technology</li></ul>

**Sixth year of the programme is for the Industry Internship.**

# B.Tech. (Integrated)

## Mechanical Engineering

**First Year** (Common for All Branches)

### Second Year

Semester III	Semester IV
Engineering Mathematics-I	Engineering Mathematics-II
Engineering Chemistry	Engineering Physics
Constitution of India	Numerical Techniques
Engineering Mechanics	Manufacturing Processes-II
Manufacturing Processes-I	Machine Drawing and Computer Graphics
Engineering Thermodynamics	Strength of Materials
Machine Shop - I	Machine Shop - II

### Third Year

Semester V	Semester VI
Engineering Mathematics-III	Engineering Mathematics-IV
Theory of Machines-I	Theory of Machines - II
Industrial Electronics	Mechanical Measurement and Metrology
Materials Engineering	Fluid Machinery
Fluid Mechanics	Thermal Engineering
Presentation and Communication Techniques	Environmental Engineering and Management Systems

### Fourth Year

Semester VII	Semester VIII
Heat Transfer	I. C. Engines
Fluid Machinery	Presentation and Communication Techniques
Design of Machine Elements - I	CAD/CAM/CIM
Industrial Engineering	Design of Machine Element - II
Vibration Engineering	Manufacturing Management
Theory of Machines - III	Mechatronics and Controls

### Fifth Year

Semester IX	Semester X
Refrigeration and Air Conditioning	Production Design & Development
Finite Element Method	Project Part II
Project Part I	Elective II
Elective I	Total Quality Management
Design of Mechanics Systems <b>Elective I (Any One)</b> <ul style="list-style-type: none"><li>• Tribology</li><li>• Non Conventional Energy Sources</li><li>• Advanced Turbomachinery</li><li>• Automobile Engineering</li><li>• Introduction to Nano-Technology Project Management</li></ul>	Engineering Economics & Accounting <b>Elective II (Any One)</b> <ul style="list-style-type: none"><li>• Dynamic System Modeling and Analysis</li><li>• Additive Manufacturing</li><li>• Reliability Engineering</li><li>• Computational Fluid Dynamics</li><li>• Robotics</li><li>• Operations Research</li></ul>

**Sixth year of the programme is for the Industry Internship.**

## Master in Computer Applications

### Programme Duration & Intake

To meet the increasing demand of trained manpower in the field of Computer Applications, NMIMS University has started a 3 years Post Graduate MCA Programme with an intake of 60 seats at Mumbai campus under its Mukesh Patel School of Technology Management & Engineering.

### Eligibility

The candidate must have Bachelor's degree with 50% marks in aggregate in Arts, Science, Commerce, Management or any other discipline from a recognized institution / university. Those awaiting their final exam results may also apply.

### Selection Procedure

Interested candidates need to register online in the prescribed application form. Admission will be based on Written Test followed by Personal Interview at the NMIMS premises in Mumbai. Merit list will be prepared on the basis of written test & personal interview score.

Candidates appearing for final year will be admitted on submission of final year marksheets. Final admission will be granted to those who are eligible.

### Course Structure

The Course Structure for MCA Programme is given on subsequent pages subject to review and revision by the Board of Studies and approval of the Academic Council of the University.

### Teaching-learning and Evaluation

It is a full time programme and timetable will be for approx. 32 to 36 contact hours per week. In the final year of the course, approx. 80% of the time will be allocated to industry based project work for which guidance of the faculty will be available.

Student is required to have minimum 80% attendance in the classes for every subject and must complete all the term work prescribed for the subject.

The scheme of evaluation will contain theory and practical examination as well as term work and periodical, class tests, assignments etc. For passing the subject, student must obtain a minimum of 50% marks in each of the subject.

The class will be awarded at the end of every year on the basis of total marks or Grade Point Average obtained by the student subject to earning prescribed minimum credits during the year.

The class for final degree will be awarded on the basis of cumulative performance during all the years for MCA Courses.

### Board of Studies

The Board of Studies for MCA will be the same as the Board of Studies for Engineering Sciences as shown earlier.

## Master in Computer Applications

### First Year

Semester I	Semester II
Computer Programming	Core Java
Computer Organization and Architecture	Operating System
Discrete Mathematics	Software Engineering
Database Management Systems	Design and Analysis of Algorithms
Computer Networks	Numerical and Statistical Methods
Communication Skills	Financial Accounting

### Second Year

Semester III	Semester IV
Web Programming I	Web Programming II
Advanced Java	Data Warehousing and Mining
Advanced Database Management System	Operation Research
Object Oriented Software Engineering	Organizational Behavior
Mobile Computing	Project Management
Industrial Economics and Management	<b>Elective I (Any One)</b> <ul style="list-style-type: none"> <li>Parallel Computing</li> <li>Software Testing</li> <li>Information Storage and Management</li> <li>Unix Programming</li> <li>Cyber Security</li> </ul>

### Third Year

Semester V	Semester VI
Electronic Commerce	Industry Internship and Project
Distributed Computing	
Big Data with Hadoop	
Service Oriented Architecture	
Mobile Application Development	
Programming Workshop	
<b>Elective II (Any One)</b> <ul style="list-style-type: none"> <li>Introduction to Cloud Computing</li> <li>Multimedia Systems</li> <li>Image Processing</li> <li>Human Computer Interaction</li> </ul>	



## Master in Technology

### Programmes

**Mumbai:** Computer Engineering, Electronics & Telecommunication Engineering, Industrial Automation and Data Science (Business Analytics).

**Shirpur:** Mechanical Engineering.

The courses have been tailored by leading academicians and experts from the industries. Emphasis has been given to the latest development in industry wherein expertise is required. Steps have been taken to further strengthen the present system in the country while framing the syllabus.

### Programme Objectives

- To provide excellent education and guidance in engineering branches at postgraduate and research level.
- To cater the needs of engineering industries and research organizations at national and international levels.
- To train HR to carry out innovative research for creating intellectual property through master and doctoral programmes.
- To prepare engineers to take position in industry, institutions and research organizations.

### Duration

The course of study of M.Tech. in each specialization shall extend over two years consisting of two semesters for the first year and then carry out research work on industry related project followed by submission of dissertation in the second year.

### Intake

18 seats in each specialization of M. Tech. Programmes.

### Eligibility

Every candidate for the M. Tech. programme in each specialization must have passed B.E. / B. Tech. or equivalent examination with 50% marks in aggregate with valid GATE score; sponsored candidates without GATE score will also be considered.

### Selection Procedure

Candidates will be admitted to M.Tech. in the area of interest as mentioned in their application form, if they meet the required standards of the two stage processes described below:

**Stage 1:** All candidates aspiring to and eligible for admissions to M. Tech. Programmes in each specialization shall be short-listed based on their valid GATE score, for a personal interview at NMIMS campus. Sponsored candidates shall be short listed on the basis of their B.E. / B.Tech. Degree score.

**Stage 2:** Personal Interview - Candidates short listed in stage 1 shall be interviewed at the institute premises and the merit list will be prepared accordingly. Candidates will be allotted admissions to the discipline as per the availability/ choice as the case may be.

# M.Tech.

## Computer Engineering

### First Year

Semester I	Semester II
Advanced Image Processing	Distributed Systems
Data Warehousing & Mining	Biometrics
Artificial Intelligence	System & Network Security
Seminar & Professional Skills Development	Research Methodology
Programming for Analytics	Predictive Modeling
	M. Tech Project Synopsis
<b>Elective - I (Any One)</b> <ul style="list-style-type: none"> <li>• Mobile Computing &amp; Wireless Networking</li> <li>• Computer Networking and Design Principles</li> <li>• Software Architecture</li> <li>• Advanced Algorithms</li> </ul>	<b>Elective - II (Any One)</b> <ul style="list-style-type: none"> <li>• Software Quality Assurance &amp; testing</li> <li>• IP Traffic Engineering</li> <li>• Fuzzy Logic &amp; Neural Network</li> <li>• Advanced Optimization Techniques</li> </ul>

### Second Year

Semester III	Semester IV
Project - Phase I	Project - Phase II

# M.Tech.

## Electronics & Telecommunication Engineering

### First Year

Semester I	Semester II
Advanced Digital Communication	Advanced DSP
Advanced Microwave Engineering	Advanced Communication Networks
Statistical Signal Analysis	Optical Fiber Communication Networks
Professional Skill Development	Review and Implementation of Technology
	Research Methodology
<b>Elective - I (Any One)</b> <ul style="list-style-type: none"> <li>• Advanced VLSI System Design</li> <li>• Information Theory and Coding</li> <li>• Applied Satellite Communication</li> </ul> <b>Elective - II (Any One)</b> <ul style="list-style-type: none"> <li>• Telecom Network Management</li> <li>• Embedded System Design</li> <li>• Antenna System Design</li> </ul>	<b>Elective - III (Any One)</b> <ul style="list-style-type: none"> <li>• Electronics in Defence Systems</li> <li>• Wireless Communication and Networks</li> <li>• Advanced Image Processing</li> </ul>

### Second Year

Semester III	Semester IV
Project - Phase I	Project - Phase II

## Industrial Automation

### First Year

Semester I	Semester II
Mechatronic Systems Design	Industrial Robotics
Fluid Power Automation	Artificial Intelligence & Expert System in Automation
Industrial Drives and Control Systems	Design Aspects of Industrial Automation
Automation in Manufacturing Systems	Sensors in Manufacturing
Professional Skill Development	Research Methodology
<b>Elective - I (Any One)</b> <ul style="list-style-type: none"> <li>Advanced Microcontroller</li> <li>Product Design &amp; Development</li> <li>CNC Technology</li> </ul>	<b>Elective - II (Any One)</b> <ul style="list-style-type: none"> <li>Advanced Embedded Systems</li> <li>Flexible Manufacturing Systems</li> <li>Advances in Design and Manufacturing</li> </ul>

### Second Year

Semester III	Semester IV
Project - Phase I	Project - Phase II

## Mechanical Engineering

### First Year

Semester I	Semester II
Numerical Techniques	Finite Element Methods and Applications
Dynamic System Modeling and Analysis	Optimization Techniques
Professional Skill Development	Research Methodology
<b>Elective I</b>	<b>Elective IV</b>
<b>Elective II</b>	<b>Elective V</b>
<b>Elective III</b>	<b>Elective VI</b>

### Second Year

Semester III	Semester IV
Project - Phase I	Project - Phase II

**Note:** If a student selects group A then all the electives have to be selected from group A only

### List of the Electives

Group A	
Sem I	Theory of Elasticity and Plasticity
Sem I	Fracture and Failure Analysis
Sem I	Mechanical Design Analysis
Sem I	Machine Dynamics and Vibration
Sem II	Reliability Engineering
Sem II	Design for Manufacturing and Assembly
Sem II	Advance Tribology
Sem II	Design of Material Handling Equipments
Sem II	Design of Pumps and Compressors

Group B	
Sem I	Advanced Thermodynamics
Sem I	Advanced Heat Transfer
Sem I	Refrigeration and Air Conditioning Technologies
Sem I	Computational Fluid Dynamics
Sem II	Analysis of Turbo Machinery
Sem II	Analysis and Design of I. C. Engine
Sem II	Non Conventional Energy Systems
Sem II	Design of Pumps and Compressors

Group C	
Sem I	Supply Chain Management
Sem I	Computer Integrated Manufacturing
Sem I	Analysis of Machining and Forming Processes
Sem I	Product Life Cycle Management
Sem II	Design for Manufacturing and Assembly
Sem II	Theory of Metal Cutting
Sem II	Production Planning and Control
Sem II	Theory of Experiments
Sem II	Reliability Engineering

# M.Tech.

## Data Science (Business Analytics)

### Programmes

M.Tech in Data Science (Business Analytics).

### Eligibility Criteria

Candidate must have minimum aggregate 60% marks or CGPA > 3.0 out of 4 in B. Tech. /B.E (all streams) or M.Sc: Maths, Statistics, Computer Sciences, IT, Electronics or MCA or AMIE or Any other equivalent UGC approved qualification for M.Tech.

### Note:

- Candidates appearing for final year are eligible to apply.
- Candidates who have cleared their graduation by doing a part-time course or through distance learning, correspondence courses, externally, open school from recognized University are eligible to apply & register as per UGC guidelines.

### Duration

2 Years Full-time

### Intake

25 seats

### Selection Procedure

Personal Interview

Merit list will be prepared based on performance of candidate in Personal Interview



# M.Tech.

## Data Science (Business Analytics)

### First Year

Semester I	Semester II
Data Gathering, Cleaning (ELT Process)	Big Data Technology (Computational Technique for Large Scale data analytics)
Data Science – 1 (Probability and Statistics)	Data Science – II (Advanced Statistical Learning)
R/R-Studio, SPSS and Tableau Programming	Machine Learning and Data Mining
SAS Programming	Visual Analytics
Research Project – I	<b>Elective (Any One)</b> <ul style="list-style-type: none"><li>• Neural Network</li><li>• Marketing Analytics</li><li>• Operation and Supply Chain Analytics</li><li>• Cyber Security</li><li>• Web Analytics</li><li>• Finance Analytics</li></ul>
Financial Institutions & Markets	
Marketing Analytics for Strategic Decision	

### Second Year

Semester III	Semester IV
Project - Phase I	Project - Phase II

# Post Graduate Diploma in Management

## Real Estate Construction & Management

The Real Estate sector has undergone transformation in the last two decades. The land bank in the cities is shrinking. At the same time the flow of opportunity seekers towards cities continues. The demand has seen consistent growth while the supply at an affordable cost, has remained a challenge. Along with these factors, regulations regarding land zoning, maze of approvals, scarcity of natural resources and several other factors have posed immense challenges to the growth of real estate sector.

The Indian real estate market is set to take rapid strides with a number of housing schemes being announced by the Government. The new regulations and incentive schemes are surely leading to a matured real estate market. International broking and finance firms are turning their attention to this sector. Considering the anticipated growth of the sector, there is going to be a huge requirement of individuals having good knowledge of various aspects of real estate sector.

The two year Post Graduate Diploma in Real Estate Construction and Management (RECM) being conducted at Mukesh Patel School of Technology Management & Engineering (MPSTME), is a six trimester program covering all aspects related to Real Estate Construction and Management ranging from conceiving a project, initiation, basics of construction processes, legal aspects, financing, marketing, managing approvals etc. At the end of the program students will possess knowledge in all facets of Real Estate thereby enabling them to conduct their business more efficiently and professionally.

### Some of the salient features of the program:

- Blend of contact and non-contact learning. Contact is over week end, while the off-line delivery continues through the week at respective workplace or in organization where internship would be facilitated.
- Global and national exposure of the real estate sector through domestic and international visits to ensure that the learning is globally relevant.
- Program developed with support from major Real Estate Organizations such as :  
- JLL - ACME Housing - HDFC - Builders' Association of India - MCHI – CREDAI - Hub-Town Ltd. - PEATA

### Eligibility

- Candidate must have a Bachelors' Degree in any discipline.
- Candidates who have cleared their graduation from a recognized University are eligible to apply.
- Candidates who have cleared their graduation by doing a part-time course or through distance learning, correspondence courses, externally, open school from recognized University are eligible to apply & register as per UGC guidelines.
- Candidates who have appeared for their final year degree examination can also apply, however their admission will be provisional and will be confirmed only after producing the results.

### Duration

2 Years Full-time

### Intake

30 per batch

### First Year

Semester I	Semester II	Semester III
Urban Development	Project Delivery Process in Real Estate	Construction Law
Introduction to Real Estate	Building Byelaws & Statutory Approvals	Property Documentation
Construction Materials	Building Planning & Design	Modern Construction Techniques
Building Construction	Construction Safety	Total Quality Management
Principles of Management	Economics of Housing	Sustainable Development
Material Testing – Workshop I	Field Visits and Report I	Seminar

### Second Year

Semester IV	Semester V	Semester VI
Building Services	Principles of Valuation in Real Estate	HRD & Professional Ethics
Accounting and Taxation	Marketing Management	Construction Logistics
Legal Aspects of Construction	Material Management	Project Closure
Entrepreneurship Development	Project Management	<b>Elective – 1 (any one)</b> <ul style="list-style-type: none"> <li>• Capital Markets &amp; Real Estate</li> <li>• Value Management</li> </ul>
Quantity Surveying and Estimation	Financial Management	
Material Testing – Workshop II	Field Visit and Report II	<b>Elective – 2 (any one)</b> <ul style="list-style-type: none"> <li>• Facilities Management</li> <li>• Real Estate Valuation</li> </ul>
		Internship

# Ph.D.

## Programmes & Specialisation

- Ph.D Engineering: Electronics, Electronics & Telecommunication, Information Technology, Computer, Mechanical, Chemical, Civil Engineering & Applied Mathematics
- Ph.D Technology Management

## Duration of the Programme

Minimum 3 & Maximum 5 Years (full time)

## Eligibility and Admission Criteria

### Condition 1:

- The candidate must have passed Admission Test conducted by the University.

OR

- The candidate is qualified in NET/SET/GATE/JRF examination of the apex bodies in higher/technical professional education such as CSIR/UGC/ICMR or other equivalent examination.

### Condition 2:

#### a) Ph.D. (Engineering)

The candidate must have passed M.E./M.Tech (2 yrs Program) with minimum 60 percentage / grade B+ (as mentioned by University in Final Marksheet) at Masters Level.

The candidate must have passed M.Sc (For Applied Mathematics Specialization only) 2 yrs Program with minimum 60 percent / grade B+ (as mentioned by University in Final Marksheet) at Masters Level.

OR

The candidate must have passed M.E./M.Tech (2 yrs Program) with minimum 55 percentage / grade B in final year at Masters level & B.E/B.Tech with minimum 60 percentage / grade A (as mentioned by University in Final Marksheet) at Bachelor level.

The candidate must have passed M.Sc (For Applied Mathematics Specialization only) 2 yrs Program with minimum 55 percent / grade B in final year at Masters level & B.Sc (For Applied Mathematics Specialization only) with minimum 60 percent / grade A (as mentioned by University in Final Marksheet) at Bachelor level.

#### b) Ph.D. (Technology Management)

The candidate must have passed M.E./M.Tech/ (MBA with BE/B.Tech) (2 yrs Program) with minimum 60 percentage / grade B+ (as mentioned by University in Final Marksheet) at Masters level

OR

The candidate must have passed M.E./M.Tech/(MBA with BE/B.Tech) (2 yrs Program) with minimum 55 percentage / grade B in final year at Masters Level & B.E/B.Tech with minimum 60 percentage / grade A (as mentioned by University in Final Marksheet) at Bachelor level.

Or

- b. The candidate is a teacher having full time teaching experience of at least two years in Degree College / University. (In relevant area).

OR

- c. The candidate is a person who has successfully completed the professional examination conducted by the Institute of Chartered Accountants of India and/or the Institute of Cost Accountants of India and/or the Institute of Company Secretaries of India. (With minimum 55%)

OR

- d. The candidate is a person who is a graduate of this or any other recognized university and is working in National Laboratories/ Institutes/Government/Private Organization, nominated/sponsored by the respective employer.

**Note:**

- Candidates appearing or awaiting for final year result are eligible to apply.
- Candidates who have cleared their graduation by doing a part-time course or through distance learning, correspondence courses, externally, open school from recognized University are eligible to apply & register as per UGC guidelines.
- During first year of the program, all students will have to complete Pre-Ph. D. course work. On successful completion of Pre-Ph.D. course work student will be registered for Ph. D.

**4. Selection Process: Written Test & Personal Interview****A) Written Test**

Section A: General Aptitude test

Section B: Area/Domain Specific

- Candidates who have qualified in NET/SET/GATE/JRF/GPAT examination of the apex bodies in higher/technical professional education such as UGC, CSIR, ICMR or other equivalent examinations are exempted from NMIMS entrance test. However they have to appear for Personal Interview

**B) Personal Interview**

- Presentation based on SOP will be followed by Personal Interview
- During interview candidates are expected to discuss their research Interest/area
- Only shortlisted candidates based on test will be called for Personal Interview
- Final merit list will be based on Written Test & Personal Interview



**Faculty Members with Director, MPSTME (Shipur)**



**Faculty Members with Dean, MPSTME (Mumbai)**



**Non-Teaching Staff with Dean, MPSTME (Mumbai)**



## **Ban on Ragging in the University**

Ragging is banned in the university and anyone found indulging in ragging is liable to be punished appropriately which may include expulsion from the university. Ragging is strictly prohibited in the university premises and outside. Students involved in ragging other students will be punished as per 'The Maharashtra Prohibition of Ragging Act, 1999 (Mah. XXXIII of 1999) published in Maharashtra Govt. Gazette on 15th May 1999. Moreover, it will be mentioned in the Migration Certificate of such students that they are expelled because of indulgence in ragging. The students found guilty of ragging earlier will not be admitted to this university again.

## **Disclaimer**

NMIMS reserves the right to make any changes as it may deem fit to the items contained in this brochure, including the programme name, programme contents, duration, fees, channel and methods of delivery, faculty, admission and refund policies, evaluation and standard of passing and so on. Besides the faculty members mentioned in this brochure, NMIMS also benefits from the services of a large number of industry professionals who serve as part-time or visiting faculty. NMIMS reserves the right to assign any of those faculty to any programme. Conduct of these programmes is governed by various rules and by-laws as laid down and modified from time to time by NMIMS. Copies of current rules and by-laws are available with the registrar for perusal. All disputes are subject to the legal jurisdiction of Mumbai only.

## **Academic Guidelines**

Detailed Academic Guidelines, regarding Course Outline, Grading, Examination, Attendance Norms, etc., are given in the Students Resource Book (SRB), which is made available to every student who joins the university.

# NMIMS Anthem

We do what's right and not what's easy

We give our best shot each and every time We set the standard

We are the future

We are a part of this institute so fine

NMIMS NMIMS

NMIMS NMIMS

Respect the past

Create the future

Transcend horizons however far

We have what it takes

We make a great team

At NMIMS each one is a star

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SVKM'S

## Narsee Monjee Institute of Management Studies

(Declared as Deemed to be University under Section 3 of the UGC Act, 1956)

### Mukesh Patel School of Technology Management & Engineering

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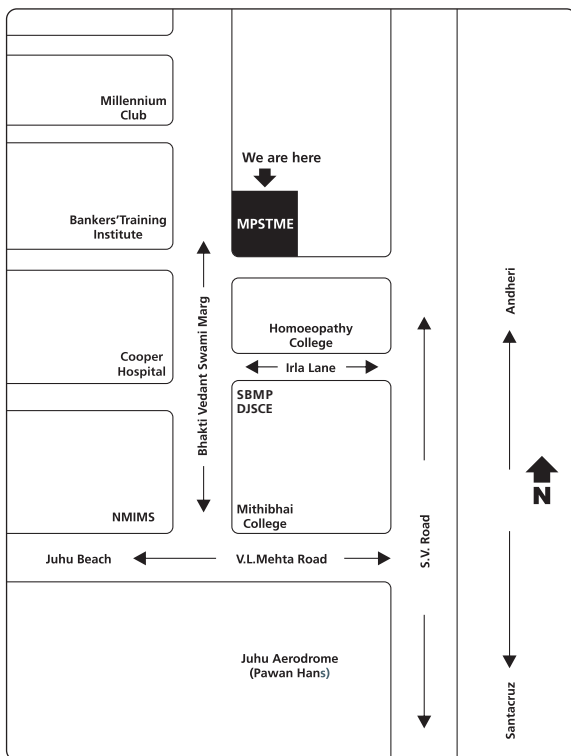
### Shirpur Campus:

Mukesh Patel Technology Park, Babulde, Near Tapi Bridge,

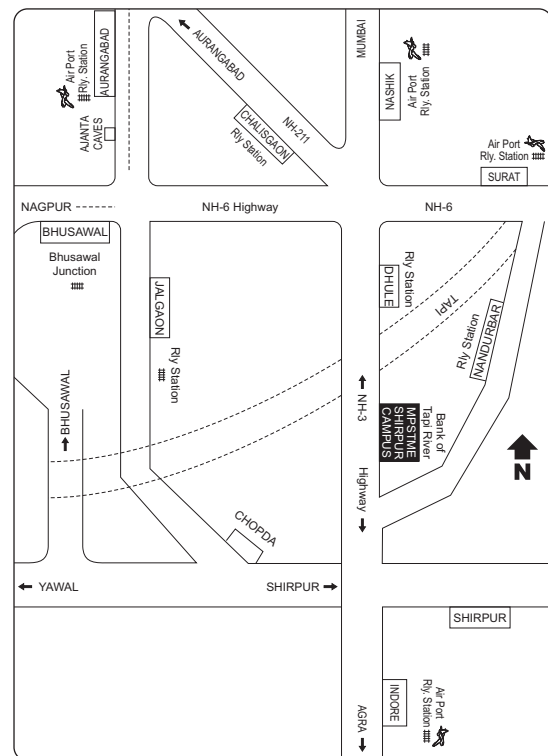
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MPSTME\_Mumbai Campus



MPSTME\_Shirpur Campus