

About the Course

The research in Biomedical engineering bridges the gap between engineering and medicine by blending the technical and analytical skills of engineering with medical and biological sciences. As we know, the demand for advanced medical equipment and procedures along with a need for more cost-effective solutions is increasing. The advances in engineering should be used for improvements in healthcare diagnosis, monitoring and treatment. By exploring different areas of Biomedical signal processing like Biomedical imaging, Bioinstrumentation, Clinical Engineering, etc. research can be carried out for the betterment of the society. It is evident that imaging can easily be utilized for medical diagnosis through AI and Deep learning. Biomedical sensors can be devised for specific use like diagnosing and monitoring disease conditions. This program will provide insights to participants for developing applications in Biomedical Engineering by focusing on recent trends & case studies.

Outcomes

The program will help the participants to develop and conduct suitable experimentation, analyze and interpret data, and use technology to draw meaningful conclusions. It will also provide motivation to acquire and apply new knowledge as needed, using appropriate learning strategies. The program will focus on engineering models to provide solutions to meet specific needs while considering public health, safety, and welfare, as well as global, environmental, and economic factors. It will also help to recognize ethical and professional responsibilities in providing engineering solutions in medical fields.

Important Dates

- Last Date to register : December 04, 2021
- Date of Confirmation by E-Mail : December 06, 2021

Patrons

Shri. Amrish Patel, Chancellor, SVKM'S NMIMS

Dr. J. P. Gandhi, Jt. Secretary, SVKM'S NMIMS

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Dr. Avinash More, Associate Professor & Head EXTC Department

Coordinator

Dr. Manoj Sankhe, Professor & Incharge - BTI (Electronics & Telecommunication Engineering)

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Co-coordinators

Prof. Kashyap Joshi,

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Mr. Punit Ratnani,

Assistant Professor, Department of Electronics and Telecommunication, Mobile: 9158331918



MUKESH PATEL SCHOOL OF
TECHNOLOGY MANAGEMENT
& ENGINEERING



AICTE-ISTE Sponsored
One Week Online Refresher Program

on

**“Future Trends in Biomedical
Engineering”**

December 08 - December 14, 2021

organized by the

**Department of
Electronics and Telecommunication
Engineering**



Mukesh Patel School of Technology
Management and Engineering,
Vile Parle (W), Mumbai-400 056
<https://engineering.nmims.edu/>

SVKM'S NMIMS

Shri Vile Parle Kelavani Mandal (SVKM) is a Public Charitable Trust registered under the Society's Registration Act & Bombay Public Trust Act. SVKM is committed to the cause of providing high quality education at various levels.

Narsee Monjee Institute of Management Studies- NMIMS (Deemed to be) University

NMIMS is amongst the nation's prime educational & research institutions with A+ Accreditation by the NAAC. More than 17000 students, 17 specialized schools and about 750 full-time faculty members, 10 faculty members with Fulbright Scholarship and Humboldt International Scholarship for post-doctoral researchers are part of India's most sought-after academic community. SVKM's NMIMS University is ranked 55th in the NIRF India university ranking 2021.

MPSTME

The Mukesh Patel School of Technology Management and Engineering was established in the year 2006 under the aegis of Narsee Monjee Institute of Management Studies as one of its constituent Schools.

MPSTME was essentially established to serve the need of creating an innovative and integrated space for technology education interspersed with sound management practices that converged with the changing industry as well as societal needs. The vision was to match the demands in the field by creating holistically trained engineers possessing sound technical expertise as well as a vision to integrate their knowledge into creating technology that serves the changing needs of the present world. The MPSTME building today, with its state-of-the-art labs and excellent infrastructure stands a live testimony to the steady realization of this vision. MPSTME has received **ABET accreditation**, "the global gold standard for quality assurance in technical education" for five of its programs. MPSTME is ranked No. 2 among the top emerging private engineering colleges in India as per The Week – Hansa research survey 2021. It is ranked 151 by the NIRF India Engineering ranking 2021.

Institute Vision

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

EXTC Department Vision

To build a strong teaching and research environment that caters to the needs of the fast growing telecommunication domain

Mission

- Provide internationally recognized leaders in Electronics and Telecommunication, through a continuously improving educational program incorporating applied engineering aspects.
- Create the knowledge of fundamental principles and innovative technologies through research in the area of Electronics and Telecommunication and hence teach the students the necessary research skills, which satisfy the needs of a growing economy.

Who Can Attend?

Faculty members / Professionals working in the field of Electrical, Electronics and Telecommunication, Bio-medical Engineering & Diploma Colleges, Technical Institutes, Research Scholars.

Program Schedule

- ✚ Duration: December 08, 2021 – December 14, 2021
- ✚ Time: From 10.00 a.m. to 5:00 p.m.
- ✚ Inauguration: December 08, 2021 at 10:00 a.m.

Registration

- ✚ There is no registration fee for the course.
- ✚ Priority will be given to ISTE life members.
- ✚ ISTE members should upload the membership card for verification.
- ✚ The certificate will be issued by AICTE-ISTE to only those who qualify the criterion prescribed by ISTE regarding the minimum attendance and score in the online exam.

Link for registration:

<https://forms.gle/BcWzQcaLnjbEcGiWA>

Resource Persons

- **Dr Maryam Shojaei Baghini**, Professor Department of Electrical Engineering, IIT-Bombay, INAE Fellow TATA Trust Chair Prof. and Qualcomm-India Faculty Awardee Electrical Engg. Dept.
- **Dr. Ulhas K Kharul**, Senior Principal Scientist, CSIR-National Chemical Laboratory, Pune, India.
- **Dr Deepak Patkar**, Director - Medical Services & Head Imaging, Nanavati Max Super Speciality Hospital, Mumbai.
- **Dr. V R Sule**, Professor, Department of Electrical Engineering, IIT-Bombay.
- **Dr. Siddharth Tallur**, Associate Professor, Department of Electrical Engineering, IIT-Bombay.
- **Dr. Kaustav Talapatra**, Director, Radiation Oncology and Coordinator Radiosurgery, Nanavati Max Super Speciality Hospital, Mumbai.
- **Dr. Prasad Joshi**, Professor, Head Electronics Engineering Department, D.J. Sanghavi COE Mumbai.
- **Dr. Arulmozhivarman Pachiyappan**, Professor, Electrical Engineering and Dean, VIT University.
- **Dr. Tanuja Dixit**, Senior Scientist, SAMEER, IIT-Bombay.
- **Dr. Dhananjay Bodas**, Scientist, Nanobioscience Agharkar Research Institute (ARI), Autonomous Institute under Department of Science and Technology, Govt. of India.
- **Dr. B.Balamurugan**, Professor, School of Computer Science and Engineering, Galgotias University.
- **Dr. Ashwini Gajarushi**, Senior Technical Officer at Technology Innovation Hub for IoT and IoE (TIH-IoT), IIT-Bombay.
- **Dr. S. Vivekanandan**, Associate Professor, Department of Instrumentation, VIT University, India.
- **Dr. Pratap S Vikhe**, Associate Professor, Department of Instrumentation and Control Engineering Pravara Rural Engineering College, India.
- **Dr. Mitusha Verma**, Consultant – Radiology, Nanavati Max Super Speciality Hospital, Mumbai.