MEDICAL DEVICE INNOVATION

PLACEMENT BROCHURE
2022-2023

About Us

Department of Biomedical Engineering of IIT Hyderabad, along with the Asian Institute of Gastroenterology (AIG) Hyderabad, introduced this course specifically considering the need for innovative medical devices for patients and the need for Indian industry orientation to medical devices. In this Mtech course, candidates passionately find innovative and creative solutions to the problems faced by the current health industry. The students are trained to find problem statements in the health industry, discuss the solutions among engineers, doctors and designers and **devise a solution to fulfil the requirements.**

Key Highlights :-

- Highly skilled set of students working on latest technologies like ML & AI for disease prognosis, Big Data Analysis, IoT in healthcare, Signal Processing, Computer-Aided Design techniques for Rapid 3D Printing and Prototyping & Flexible and Wearable Electronics.
- Mixed group of experienced students from various streams like EE, ME, EEE, BME, BT.
- World renowned faculty with publications in top conferences and journals.

More at:

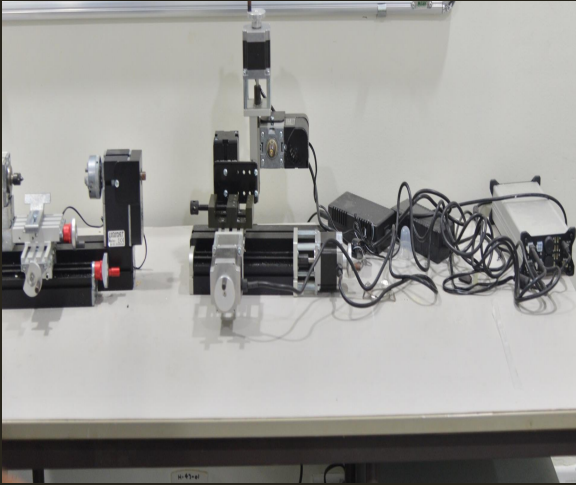https://bme.iith.ac.in/assets/pages/admtechmdi.html

Courses

- Design thinking
- Anatomy and Physiology
- Disease state Fundamentals
- 3-D Prototyping and Modeling
- Fundamentals of Machine Learning
- Introduction to AI & ML
- Data Structures & Algorithms
- Biomedical Devices
- Bio design Process
- Clinical immersion
- Capstone Project
- Intellectual property and Rights
- Biomedical Device Safety and regulations
- Biomedical Devices Standards
- Business Plan and Entrepreneurship
- Flexible and Wearable Electronics
- Biofabrication Technology
- Neuromechanics
- Basic Bioinformatics
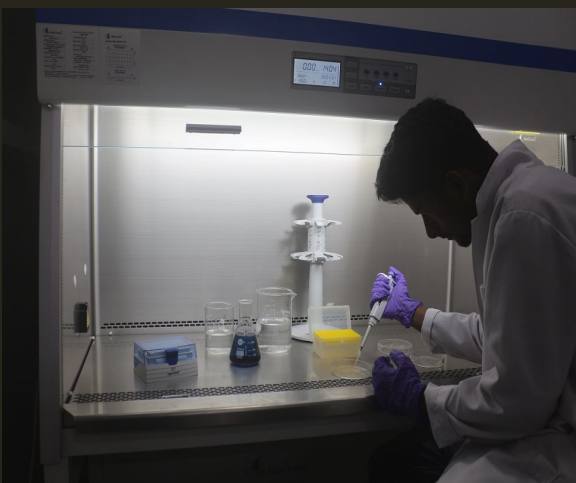- Biomedical imaging

Lab Facilities

Electronics Workshop & Medical Device Testing Lab

3D Prototyping Lab

Wet Lab

Why Should You Hire Us?

Academically cross-trained students from disciplines such as Electrical, Electronics, Mechanical, Biomedical and Biotechnology.

Students are skilled in real-time problem identification and figuring out practical solutions.

Students have an experience of hands on prototype development using state of the art research facilities.

Students have varied skill set ranging from Signal processing, Data Science & analytics, Web Development, AI including Machine learning & Deep learning with programming skills in Python, C++, Matlab and other simulation softwares.

Soft skills like communication skills, teamwork, problem solving skills, leadership skills, work ethics, interpersonal skills are well instilled into us while engaging in various club and extra-curricular activities, which are an integral part of IIT Hyderabad student life.

Faculty

Faculties from various Departments such as Biomedical Engineering, Electrical Engineering, Aerospace Engineering, and Design Engineering work together for innovative solutions for the problems faced by the current health industry. Their research areas include the development of Computational Solid Mechanics, Biomedical imaging, Optical coherence imaging and microscopy, Flexible & wearable nanoelectronics, Nanomaterials based devices and circuits, Paper electronics, Electrochemical sensors and supercapacitors, Product design, Materials and processes, Invasive and non-invasive neuromodulation, Neuroimaging of the healthy and diseased brain, Neuromonitoring at point of care, Bioinstrumentation, Biomaterials, 3D Bioprinting, In Vitro Tissue/Organ Models, Medical Ultrasound Techniques & Devices, Diagnosis & Therapy of Cancer, Preclinical & Clinical Trials.

Dr. Renu John

Dr. Avinash Eranki

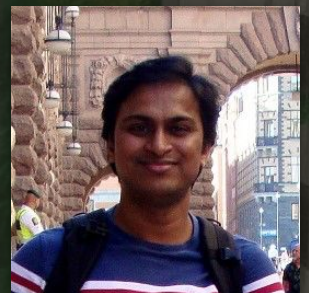**Dr. Sushmee Badhulika**

Dr. Kousik Sarathy

Dr. Viswanath R R S R Chinthapenta

Dr. Srikar A V R

Dr. Aravind K Rengan

Dr. Falguni Pati

Students

Ananya Sharma

Komal

Shweta Sharma

S Ananda Theertan

Manabendra
Sandilya

Prateek Ranjan

Cheerla Ranjith

Un Sai Sandeep

Subhranil Roy

Sujeet Kumar

Vaibhav Rachalwar

Placement Team

Kindly register through our Office of Career Services (OCS) Portal
For further information please refer to IITH's Placement Brochure
https://ocs.iith.ac.in/

Contact Us

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