



भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

Indian Institute of Technology Hyderabad

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PRESS RELEASE

A new B.Tech program in Biomedical Engineering from IIT Hyderabad

India's unique and exciting BME programme at IIT Hyderabad. Exciting areas includes: Medical Imaging, Cancer Therapy, Nanomedicine, 3D BioPrinting, Neuroscience and more.



HYDERABAD, 7th October 2020: IIT Hyderabad is pleased to announce the starting of a new B. Tech in Biomedical Engineering. This will be a unique program that trains world class biomedical engineers in next generation healthcare technologies and prepare them to work at the frontiers of healthcare innovations in the deep-tech industry or academia.

As an IITH Biomedical engineer, you can expect to be trained to design medical devices, develop 3D imagers and microscopes, crunch mountains of healthcare data, recognize patterns in health and disease, simulate and predict spread of epidemics, create brain-spinal systems *in silico*, move prosthetics with your thoughts, 3D print a cornea, bone or skin, develop nano-particles to fight tumors or burn them down with ultrasound, design implants, regenerate organs from stem cells, create bio sensors on a chip, model impact on body, craft algorithms that mimic our body and brain and much more!

Professor B S Murty, Director, IIT Hyderabad Mentions in his press briefing that *"IIT Hyderabad has taken a bold step towards Athma Nirbhar Bharat through Athma Viswaas, by developing a strong B.Tech program in Biomedical Engineering thereby inculcating biomedical education in young minds from the grassroots, with the B.Tech program for the first time among all IITs. We strongly believe that this program will*

help in bringing out indigenous medical devices of high quality that serve all sections of the country.”

One of the unique X-factors of our program is an advanced module on biomedical product design, entrepreneurship, regulatory affairs and clinical immersion, that brings in a core product design and development focus. A lot of these are the result of learnings from Center for Healthcare Entrepreneurship (<http://cfhe.iith.ac.in>) which is being run by the Department of Biomedical Engineering.

This curriculum is designed around 4 verticals - bio-imaging/sensing, bio-mechanics, bio-materials & bio-intelligence / AI. They rest on a single horizontal - core training in physiology, anatomy, systems science, mathematics, circuits, instrumentation, mechanics and algorithms. In designing this curriculum, we drew from our successful Master’s program in Biomedical Engineering, and the depth of our research and industry collaborations.

IIT Hyderabad’s alumni are spread around the globe in the best of healthcare technology companies and at leading research labs. To explore more, visit us at <https://bme.iith.ac.in/assets/pages/btech.html>

For further details about the program contact Head, BME at head@bme.iith.ac.in.

About [IIT Hyderabad](#)

Indian Institute of Technology Hyderabad (IITH) is one of the six new Indian Institutes of Technology established by the Government of India in 2008. In a short span of **12** years, the institute built on an imposing **570**-acre campus and has been ranked among the top ten institutes for four consecutive years in the National Institute Ranking Framework (NIRF) released by the Ministry of Human Resource Development (MHRD), Government of India. The Institute was also ranked under Top **#20** in the recent edition of Atal Ranking of Institutions on Innovation Achievements (ARIIA) introduced this year by MHRD to systematically rank all major higher educational institutions and universities in India on indicators related to ‘Innovation and Entrepreneurship Development’ among students and faculties.

IIT Hyderabad has close to **221** full-time faculty, **2,855** students of whom **20** per cent are women, nearly **200** state-of-the-art laboratories and five research and entrepreneurship centres. The Institute has a strong research focus with more than Rs. **500** crore of sanctioned research funding while PhD scholars account for about **30** per cent of total student strength. IITH students and faculty are at the forefront of innovation with more than **1,500** research publications and patent disclosures, **300** sponsored/ consultancy projects and more than **70** industry collaborations. IITH has MoUs with more than **60** universities in the U.S., Japan, Australia, Taiwan and Europe. IITH has been a pioneering change in pedagogy with fractal academic programmes that atomizes course modules, encourage interdisciplinary learning, spanning innovative technology, fundamental science, liberal arts and creative arts like photography, theatre and painting.

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