# MTech in Medical Device Innovation
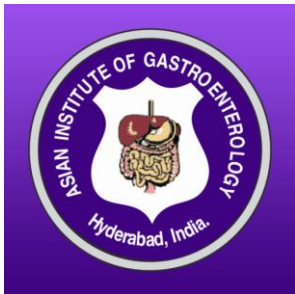
**Dept. of Biomedical engineering, IIT Hyderabad;**
**Asian Institute of Gastroenterology(AIG) Hyderabad.**

**MAY 2020**

# Preamble

Department of Biomedical Engineering of IIT Hyderabad along with Asian Institute of Gastroenterology (AIG) Hyderabad is introducing a course specifically considering the need of innovative medical devices for patients and the need of Indian industry orientation to medical devices.

The course, **MTech in Medical Device Innovation**, is intended for candidates, who passionately feel for finding innovative solutions for the problems faced by current health industry.

The students will be trained for finding problem statements in health industry; discuss the solutions among engineers, doctors and designers; and come up with a solution to fulfill the degree requirements.

# Eligibility

A structured hands-on project-based program, suitable for industry professionals or healthcare professionals. The students should be eligible with a degree of:

- BTech in any of Biomedical, Biotechnology, Electrical, Chemical, Design, Mechanical, or Material Science or similar subject areas
- B Des
- MSc in any discipline
- MBBS, BAMS, BHMS, BDS

with a passion for improving the healthcare quality and conditions over the globe.

Candidates with industry experience of one year or more or with entrepreneurial inclination will be preferred and are encouraged to apply.

# Fee structure

- The candidates will be shortlisted based on their academic merit with CGPA of 7.0 or above or equivalent and shall be selected via written test/interview.

- The MTech program in Medical Device Innovation can be either of:

1. **Self-sponsored with fees**: ₹10 lacs INR approx., including the course fees for pedagogy (core and elective credits) and Project credits.

2. **Govt. Lab/ Public Sector sponsored category**

# Course Curriculum

Duration: 2 years

**For further details:**
**Email:**
mtech.bme@iith.ac.in
with subject head MDI

**Web:**
http://biomed.iith.ac.in/

## Credit requirements

50 credits of courses distributed over four semesters, namely,

- 24 credits of core and elective courses in 1st and 2nd semesters

- 24 credits of project components in 3rd and 4th semesters

- 1 credit each for English communications and Industry lectures



**Course curriculum distribution**

- 39% Biodesign Process
- 23% Technical Electives
- 15% Entrepreneurship
- 15% Clinical Immersion
- 8% Standards,IP