

## **Uniqueness of IIT Hyderabad & Recent Initiatives Relevant to UG Students**

IIT Hyderabad (IITH), established in 2008, is ranked among the top 10 Eng. institutions in the country in NIRF for the past 8 years, ever since NIRF rankings have been started (ranked 8 in 2023). IITH is ranked 3<sup>rd</sup> in NIRF-Innovation Rankings-2023, crossing 5 of the 7 First Gen IITs (Bombay, Delhi, Kharagpur, Guwahati and Roorkee). IITH has been striving for excellence passionately with a motto of “*Inventing and Innovating in Technology for Humanity (IITH)*”. The unique features of IITH and the recent initiatives are captured below.

### **Some Important Statistics:**

- 4200+ students (1700 UG students), ~300 faculty and ~300 staff.
- 2220+ projects worth of Rs. 880+ Crores, 190 patents and 130+ startups (which have created 1000+ jobs and Rs. 1200+ Cr revenue).

### **Academic Innovations:**

- First institute in India to start Fractal Academics.
- First among the IITs to start unique BTech programs such as Engineering Sciences (2012), Artificial Intelligence (2019) Biomedical Eng. (2020), Biotech. & Bioinformatics (2021), Industrial Chemistry (2021), Computational Engineering (2021) and IC Design & Technology (2022).
- Unique BTech in Engineering Sciences (first among IITs), where students can pick up any courses of their choice to graduate.
- First multidisciplinary BTech program among IITs on Computational Engineering to create computational engineers for manufacturing industry instead of software industry.
- First in the country to start BTech in IC Design & Technology to support the dream of India Semiconductor Mission. This curriculum is adopted by AICTE for other colleges.
- A flexible BTech curriculum that has 10% basic sciences, 10% basic engineering, 60% professional major, 10% liberal/creative arts and 10% free electives to create well rounded human resources.
- A BTech curriculum that provides semester-long internship with 6 credits (6th semester, Jan-July) to get connected to industry (first among IITs to introduce this).
- Unique departments such as AI, Climate change, Design, Liberal arts, Entrepreneurship & Management.
- Offers Double Major in the UG, including a Double Major in Entrepreneurship.
- Several industry-focused Interdisciplinary (ID) MTech programs through the Centre for ID Programs (CIP), which UG students can take for Dual degree (BTech+MTech) (to be decided at the end of 3<sup>rd</sup> year BTech)
- Removed Branch change option in BTech, so that students develop interest in their branch.
- Option for the BTech students to leave with a Diploma after completing 50% of courses.
- Supporting Innovations by the students through BUILD (Bold & Unique Ideas Leading Development) projects and providing a semester break with 6 credits to students to pursue such innovations.
- Opportunities to work in the fields of Autonomous Navigation, 5G/6G, Health care innovations, AI/ML,
- Technology Incubation Park (TIP) with 150,000 sft to support innovative ideas & startups.