

IIT Hyderabad refining the future of fabrication at Central Workshop on Campus

Highlights:

- (a) *Conduct free skill development courses for ITI students for local community development.*
- (b) *Imparting practical workshop training to BTech students (Mechanical, Civil, Design, & Industrial Chemistry).*
- (c) *Provide fabrication assistance to faculty, students, and external scholars for their research work.*
- (d) *Fabrication works for startup companies and other external agencies on a payment basis.*

Hyderabad, July 18, 2022

Central Workshop is the first fabrication facility set up at IIT Hyderabad (IITH) in 2009. Over the year, it has developed & enhanced its capability by acquiring no. of sophisticated machines with very specific purposes in mind. The primary objective of the Central Workshop is to provide hands-on training to the students, be it IITH Students or technocrats from the nearby institutes. **Recently IITH has conducted a skill development workshop for 57 ITI students from Patancheru & Sangareddy in 4 batches in May & June with the aim to strengthen their skills in conventional Machining and give them an introduction to the modern CNC machinery.**

Proudly presenting the facility as one more step towards achieving ‘Aatma Nirbhar Bharat, Prof B S Murty, Director, IITH, expressed, “IITH, with full determination, is focused towards ensuring its every step serves humankind in better & get closer to the motto of Inventing & Innovating in Technology for Humanity. Central Workshop is one unique platform at IITH that is not only aiding engineering excellence but also encouraging the learning & development of the talents surrounding IITH. We will ensure IITH is not only known globally for its research but also as a Centre of Excellence for Skill Development.”

Briefing about the facility Dr Karri Badarinath, Faculty-in-Charge, Central Workshop, mentioned, “The facility has been used extensively for research-related fabrication work by Faculty, Students & Startups at IITH. IITH has a very vibrant Startup culture, and many of these startups use this facility to fabricate & test their products utilizing the expertise IITH has obtained over the decade.”

In addition to supporting the department & campus by making sanitizer stand during the pandemic, Central Workshop has supported many high-tech fabrications for Maruti Suzuki V2X Projects, TiHAN, and Startups like Gersafe, Crystal Ball, and Manali Swings, to name a few.

Facilities at the Central Workshop include the following state-of-the-art equipment along with an Electrical & Electronics Shop comprising signal generators, voltage/ current sources, and a **Fitting shop** comprising bench vices, pedestal drilling machines, tapping machines, and wheel grinder machines will complete sets of tools and accessories:

1. 5 Axis Machine (Make BFW with SINUMERIK 840DSL controller).
2. Vertical Machining Center (Make BFW with SINUMERIK 828 Controller). **The machine was donated by M/s Sai Deepa Rock Drills, Hyderabad, under their CSR funding initiative and was installed in Jan 2022.**
3. CNC Lathe (Make HMT Praga with FANUC Oi Mate controller)
4. Heavy Duty Lathe (Make HMT).
5. Universal Milling Machine (Make BFW).
6. Laser Cutting and Engraving Machine.
7. TIG/ MIG/ Gas/ Arc Welding.
8. Plasma Cutting Machine (Make: Ador Fontech/Hypertherm).



9. Injection Moulding Machine (Make: Ferromatik Milacron).
10. Radial Drilling Machine (Make: HMT).
11. Surface and cylindrical Grinding Machines.
12. Light Duty Lathes (15 nos).
13. Power Band Saw.

Video Abstract: <https://youtu.be/EFTsJOZmKcl>

About IIT Hyderabad

Indian Institute of Technology Hyderabad (IITH) is one of the eight new IITs established by the Government of India in 2008. In a short span of **14** years, the institute has become a top ranker. It has **274** full-time faculty, **~3,800** students, nearly **200+** state-of-the-art laboratories, and five research and entrepreneurship centers. The institute has a strong research focus with approx. Rs **535+** crore of sanctioned research funding, with Ph.D. scholars accounting for about **30%** of total student strength. IITH has more than **7,500+** research publications with **92,700+** Citations, **164** Published Patents, **1,700+** sponsored/consultancy projects with **500+** running projects, and about **100+** startups.

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