

IIT-Indore unveils three labs on Ujjain campus

Indore: As part of the upcoming campus at Ujjain, IIT Indore inaugurated three state-of-the-art labs under Centre for Experiential Learning on Innovation, Technology and Entrepreneurship (C-ELITE) in Ujjain engineering college.

The labs, namely Makers' Space, Heritage and Innovation Centre in Astronomy and Space Engineering (HICASE), and Laser Engineering, were inaugurated by chief minister Dr Mohan Yadav. Union education and skill development and entrepreneurship Dharmendra Pradhan was present virtually to mark the event.

IIT Indore director Prof Sushas Joshi said that the campus aligns with the National Education Policy 2020 and envisions a Deep Tech Research and Discovery Campus built on the pillars of research and innovation.

The campus will include Deep Tech Research laboratories, a Discovery Center, a Lab-to-Market Center, and a Center for New and Emerging Technology, he said adding It will also support real-life products through a Lab-to-market Incubation and entrepreneurship cen-

ter, benefiting engineering students from state colleges.

The Makerspace Laboratory aims to provide a conducive environment for young engineering students to showcase their innovative and creative ideas. It encourages students to dismantle and examine systems, as well as rebuild them. This lab will also enable students to transform their creative concepts into tangible engineering products, an institute release said.

HICASE is a unique center that combines ancient wisdom with modern technology to inspire young minds. It encompasses various aspects such as Astronomical Heritage, Space Science Education Hub, Skill Development Centre, Data Intensive Computing & Analytics Laboratory, and Start-up and Innovation in Device Technology related to Astronomy and Space Research, it said.

The Laser Engineering lab offers hands-on experience to students and faculty in designing laser systems for different industrial needs. The lab includes Laser-based GI Index Printing on Textile, which allows for geographical indexing on

textile products and wood carving. It also features Laser Michelson Interferometry for high-precision distance and thickness measurements, Laser Engraving and 3D Printing, Opto-Mechatronics System for nano to micro-level laser beam steering, and Photoacoustic System for Health Monitoring to screen for early-stage cancer diagnosis.

Over the next five years, IIT Indore aims to develop 250 new technologies. Through its Lab-to-Market program, it plans to incubate 150 ideas and bring at least half of them to the market-ready stage.

The campus will also offer degree programs, executive programs, and skill development programs. It also aims to train 2500 individuals in deep technology over the next five years. The campus facilities will include five conference halls, fifteen digital classrooms, an Administrative Building, and Residential & Hostel complexes. It will serve as a hub for cutting-edge research, interdisciplinary collaboration, and talent development, contributing to the nation's progress. TNN