

Registration Details

There is NO Registration fee.

Last Date for registration: **15/01/2023**

Link for registration:

<https://forms.gle/sf64QiqD68NmGpcH7>

Or

Scan QR Code for Registration



(Visit BIT Durg website to access the registration link)

www.bitdurg.ac.in

For any queries/clarifications may reach out to us via email to idealab@bitdurg.ac.in or contact to

Prof. Kauleshwar Prasad
Idea Lab Guru
9981950197

Prof. Sargam Gupta
Assistant Professor(CSE)
9424188215



Mentor

Dr. Arun Arora *Director & Chief Mentor, Idea Lab, BIT Durg*
Dr. M. K. Gupta *Principal, & Coordinator, Idea Lab, BIT Durg*

Convener

Dr. Sunita Soni *HOD CSE, BIT Durg*
Dr. Pawan Kumar Patnaik *Co-Coordinator, Idea Lab, BIT Durg*

Coordinator

Prof. Kauleshwar Prasad *Idea Lab Guru, BIT, Durg*
Prof. Sargam Gupta *Assistant Professor, Dept. of Computer Science and Engineering.*

Co-Coordinator

Prof. Suchitra Pandey *Idea Lab GURU, BIT, Durg*
Prof. Amit Thakur *Assistant Professor, Dept. of Computer Science and Engineering.*

Organizing Committee

Dr. Santosh Mishra *Idea Lab GURU, BIT, Durg*
Dr. Anil Kumar *Idea Lab GURU, BIT, Durg*
Prof. Manoj Sao *Idea Lab GURU, BIT, Durg*
Prof. Anupam Agrawal *Idea Lab GURU, BIT, Durg*
Prof. Monika Verma *Assistant Professor*
Prof. Shanu Pandey *Assistant Professor*



ONE WEEK SKILLING PROGRAMME



On Smart Manufacturing and Automation using Machine Learning Techniques

(16th – 21st January 2023)

Jointly Organized by
Department of Computer Science and
Engineering

&

BIT AICTE IDEA LAB



BHILAI INSTITUTE OF TECHNOLOGY, DURG
(Seth Balkrishan Memorial)

BHILAI HOUSE, DURG 491001 (C.G) INDIA
1st Autonomous Technical Institution in
Chhattisgarh

Accredited with 'A' Grade by NAAC

NIRF 2020 RANK-BAND: 251-300

Website: <https://www.bitdurg.ac.in>

THE INSTITUTE

Bhilai Institute of Technology, Durg is initiated by notable stalwarts of central India in 1986 with a vision to become one of the Premier Technical and Management Educational Institutions in the Country, delivering excellent professional education, creating value based globally competitive professionals and achieving excellence in all our endeavors. BIT campus has a conducive and supportive academic ambience facilitating high quality education and research for more than 4000 students of bachelor's, master's and doctoral programs. BIT, Durg is the first technical institute in the state to be conferred Autonomous Status by UGC, Government of India. Seven of its undergraduate programs have been accredited by NBA and the institute itself has been "A" grade accreditation by NAAC. The institute stands in NIRF 2020 Rank-band: 251-300 in the category of Engineering. Under AICTE Margdarshan Scheme, the institute is mentoring ten technical institutions to encourage best practices. BIT, Durg is selected by AICTE to establish IDEA Lab in 2021.

ABOUT DEPARTMENT

The Department of Computer Science and Engineering was established in 1998. As on date, the department steers itself with a Vision to provide cutting edge learning environment and nurture talent to produce world class computer professionals with ethical values who could excel in industry and research. The prime educational objective is spreading engineering ethics, domain prospects, diversification and self-sustained learning environment among budding computechnocrats. The department offers two undergraduate courses: B.Tech. (Computer Sc. and Engineering) and B. Vocational Training (Software Development) with two more new under graduate courses: BTech (Data Science) and BTech (Artificial Intelligence); two postgraduate courses:

M.Tech. (Computer Networks) and M.Tech. (Data Science) as well as doctoral courses in major and allied specializations of the discipline. The backbone of the department is reflected by atpar-quality research of international and national reputes, experienced teaching fraternity and latest infrastructure sufficing the flagship of the excelling department in all endeavors. The B.Tech. (CSE) program of the department is accredited by the National Board of Accreditation (NBA) for third time till 30.06.2023

AICTE IDEA LAB

The purpose of IDEA Lab is to provide all facilities under one roof, for conversion of an idea into a prototype. With these facilities in the campus, more Students, faculties and school teachers will be encouraged to take up creative work and in the process, get training on creative thinking, problem solving , collaboration etc. which conventional labs are not able to. The focus will be on training students and teachers so that they become imaginative and creative and stay so at the workplaces they join. The whole idea is to transform education with such a Lab in all colleges/schools and for this they must proactively expose all students to the IDEA Lab, organize training sessions for interested students as well as support projects and by providing online learning materials. Teachers must also get trained in these Labs to know their scope and opportunities in teaching learning processes as well as research and development projects. They should encourage the students to take up and themselves get involved in activities, projects, internships which involve utilization of such Labs. They must strive for creating problems/ projects/internships in their own subjects/ disciplines and mentor the students.

OBJECTIVE

To explore the state-of-the-art technologies in following field through hands-on sessions



Design and Develop Real time Machine Learning Based Projects

- Apply learning methods to solve real time applications problems.



Laser Cutter & CNC Machine

- Software Training and G-code and M code preparation.



3D Scanner , 3D Printer & PCB

- Scan object , Print using 3D printer & PCB Designing.



Design and Develop IOT Based Projects

- Experience the new age of learning in the field of IOT.

WHO CAN APPLY ? GUIDELINES

- B. Tech. students of Mechanical, Electrical, ETC, CSE, DS, AI, IT, EEE, MCA and Civil Engineering from AICTE approved Institutions may apply.
- The number of participants is limited to 45 and participants will be selected on the first come first service basis.
- Training in the areas like Machine Learning concepts and algorithms , IOT, electrical and electronics fabrication, embedded systems design. Embedded programming, 3D printing, robotics, welding etc.

DURATION OF SKILLING PROGRAMME

- It is one week program which will start from 16th January 2023 @ 10:30 AM in IDEA LAB BIT Durg.
- Working hours will be 10:30 AM To 05:00 PM.