



About AICTE-IDEA LAB

VISION

To Bring About a Revolution in Technical Education by Familiarizing Young Minds with the Most Recent Technologies, Processes, & Skills Necessary to Build an Atmanirbhar Bharat

MISSION

- Providing a proper platform to cultivate innovative designs, scientific aptitude, employable and entrepreneurial skills among the students
- Providing advanced lab facilities to the neighboring schools, colleges and technical institutions of Durgapur
- Promotion of Industry-academia collaboration.
- Skill enhancement and promotion of interdisciplinary research
- The proposed AICTE-IDEA lab will strengthen the employable and entrepreneurial skills of the students within the vicinity of the campus, subsequently paving the way for "AATMANIRBHAR BHARAT".

Event Details

- AICTE-Idea Lab, Dr. B. C. Roy Engineering College, Durgapur, West Bengal
- 30-05-2022
- 10:30 AM - 4:00 PM
- <https://srv15-bcrec.in/idealab>
- CMA 1390
(CO2 LASER CUTTING/ENGRAVING MACHINE)

REGISTRATION

<https://forms.gle/Fgn2AOCGeL49SI468>



Address Of Communication

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WORKSHOP ON
SUBSTRUCTIVE MANUFACTURING:
CNC CO2 LASER CUTTER
ACTIVITY TYPE : SKILL DEVELOPMENT

HOST INSTITUTE



**DR. B. C. ROY ENGINEERING COLLEGE,
DURGAPUR**



ABOUT HOST INSTITUTE:

Dr. B.C Roy Engineering College,Durgapur,popularly known as BCREC,was set up on 21st August ,2000,under the overall management of dr.bc roy engineering college society. The institution has grown steadily over the years from a single Unit to a Group of Institutions creating multiple job opportunities. Academic attainments of the faculty are evidenced by their high standards of erudition & commitment. Wi-Fi enabled campus has integrated technology into its teaching learning process with virtual learning platform in times of crisis. A dedicated Entrepreneurship Cell provides an environment that fosters and nurtures entrepreneurship and start-up projects based on students' innovative ideas. The teaching excellence at BCREC Durgapur, is inspirational for the young minds.



FROM CHIEF MENTOR'S DESK

Dr B C Roy Engineering College is a welknow engineering Institute offering various UG and PG Engineering Programme in Civil, Mechanical, Electrical, Electronics Communication, Information Technology, Computer Science and Engineering and Artificial Intelligence. Students who have taken admission here not only have excellent educational and infrastructure facilities, but also an opportunity to explore their technical and professional creativity. These can be showcased on various forums at national and international level. The buildup of professional growth starts from the very beginning of the first year and is fully explored till they reach final year.

One of the opportunities for all these activities is the AICTE sponsored IDEA lab in the campus. The lab is fully equipped with the machines and modern equipment and setup in various areas. The equipment such as CNC router, 3D printers, LASER Cutter and other test and measuring equipment can be used to built an professional, entrepreneur and freelancing approach in the area of interest in emerging technologies. The team of AICTE-IDEA lab have lined up various programmes for the students of almost all programmes. The training and workshops will continuously go on throughout the year and each student of the Institute should take this opportunity. Some of the sessions are also being planned for the informal sectors to build the ideas and generate the skills in modern manufacturing and servicing sectors. I request all to inform their friends and take the benefit of the opportunity offered by the Institute. I am sure each student will choose their interest and skill themselves in addition to the traditional Engineering Programme, which would support them in multiple ways.

Dr Sanjay S Pawar.

Topics Covered During Workshop

- Knowledge of Machine parts.
- How Chiller Works and its importance.
- Connectivity of all parts with Machine.
- Safety Precautions are necessary for handling laser.
- Operating the machine
- Basic Maintenance
- Software Training
- Material Details
- Demo of cutting and engraving on some materials
- Quality assessments and optimizations of laser cuts

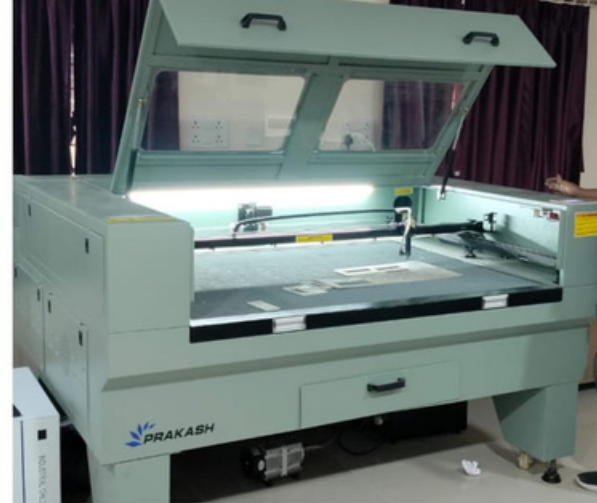
Materials Required:

- Paper
- MDF Board
- Sun Board
- Fabric

Outcome:

Upon completion of the course, the learner will be able to

- Inculcate CAD design paradigm among students.
- Engrave/Cut using Laser Cutter for Prototype design/development.



PATRON

SHRI TARUN BHATTACHARYA

CHIEF MENTOR

DR. SANJAY S. PAWAR
Principal,BCREC

ORGANIZING COMITTEE

COORDINATOR

Dr. K.M HOSSAIN
Vice Principal,BCREC

CO-COORDINATOR

Dr. MRINMOY CHAKRABORTY
ASST. PROFESSOR

GURUS:

DR.ABHIJIT BANEERJEE
ASST. PROFESSOR ,BCREC

PROF. MOLOY MUKHERJEE
ASST. PROFESSOR ,BCREC

PROF. SAMUJJWAL RAY
ASST. PROFESSOR ,BCREC

PROF. Koushik CHATTERJEE,
ASST. PROFESSOR ,BCREC