BOOTCAMP ON "DIGITAL MANUFACTURING"

June 19th – June 24th, 2023

" 3D printing, CAD, CNC Machining, Laser Cutting, 3D Laser Scanning, Virtual Lab"

DAYALBAGH EDUCATIONAL INSTITUTE, DAYALBAGH, AGRA

Bootcamp on Digital Manufacturing

(Unleashing Creativity with 3D Printing, CAD-CAM, CNC, Laser Cutting, Laser 3D Scanning, and Virtual Lab)

The "Bootcamp on Digital Manufacturing" is a basic program designed to provide exposure to participants with the skills and knowledge required in rapid prototyping. This intensive six-day camp focuses on Six key prototyping technologies: 3D printing, CAD, CNC machining, and laser cutting, 3D Laser Scanning and Virtual Lab.

Overview

Through a combination of theory, practical exercises, and interactive sessions, participants will gain a foundation in each digital manufacturing technique. The boot camp focuses on a balanced approach of theory and hands-on experience, allowing participants to put their newfound knowledge into practice immediately. They will have the opportunity to work on individual projects, experiment with different materials and receive guidance from experienced instructors.

Key Topics Covered

1. Demystifying 3D Printing
2. CAD
3. CNC Router
4. Laser Cutting and Engraving
5. Tabletop CNC Milling
6. Tabletop CNC Lathe
7. Laser 3D Scanning
8. Virtual Lab

Certificates are provided to all Participants

Registration

Register on:
https://forms.gle/T2EkSGgxvFMc7q7R6
or
Scan

Contact Details
7830558244
abhishek151135@dei.ac.in

Minimum Qualification to Register
10th Class Onwards

Registration Charges
For DEI Students: Rs. 100/-
For Non-DEI Students: Rs. 500/-
(inclusive GST)

ACCOUNT NAME	DEI CONFERENCE ACCOUNT
ACCOUNT NUMBER	305601010291491
IFSC CODE	UBIN0530565
BANK NAME	UNION BANK OF INDIA

यूनियन बैंक ऑफ इंडिया Union Bank of India
भारत सरकार का उपक्रम A Government of India Undertaking
आन्ध्रा Andhra   कार्पोरेशन Corporation

DEI CONFERENCE ACCOUNT
QR919997421555-1491@unionbankofindia

BHIM | UPI
BHARAT INTERFACE FOR MONEY | UNIFIED PAYMENTS INTERFACE

Last Date For Registration: 15-June-2023

Venue: FABLAB, School of Education, Dayalbagh Educational Institute, Dayalbagh, Agra-282005

BOOTCAMP on DIGITAL MANUFACTURING

"Unleash Innovation with Rapid Prototyping Excellence"

Date: 19/06/2023 to 24/06/2023

DAY 1

- ✓ Introduction to Rapid Prototyping Techniques and their significance
- ✓ Overview of the boot camp schedule and objectives
- ✓ Understanding the Prototyping process and its key stages
- ✓ Session on Virtual Lab

DAY 2

- ✓ 3D Printing Fundamentals and types of 3D printers and their capabilities
- ✓ Designing for 3D printing using CAD software
- ✓ Hands on Practice on FDM 3D Printer
- ✓ Session on Virtual Lab

DAY 3

- ✓ Introduction to CAD-CAM software and their features
- ✓ Creating 2D and 3D designs using CAD software
- ✓ Generating toolpaths and G-code using CAM software and Fabrication
- ✓ Session on Virtual Lab

DAY 4

- ✓ Introduction to CNC routers and mills
- ✓ Setting up the CNC machine and workpiece
- ✓ Executing toolpaths and machining operations
- ✓ Session on Virtual Lab

DAY 5

- ✓ Understanding laser cutting and engraving technologies
- ✓ Designing for laser cutting and engraving using CAD software
- ✓ Material selection and settings for different applications
- ✓ Session on Virtual Lab

DAY 6

- ✓ Combining multiple prototyping techniques into hybrid projects
- ✓ Iterative prototyping and rapid design iteration
- ✓ Finalizing prototypes and enhancing their aesthetics
- ✓ Session on Virtual Lab