EXPERT DETAILS

MR. SUBRATA KUMAR MAJUMDAR
HOD & ASSISTANT PROFESSOR
MECHANICAL ENGINEERING

Mr. Subrata Kumar Majumdar completed his Master of Technology (M.Tech) in Production Technology from Kalyani Government Engineering College. With over 13 years of teaching experience, he has served in various diploma and B.Tech engineering colleges across West Bengal. Currently, he is pursuing a Ph.D. at CGCRI-CMERI, Durgapur, focusing on metal additive manufacturing. His research is concentrated on metal additive manufacturing, an area that explores advanced techniques in manufacturing using additive technologies.

COURSE IS FOR

Mechanical engineers
(ITI, Diploma and B.Tech.)

Technicians and operators working in these areas

Industrial designers working in these areas

Hobbyists and students with a basic understanding of manufacturing technologies

REGISTRATION FEES

Rs. 350/-

ABOUT THE COURSE

This intensive 5-day course is designed to equip you with comprehensive knowledge and hands experience in three key manufacturing technologies: 3D Printing, Abrasive Jet Machining, and Metal Inert Gas (MIG) Welding.

COURSE HIGHLIGHTS

In this 5 day course, participants will understand:

- Gain a deep understanding of 3D printing technologies, including FDM, SLA, and SLS.
- Learn the fundamentals of Abrasive Jet Machining, including equipment operation and material processing.
- Master the essentials of MIG Welding, from setup and operation to advanced welding techniques.

Integrate these technologies to create and fabricate complex projects, combining additive and subtractive manufacturing methods

CONTACT DETAILS :

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REGISTRATION

Scan the QR Code for Registration

www.icampus.setgoi.ac.in

SHORT TERM CERTIFICATE COURSE

“ADVANCED MANUFACTURING TECHNOLOGIES : A PRACTICAL COURSE IN 3D PRINTING, ABRASIVE JET MACHINING, AND MIG WELDING”

SETGOI DURGAPUR

SANAKA EDUCATIONAL TRUST'S GROUP OF INSTITUTIONS

A UNIT OF SANAKA EDUCATIONAL TRUST

MALANDIGHI, DURGAPUR - 713212

DEPARTMENT OF
MECHANICAL ENGINEERING

NBA ACCREDITED

Day 1

Introduction to 3D Printing

- Explore various 3D printing technologies and their applications.
- Learn about design considerations, CAD software, and slicing techniques.
- Hands-on practice in designing, preparing, and starting a 3D print.

Day 2

Practical 3D Printing and Post-Processing

- Hands-on operation of 3D printers, including calibration and material management.
- Post-processing techniques to enhance and finish printed models.

Day 3

Introduction to Abrasive Jet Machining (AJM)

- Understand the principles of AJM, including equipment setup and safety.
- Practical sessions on operating AJM machinery and performing material removal.

Day 4

Introduction to MIG Welding

- Learn the basics of MIG welding, including equipment setup, safety protocols, and welding techniques.
- Hands-on welding practice to develop essential skills and techniques.

Day 5

Advanced Techniques and Integration

- Delve into advanced techniques for 3D printing, AJM, and MIG welding.
- Engage in a project that integrates all three technologies, from design to fabrication.
- Present and discuss projects, receive feedback, and explore further learning opportunities.