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.

MR. RAHUL BHANDARI
ASSISTANT PROFESSOR
MECHANICAL ENGINEERING

Rahul Bhandari, Assistant Professor at Sanaka Educational Trust's Group of Institutions, is pursuing a PhD in Metallurgical and Materials Engineering at NIT Durgapur. With over 10 research papers published in top journals, his work focuses on alloys, composites, and advanced manufacturing. He has received MHRD and TEQIP-II scholarships and is skilled in various engineering software and modern technologies like machine learning and robotics.

COURSE IS FOR

- Engineering Students (ITI, diploma, undergraduate and graduate)
- Early Career Professionals (engineers and technicians)
- Current Technicians and Operators

REGISTRATION FEES

Rs. 350/-

ABOUT THE COURSE

This 5-day intensive course is designed to provide a comprehensive introduction to three critical areas of modern manufacturing: CNC lathe machining, robotic arms, and plastic injection molding. Ideal for professionals, engineers, and enthusiasts looking to gain foundational knowledge and hands-on experience, this course covers the essentials of each technology,explores their applications, and demonstrates how they can be integrated for advanced manufacturing solutions.

COURSE HIGHLIGHTS

In this 5-day course, participants will understand :

- Gain a solid foundation in CNC turning, robotic arms, and plastic injection molding, including their principles, components, and operations.
- Learn how to effectively integrate CNC turning, robotic automation, and plastic molding systems to create efficient and streamlined manufacturing processes.
- Develop Practical Skills: Acquire hands-on experience in operating CNC lathes, programming robotic arms, and setting up plastic injection molding systems through practical exercises
- 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

"Manufacturing Integration : CNC Turning, Robotic Arms and Plastic Injection Molding"

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 CNC Lathe

- Overview of CNC lathe machines, basic components, and programming fundamentals.
- Hands-on practice with simple CNC operations and machining.

Day 2

Advanced CNC Lathe Techniques

- Advanced CNC programming, CAD/CAM software introduction, and complex tool paths.
- Machining intricate parts and applying advanced techniques.

Day 3

Introduction to Robotic Arms

- Overview of robotic arms, basic components, and programming basics.
- Hands-on programming of robotic arms for simple tasks.

Day 4

Introduction to Plastic Injection Molding

- Fundamentals of plastic injection molding, key components, and materials.
- Practical experience with setting up and running an injection molding machine.

Day 5

Integration and Applications

- Morning: Explore integration of CNC lathe, robotic arms, and injection molding technologies. Review of advanced topics and trends.
- Afternoon : Collaborative project involving all three technologies, demonstrating their combined use in manufacturing.