About Electronics & ICT Academy at PDPM IIITDM Jabalpur

The Ministry of Electronics and Information Technology (MeitY), Government of India has instituted Electronics and ICT Academies in the year 2015. In the second phase, the academy at PDPM IIITDM Jabalpur aims at scalable training programmes in niche areas of Electronics and ICT for the development of the required knowledge base, skills and tools to unleash the talent of the Indian population. In addition to the faculty development programmes (FDPs) on fundamental and advanced topics in electronics, information and communication technologies, the Academy conducts customized training programmes for students, corporate sectors and research promotion workshops in emerging areas. The Academy is identified by the MeitY as the central hub of activities on training, internships, research, and consultancy programmes.

About PDPM IIITDM Jabalpur

PDPM IIITDM Jabalpur was established in 2005 with a focus on education and research in IT-enabled Design and Manufacturing. Since its inception, PDPM IIITDM Jabalpur has been playing a vital role in producing quality human resources for contribution to India's mission of inclusive and sustainable growth. The Institute offers undergraduate, postgraduate and PhD programmes in Computer Science and Engineering, Electronics and Communication Engineering, Mechanical Engineering, Design and PhD programmes in Mathematics, Physics and Literature. Further, the Institute offers an undergraduate programme in Smart Manufacturing. Under IIIT act, the Institute has been declared as an Institute of National Importance. The Institute campus is developed on 250 acres of land close to Dumna Airport, Jabalpur. The Institute is 10 kms from the main railway station and 5.5 kms from Dumna Airport, Jabalpur.

Faculty Development Programme

Metal Cutting and its Importance

The course is designed to provide the understanding of machining principles and its advancements such as CNC and smart manufacturing which is essential for enhancing teaching, research, and industry collaboration. The importance of machining lies in its contribution to quality manufacturing, technological innovation, and the development of skilled engineering professionals

Who can attend: The Programme is open to faculty from all colleges, universities, and technical and professional institutes. Students, fresh graduates, researchers, and industry personnel working in allied disciplines can also attend.

Important Dates:

Last Date of Online Registration: June 6, 2026

FDP Dates: June 08-12, 2026

Coordinator:

Dr. Gowthaman S, Mechanical Engineering Discipline, PDPM IIITDM Jabalpur, Email:gowtham@iiitdmj.ac.in

Contact us:

academy@iiitdmj.ac.in, eict@iiitdmj.ac.in
Mr. Durgesh Kushwaha : 7898670354

Faculty Development Programme

Metal Cutting and its Importance

June 8-12, 2026 (Online mode)

Electronics and ICT Academy, Phase II

An Initiative of
Ministry of Electronics and Information Technology,
Government of India

PDPM Indian Institute of Information Technology,
Design and Manufacturing, Jabalpur
Dumna Airport Road, Jabalpur 482005

Faculty Development Programme
Metal Cutting and its Importance

June 8-12, 2026 (Online mode)

RESOURCE PERSONS

Sessions will be led by experienced faculty members, distinguished domain experts from reputed academic institutions, and accomplished industry professionals. Some of our esteemed resource persons include:

- Dr. T Jagadeesha, NIT Calicut
- Dr. Vigneshwaran S, SRMIST Chennai
- Dr. Manoj Kumar, Bluestar India
- Dr. Uttam Kumar Mohanty, NIT Agartala
- Dr. Kishor Kumar Gajrani, IIITDM Kancheepuram
- Dr. Vipindas K, IIITDM Kurnool
- Dr. Gowthaman S, PDPM IIITDM Jabalpur

COURSE COORDINATOR

Dr. Gowthaman S,
Assistant Professor, ME
PDPM IIITDM Jabalpur
Email: gowtham@iiitdmj.ac.in
Mobile: +91-8086275392

Course Contents

- Mechanics, Simulations and Machining and Characterization of Difficult to Machine Materials for Aerospace and Marine Applications.
- Parametric Study of Tool Rotational Speed and Step Depth for Manufacturing Intricate Components through CNC machine
- Impact of Materials features on Machining behavior
- Laser Surface Modification of Magnesium Alloys for Orthopedic Bio Implants
- Significance of Residual stress analysis
- Machining for Sustainability: Pathways to Achieving SDG 2030
- Role of Non-Traditional Machining Processes in Next-Generation Manufacturing
- Importance of Surface texturing process
- Cryogenic Machining
- Hybrid Manufacturing and its importance
- Cutter nomenclature and its Impacts
- Advanced coating material for metal cutting
- Green Lubricants

Hands-On Sessions

- Molecular dynamics simulations
- Simulation on Machining
- Analysis of point defects on Materials features through simulation
- Analysis of grain size on Materials features through simulation

Programme Features

- Comprehensive Understanding of Metal Cutting Principles
- Hands-on Exposure to Modern Machining Techniques.
- Industry-Oriented Applications and Case Studies
- Certificate on successful completion with full access to the course material.

Registration Details

- Registration link – Please fill out registration using the following link: https://forms.gle/5xNsjHs3u6UGPvVy8
- Registration fee: 500 INR/- (For Online)
- Last Date for Registration: June 6, 2026

Online Payment Details

- **Internet banking**

Beneficiary Name	PDPM IIITDM Jabalpur
Bank Name	INDIAN BANK
A/C No.	50018692852
IFSC Code	IDIB000M694

- **UPI ID: iiitdmj@indianbk**