



PDPM IIITDM Jabalpur

E&ICT Academy, PDPM IIITDM Jabalpur

Online Summer Faculty Development Programme FDP Introduction to Robotics

February 09-20, 2026: Online live streaming

Jointly Organized by

IIT Roorkee



IIITDM Jabalpur



NIT Patna



IIT Kanpur



MNIT Jaipur



Course Contents and Schedule

- Module 1: Introduction and Fundamentals – Introduction to Robotics, Robot Anatomy, Robot Classification, Degree of Freedom
- Module 2: Grippers and Sensors: Types of gripper, gripper design, force analysis. Need for Sensors, Sensor Classification
- Module 3: Drives and Control for Robotics– Types of drives, actuators and their selection, types of controllers, closed-loop control system
- Module 4: Programming and Language for Robotics – Robot Programming, Introduction to various types of languages for robotics such as Python, ROS etc..
- Module 5: Related Topics in Robotics: Socio-Economic aspects of robotisation. Economical aspects for robot design, Safety for robot and standards
- Artificial Intelligence, AI techniques, Need and application of AI, New trends & recent updates in robotics.

Coordinators

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Co-Principal Coordinator, IIITDM Jabalpur

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RESOURCE PERSONS

The tentative list of speakers is:

- Prof. S.K. Saha, IIT Delhi
- Prof. P.M. Pathak, IIT Roorkee
- Prof. A. Ojha, IIITDM Jabalpur
- Prof. T. Sheorey, IIITDM Jabalpur
- Prof. Vijay Kumar Gupta, IIITDM Jabalpur

Registration Details

Registration link – Please fill in the registration form using the following link:

<https://forms.gle/eGRogfLtcEnpGK5h9>

Registration fee: INR 500/- for participants from Academia, INR 1000/- for participants from Industry USD 100 from participants outside India

Last Date for Registration: February 07, 2026

Contact Details

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Course Date and Time

[February 09 - 20, 2026, 03:00 PM to 07:00 PM]

Online payment details:

- Internet banking

Beneficiary Name: PDPM IIITDM Jabalpur

Bank Name: INDIAN BANK

A/C No. : 50018692852

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SCAN & PAY

