



# M.Tech

## Industrial Automation and Robotics

DESIGN Your Own  
CAREER

### Admission 2026-27 About the Department

- The department offers synergy of expertise in mechanical, electrical, computer and electronics to prepare industry-ready
- M.Tech in Industrial automation and Robotics is an interdisciplinary program that involves integrated understanding and learning of best of various engineering domain
- The course is designed to adapt to industry demands
- The course content finds application in Robotics system, Industrial automation, UAV, medical and agricultural robotics, manufacturing process etc.



## Programs Offered

**M.Tech.**  
Industrial Automation  
and Robotics



## Salient Feature of the Department

**14**  
Teaching Staff

**200+**  
Abroad Higher  
Studies

**350+**  
Research  
Publications

**650+**  
Alumni

**2**  
International &  
National MoU

**3**  
Student Club  
/Chapter

**10+** Start-ups

## About the Program

The program comprehend all facet of technologies involved in modern industry automation. The program provides in-depth knowledge in multiple disciplines such as programming languages, mechanical designing and robotics system components and its control. The graduates will have large opportunity to work in industries for designing and robotics and automation applications. The course further inspires candidates to conduct state-of-art research further opening up scopes in research and higher studies in broad range of topic.

## Key Highlights of the Program

- a) Cutting-Edge Curriculum:** Course Content is designed to make the curriculum compliant with industrial requirements in collaboration with experts from industry experts.
- b) Research opportunities:** Collaboration with various universities and research institutes for the exchange programs such as Cranfield University (UK), Strathclyde University (UK), Ecole Central De Nantes (France), University of Malta (Europe)
- c) Industry-Aligned Training:** Connect with industry personnel for proctoring, internship and the placement of the students.
- d) Holistic Growth:** With multiple student club and chapters for extra-curricular activities
- e) Scholarship:** For both GATE and Non-Gate students based on CGPA



### Prominent Recruiters



### Unique Research Facilities

- UR 5-6 axis manipulator arm
- JANATICS-based electro-pneumatic system
- Bosch Rexroth-based Electro-Hydraulic System
- Bosch Rexroth based industrial sensor kit
- SIEMENS PLCs and VFD
- PLC-based trainer systems such as Lift control, Bottle filling, traffic light control etc.
- SMC-based vertical revolving handling system with internal gripper
- PIC Microcontroller and ARM Development Board
- Raspberry Pi, Jetson nano and its interfacing modules
- National Instruments DAQ system (my RIO, ELVIS II+ etc.)
- Quanser based systems such as Qube-Servo and Myoelectric Board etc.
- MATLAB based 3-axis robotic trainer kit
- Interbotix Turtlebot 2i Mobile ROS Platform
- Khepera mobile robot
- Hexacopter Robot (Drones)
- Intel Real sense camera
- OCULUS RIFT, QUEST, HCT VIVE, HOLOLENS

### National and International Collaborations

- University of Malaya, Malaysia
- Hochschule Bremen City University of Applied Sciences, Germany
- ETMN Technology Pvt. Ltd.

### Students Club & Chapter



### Career Opportunities/Fields in various sector

- Robot kinematics
- Flexible manufacturing systems
- Mobile robots
- Advanced sensors
- Reliability engineering
- Computer integrated manufacturing
- Machine learning/ artificial intelligence in robotic application
- Modern control

### The MUJ EDGE

- NAAC A+, AICTE, and UGC Accredited Institution
- Enhances Interdisciplinary Research
- Highly Qualified Faculties
- State-in-Art Laboratories
- Mentor - Mentee scheme
- Incentive policy for research publication
- Excellent Infrastructure
- Scholarship for Students
- Student Travel Grant for International Internships
- Industry and International Collaborations

### Placements Statistics

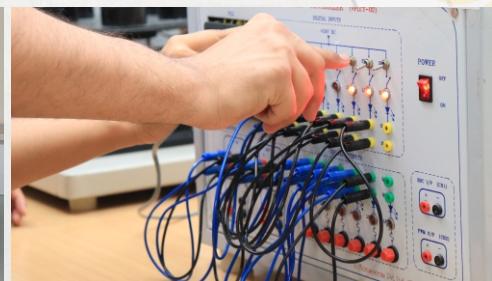
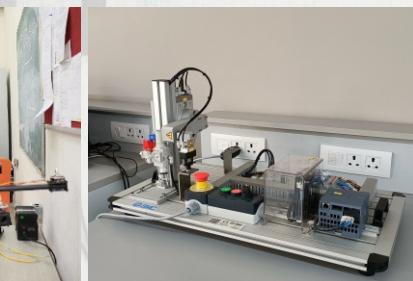
- Highest Package: 8.0 LPA
- Average Package: 5.5 LPA
- Dream Companies Visited: 9

### Eligibility

Bachelor's degree in Engineering/Technology in the relevant branch with minimum 50% marks or equivalent.

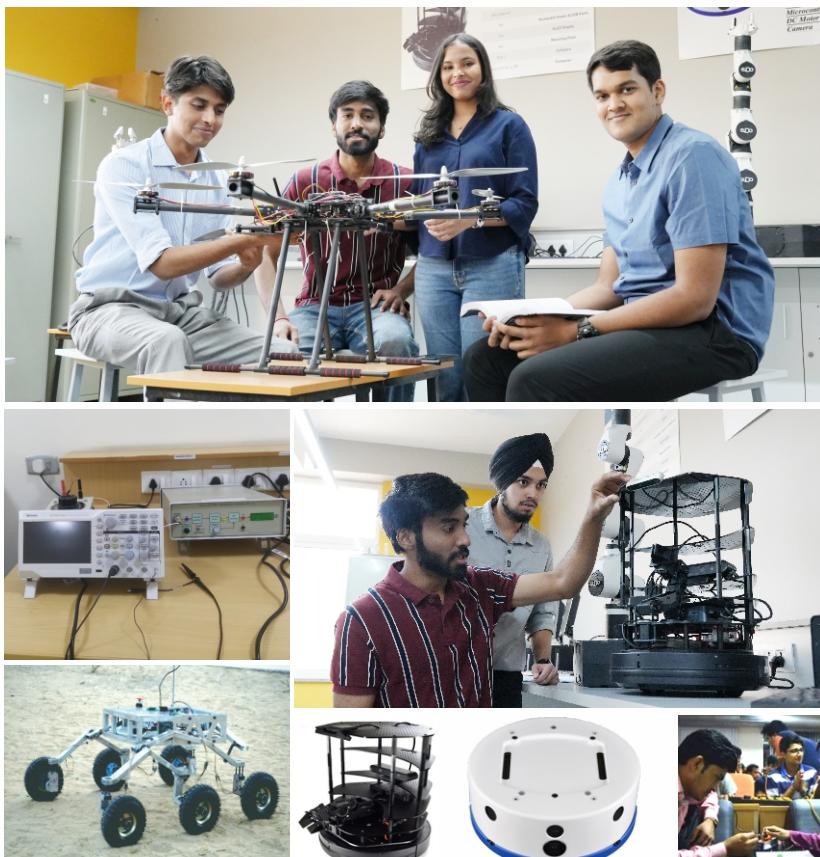
### Scholarships

**Scholarships available for GATE-qualified and meritorious non-GATE candidates**

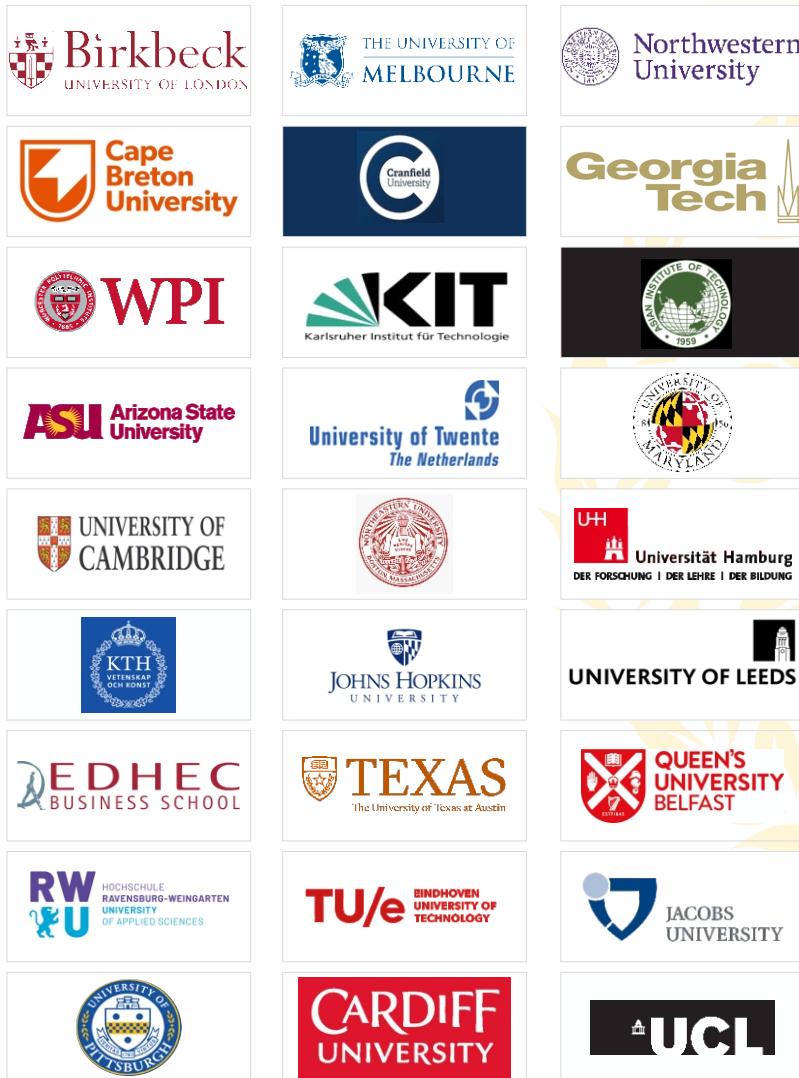


## Research Contribution

- Science & Engineering research board funded project, (SERB) Govt. of India
- Research papers in reputed international journal (SCI, SCOPUS) and International/ National Conferences
- Regular Patent filing grant
- Consultancy projects
- Research projects funded by govt. organization
- Books/Book Chapter- published in WoS/Scopus/Springer



## Students Abroad for Higher Studies



Major Universities associated with Alumni

## Proposed Courses (2026-27)

Teaching Scheme			Contact Hours/Week				End-Term Exam Duration		Relative Weightage%				
Sem	Code	Course Name	L	T	P	C	Th.	P.	CWS	PRS	MTE	ETE	PRE
I Semester	MA 6101	Applied Numerical Analysis	3	0	0	3	3	-	30	-	30	40	-
	MCE6170	Research Methodology	3	0	0	3	3	-	30	-	30	40	-
	MCE6102	Robotics	3	0	0	3	3	-	30	-	30	40	-
	MCE6103	Advance Control Theory	3	0	0	3	3	-	30	-	30	40	-
	MCE6104	Additive Manufacturing	3	0	0	3	3	-	30	-	30	40	-
	MCE6105	Intelligent systems	3	0	0	3	3	-	30	-	30	40	-
	MCE61**	Program Elective - I	3	0	0	3	3	-	30	-	30	40	-
	MCE6130	PLC Lab	0	0	4	2	-	2	-	60	-	-	40
	MCE6131	Pneumatics and Hydraulics Lab	0	0	4	2	-	2	-	60	-	-	40
	MCE6132	Design and Modelling Lab	0	0	2	1	-	2	-	60	-	-	40
			Total	21	0	10	26	Total Contact Hours (L + T + P) = 31					
Teaching Scheme			Contact Hours/Week				End-Term Exam Duration		Relative Weightage %				
Sem	Code	Course Name	L	T	P	C	Th.	P.	CWS	PRS	MTE	ETE	PRE
II Semester	MCE6201	Artificial Intelligence	3	0	0	3	3	-	30	-	30	40	-
	MCE6202	Drives and Automation	3	1	0	4	3	-	30	-	30	40	-
	MCE6204	Sensor and control systems	3	1	0	4	3	-	30	-	30	40	-
	MCE6203	Machine vision	3	0	0	3	3	-	30	-	30	40	-
	MCE62**	Program Elective - II	3	0	0	3	3	-	30	-	30	40	-
	MCE62**	Program Elective - III	3	0	0	3	3	-	30	-	30	40	-
	*****	Open Elective	3	0	0	3	3	-	30	-	30	40	-
	MCE6230	Robotics Lab	0	0	2	1	-	2	-	60	-	-	40
	MCE6231	Drives and Automation Lab	0	0	2	1	-	2	-	60	-	-	40
	MCE6232	Seminar	0	0	2	1	-	1	100	-	-	-	-
			Total	21	02	06	26	Total Contact Hours (L + T + P) + OE = 29					

**List of Program Elective - I**

- MCE6140 Drone Modelling and Control
- MCE6141 Signals and Systems
- MCE6142 Cyber physical system
- MCE6143 Mobile Robots

**List of Program Elective - II**

- MCE6240 Wireless Sensor Networks
- MCE6241 Building Automation
- MCE6242 Robot Path Planning and Control
- MCE6243 Optimal Control

**Management**

- MCE6253 Drone Applications
- MCE6254 Smart Manufacturing

**List of Program Elective - III**

- MCE6251 MEMS and NEMS
- MCE6252 Production and Operations

**List of Open Elective**

- MCE6001 Fundamental of Robotics
- MCE6002 Automation in Industry
- MCE6003 Sensor Technologies



## Admission Process



Application form initiated through our website  
[admissions.jaipur.manipal.edu](http://admissions.jaipur.manipal.edu)



Applicants must submit a completed application form with relevant documents within the due date.

## Hostel Details

Q [goodhostspaces.com](http://goodhostspaces.com) ☎ 08069122800  
info.jaipur@goodhostspaces.com

## Counsellor Contact Details

📞 8690987137



Q [jaipur.manipal.edu](http://jaipur.manipal.edu)



Our counsellors will guide candidates through the admission process, which is as per regulatory requirements.



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(University Under Section 2(f) of the UGC Act)

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