



MANIPAL UNIVERSITY
JAIPUR



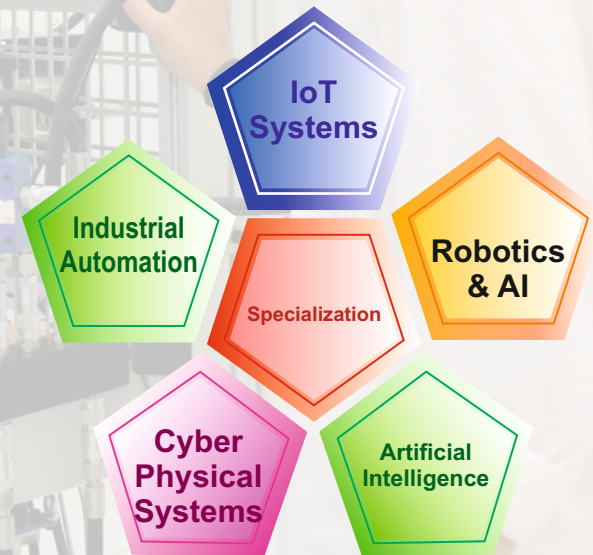
M.Tech

Industrial Automation and Robotics

DESIGN Your Own
CAREER

Admission 2024-25 About the Department

- The department offers synergy of expertise in mechanical, electrical, computer and electronics to prepare industry-ready graduates.
- 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 at MUJ 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

Focused Areas

Robotics & AI

Drone Technology

Industrial
Automation

Salient Feature of the Department

14

Teaching Staff

110+

Abroad Higher
Studies

230+

Research
Publications

500+

Alumni

7

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

- Cutting-Edge Curriculum:** Course Content is designed to make the curriculum compliant with industrial requirements in collaboration with experts from industry experts.
- 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)
- Industry-Aligned Training:** Connect with industry personnel for proctoring, internship and the placement of the students.
- Holistic Growth:** With multiple student club and chapters for extra-curricular activities
- Scholarship:** For both GATE and Non-Gate students based on CGPA

Current Research Scenario in Robotics Lab



Equipments available for advanced research in Robotics Lab



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 Malta
- University of Johannesburg
- Rajiv Gandhi Center for Advanced Technology, Jaipur (SDC)
- Infosuccess 3D, Greece (Industry)
- Swayyatt Robots, Indore (Industry)
- Vision Automation, Agra (Industry)
- Smarden Automation, Haryana (Industry)

National and International Collaboration for Collaborative Research



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 (Why MUJ)

- NAAC A+, AICTE, and UGC Accredited Institution
- Enhances Interdisciplinary Research
- Highly Qualified Faculties
- State-in-Art Laboratories
- Individual Attention to Students
- PRAISE incentive policy for research publication
- Excellent Infrastructure
- Scholarship for Students
- Student Travel Grant for International Internships
- Industry and International Collaborations

Placements Statistics

- Highest Package: 12 LPA
- Average Package: 4.2 LPA
- Dream Companies Visited: 13

Eligibility

The candidates must have passed BTech/BE/AMIE in the respective/related branch of Engineering with minimum 50% marks in aggregate or equivalent CGPA.

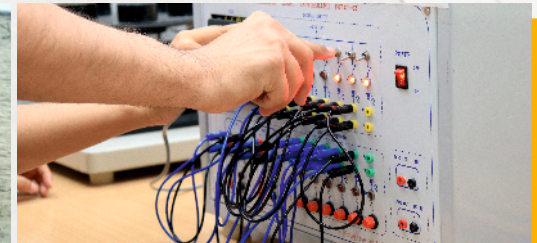
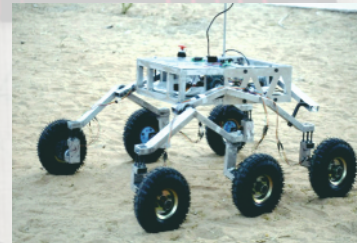
Scholarships

Under the Endowment Fund Scheme Scholarships of Rs.15,000/- per month is provided to GATE qualified students.

The stipend in form of scholarships will be awarded to students in two forms which are as follows) –

- Students enrolled with qualifying exam percentage from 60% to 70% will be awarded with a scholarship amount of Rs 5,000/ Month for 10 months.
- Students enrolled with qualifying exam percentage 70% and above will be awarded with a scholarship amount of Rs 10,000/ Month for 10 months.
- Students enrolled with qualifying exam percentage from 60% to 70% will be awarded with a scholarship amount of Rs 5000/ Month for 10 months.
- The enrolled students' services will be utilized in teaching learning aspects and forms against scholarships

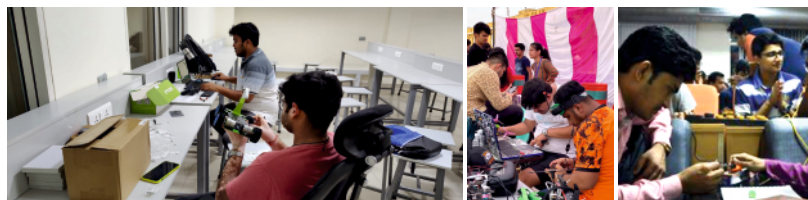
To continue to get the scholarship, the student should maintain a CGPA of 7.5 or above, failing which the scholarship for the next year will be withdrawn





Research Contribution

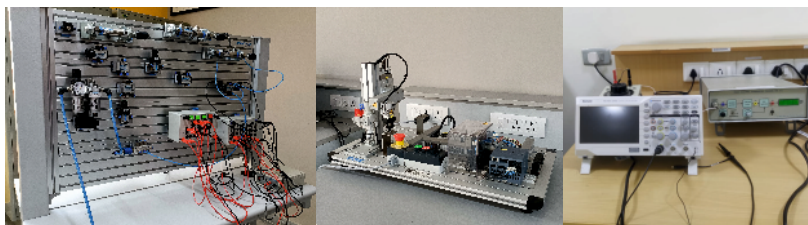
- Science & Engineering research board funded project, (SERB) Govt. of India
- Research papers in reputed international journal (SCI, SCOPUS) and International/ National Conferences
- Regular Patent filing grant
- Consultancy projects
- Research projects funded by govt. organization
- Books/Book Chapter-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



Development of Soccer Bot & Drone Race



Hands in Robotics Lab



Available equipments for advanced research in Pneumatic Lab

Students Abroad for Higher Studies



Major Universities associated with Alumni



MANIPAL UNIVERSITY
JAIPUR

Admission Process



Application form initiated through our website
admissions.jaipur.manipal.edu



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



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



Please visit the FAQ section on our website to
know more about the admission process.

Hostel Details

📧 goodhostspaces.com ☎ **08069122800**
info.jaipur@goodhostspaces.com

Counsellor Contact Details

Ms Meenakshi
☎ **8690987137**



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MANIPAL UNIVERSITY
JAIPUR
(University Under Section 2(f) of the UGC Act)

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