B.Tech
Mechatronics Engineering

DESIGN Your Own
Degree & Career

- Mechatronics is a synergy of expertise in mechanical, electrical, computer, and mechatronics to prepare industry-ready.

- B. Tech in Mechatronics Engineering is an interdisciplinary program that involves integrated understanding and learning of engineering domains viz. Mechanical, Electrical, Electronics & Computing.

- The courses of Mechatronics are designed to adapt the futuristics trends and industry demands.

- Mechatronics domain finds applications in Robotics Systems, Industrial Automation, Cybernetics, UAV, Smart Systems, Medical Robotics, Autonomous Vehicle, Space Research and many more.

Specialization
- IoT Systems
- Robotics & AI
- Artificial Intelligence
- Cyber Physical Systems
- Industrial Automation

Program Offered

B.Tech.
Mechatronics

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

Key Highlights of the Program

- Interdisciplinary curriculum
- Project based learning
- Industry grade laboratories- IOT Fab Lab, 3D Printing Farm Lab, Robotics Lab, Industrial Automation Lab, PLC Lab, Microcontroller Lab
- Student clubs and Technical chapters
- Opportunities for incubation and start-ups
- Financial support to participate in conferences/workshops
- Incentives for paper publications
- Students exchange program with leading international universities
- Strong Alumni base

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Prominent Recruiters

AL MALKI TRADING & CONTRACTING CO. | ACCURATE AUTO INDUSTRIES | Ace Brass Industries | TATA CONSULTANCY SERVICES | ANCIT IoT LABS

Phononics | cadence | Intensity | BHARATE | Golcha Group | IELTS

LARSEN & TOUBRO | TATA CONSULTANCY SERVICES | DXC TECHNOLOGY | UNO MINDA | Cipla

BOSCH | SECURE | OMAX | Mahindra | KALYANI

AVL | JSW Steel | IntelliPaat | Deloitte. | GOLCHA ASSOCIATED

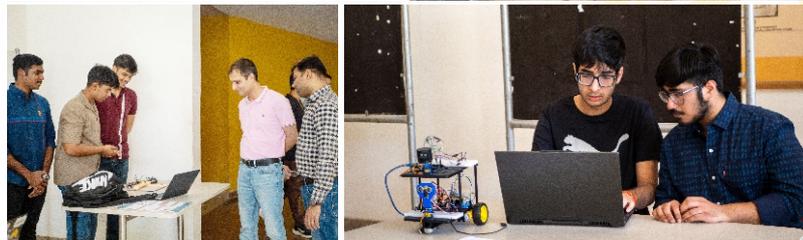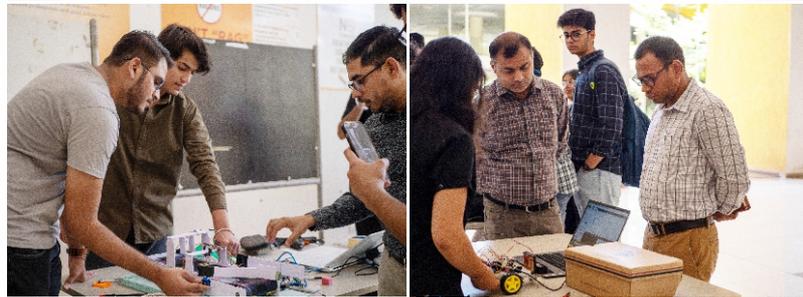BRISTLECONE | Mahindra | Addverb Technologies | accenture | Cognizant | SUZUKI | PIE INFOTECH

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 Devlopment 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

ISA International Society of Automation — Manipal University Jaipur Student Section | AUTONOMOUS INITIATIVE THE ROBOTICS CLUB
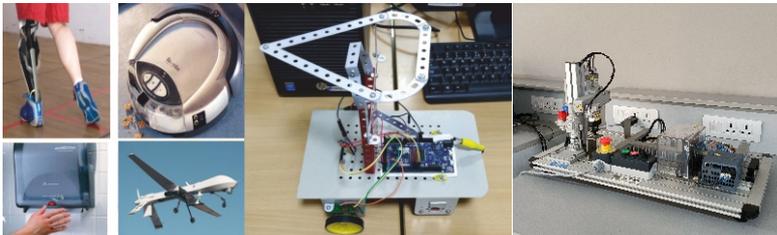
Career Opportunities/Fields in various sector

- Industry 4.0
- AI enabled designing
- IoT Systems
- Cyber physical systems
- Unmanned Vehicle Technology (UAV, Drone Technology)
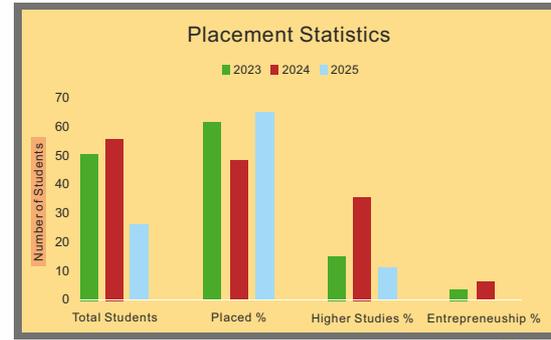- Automation Computing (Hardware & Software)

The MUJ EDGE

- NAAC A+, AICTE, and UGC Accredited Institution
- Enhances Interdisciplinary Research
- Highly Qualified Faculties
- State-in-Art Laboratories
- Mentor-Mentee scheme
- Incentives 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

Students Placement, Higher Studies and Entrepreneur

Placement Statistics (bar chart: 2023, 2024, 2025 — categories: Total Students, Placed %, Higher Studies %, Entrepreneurship %; y-axis Number of Students)

Eligibility

The candidate must have passed 10+2 or A Level or IB or American 12th grade or equivalent examination with Physics, Mathematics and English as Compulsory subjects, along with any one of Chemistry or Computer Science or Biotechnology or Biology or Statistics or Engineering Drawing as optional subject for admission to B Tech, with minimum of 60% marks in Physics, Mathematics, and the optional subject, put together.

Scholarships

- TMA Pai Engineering Scholarships
- Scholarships for Lateral Entry (B. Tech.)
- TMA Pai Merit Scholarships
- Rajasthan Merit Scholarships
- Financial Assistance for Sibling(s)
- Scholarship for "Differently- abled" Students
- Scholarships for wards of Martyrs of Defence Personnel / Para Military Forces
- Scholarships for the wards of Single Mother & Orphan Child

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
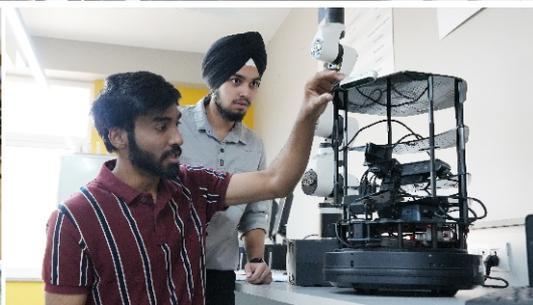
Students Abroad for Higher Studies
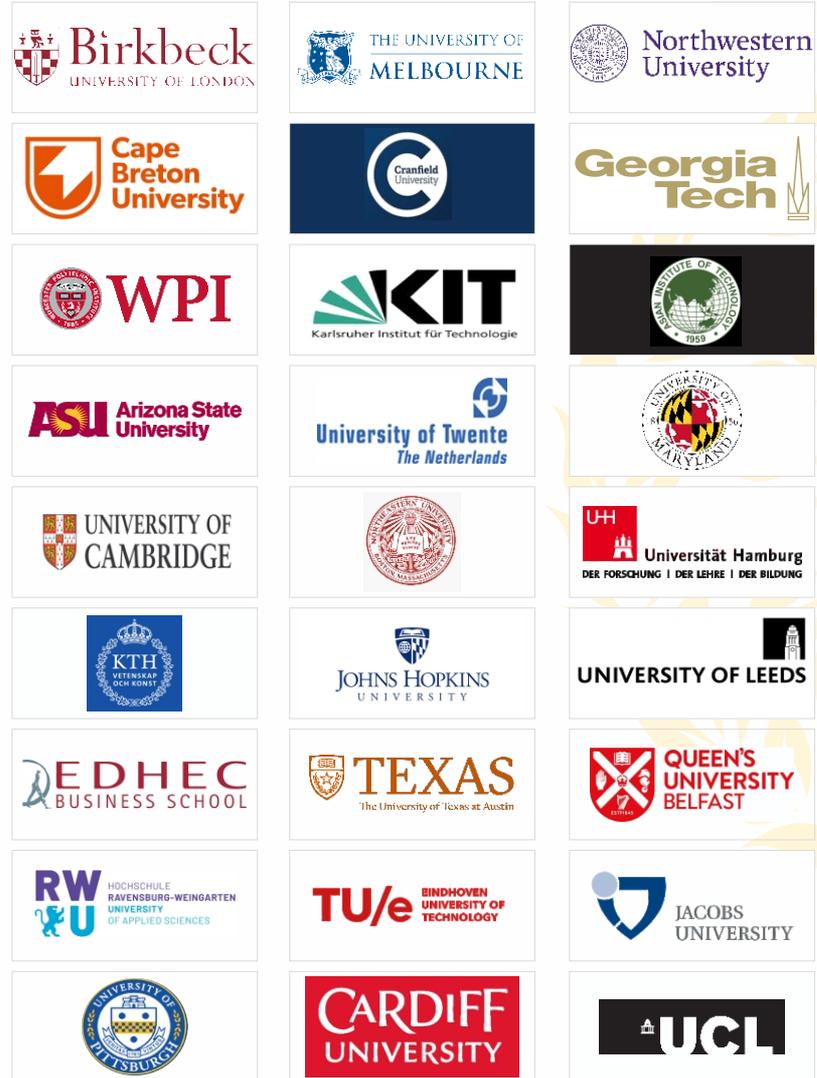
Major Universities associated with Alumni

Proposed Courses (2026-27)

Core Courses

MAS1001	Calculus & Matrices
ECE1002	Electronic Circuits
MEE1008	Basic Mechanical Engineering
CSCXXXX	Problem-Solving Using Computers
DOA1001	Universal Human Values
MAS1002	Computational Mathematics
CHY1002	Environmental Studies
EEE1001	Electrical Technology
CIV1002	Engineering Material and Mechanics
MBBXXX/MEEXXXX	Principles of Management/ Engineering Economics
MCE2101	Linear Integrated Circuits
MCE2102	Embedded Controllers
MCE2103	Strength of Materials
MCE2104	Manufacturing Technology
MCE2105	Kinematics and Dynamics of Machines
MBBXXX/MEEXXXX	Principles of Management/ Engineering Economics
MASXXXX	Statistics & Probability
MCE2203	Sensors and Actuators
MCE3101	Design of Machine Elements
MCE3102	Robotics
MCE3105	Mobile Robots
MCE3106	Modern Control Theory
MCE3201	Drives and Automation

Program Electives

MCE2240:	Digital System Design
MCE2241:	IOT Systems
MCE3140:	Finite Element Methods
MCE3141:	Signals and Systems
MCE3242:	Additive Manufacturing
MCE3243:	Cyber-Physical System
MCE3252:	Collaborative Robots
MCE3253:	Intelligent Systems
MCE3263:	MEMS and NEMS
MCE3264:	Artificial Intelligence
MCE4143:	Machine Vision
MCE4144:	Production and Operations Management
MCE4153:	Industrial IOT
MCE4154:	E-Mobility

Open Electives Courses

MCE0001:	Fundamental of Robotics
MCE0002:	Automation in Industry
MCE0003:	Introduction to Building Automation
MCE0004:	Sensor Technologies
MCE0005:	Smart Agriculture
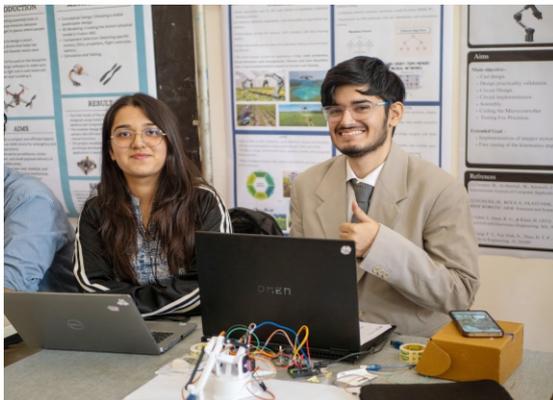
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Admission Process

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.

FAQ

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

More about the Department
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Department Social Media Connect

Hostel Details

goodhostspaces.com   08069122800
info.jaipur@goodhostspaces.com

Counsellor Contact Details

8690987137

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

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