



MANIPAL UNIVERSITY
JAIPUR



M.Tech. Electronics Engineering (VLSI & Embedded Systems Design)

Design your own
Degree and Career

Admission Booklet 2026-27

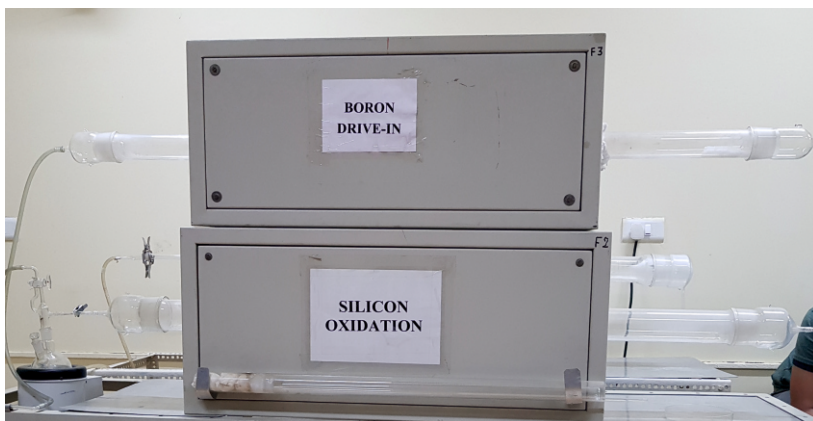
About the program

- Industry ready curriculum
- Research labs funded by Govt. organization
- Well established labs with leading EDA tools.
- MoU with renowned Universities and Industries
- Student clubs and Technical chapters for overall development
- Dedicated Mentorship
- Exposure to industries through industrial visits
- IAESTE student exchange program provides international internship to the students.
- Guest Faculties from industries and consultancy to industries.
- Flexible scheme based on NEP



Key Highlights of the Program

- The India Semiconductor Mission (ISM) an initiative by Govt of India for growth of VLSI will help to have more placement opportunities in India
- The program is designed in line with the industry feedback and catering the needs of industry. It also includes the feedback of the stakeholders (Industry & Alumni)
- The program includes hands-on experience on industry standard EDA Tools
- Govt. sponsored VLSI lab, Nonlinear optics research lab.
- Various technical student chapters and clubs
- Students can take their Major Project in VLSI Industries
- Association of VLSI Industry/Industries with this program
- Experienced & Skilled Faculty
- Advance Labs equipped with leading EDA tools
- Choice Based Credit System (CBCS)
- Student recognition for academics and research.



Semiconductor Fabrication Lab

Salient Feature of the Department

33 Teaching Staff	135+ Abroad Higher Studies	700+ Research Publications
1200+ Alumni	10 International & National MoU	90 Student Club /Chapter

Internship/Placement opportunities in Industries

- Synopsys
- Mentor Graphics
- Cadence
- Microsoft
- Qualcomm
- Intel Technologies
- HCL Corporation
- einfochips
- d-Matrix
- Texas
- Synapse Design
- Infineon Technologies
- AMD Xilinx
- Samsung
- NXP Semiconductors
- ST Microelectronics
- Marvel Technologies
- SoCTeamup Semiconductors Pvt Ltd
- Truechihp Solutions, Noida
- Micron Semiconductor Technology India

MoUs with Research Organizations and Industries

- eInfochips, Ahmedabad
- Semi-conductor Laboratory, SAS Nagar
- Truechip Solutions, Noida
- Advanced Level Telecommunication Training Centre, Ghaziabad
- Secure Meters Ltd, Udaipur
- Samara National Research University
- University of Quebec
- SoCTeamup Semiconductor Pvt. Limited
- VLSI Society of India
- CEERI, Pilani
- Midwest Regional Chapter of India Electronics and Semiconductor Association (IESA)

Unique Research And Lab Facilities

- Semiconductor Device Fabrication Lab
- C2S Meity sponsored VLSI Lab under (chip to startup) scheme
- Laboratory for Energy Applications and Functional Materials
- Embedded System Lab
- DRDO sponsored lab for Nonlinear Optics⁺
- Communication Lab
- Signal Processing Lab
- Microprocessors & System Design Lab
- Electronic System Design Lab
- Electronics Simulation Lab: CST, Microwave Studio, MATLAB and Ansys HFSS

The MUJ EDGE (Why MUJ)

- NBA, NAAC A+, AICTE, and UGC Accredited Institution
- Academic excellence through world class curriculum, delivery & feedback
- Various scholarships for meritorious students offered by MUJ
- Excellent placements and internships
- Best-in-class academic, hostel and sport facilities
- Best-in-class infrastructure
- Qualified and Experienced faculty
- State-of-the-art Laboratories equipped with latest technology
- Student Travel Grant for International Internships
- Industry and International Collaborations
- Student - Conference Grant
- Student - Publication Grant

Eligibility

The candidate must have passed B Tech/BE/AMIE or equivalent in Electronics Engineering/ Electronics and Communication/ Electronics and Telecommunication/ Electrical Engineering / Computer Science / Electronics and Instrumentation or related disciplines/ MSc in Electronics /Physics with Specialization in Electronics / Computer Science/IT with a minimum of 50% marks in aggregate or equivalent CGPA.

Core Competencies

- System Verilog Design and Verification
- Semiconductor Device
- System on Chip (SoC)
- Application oriented Design (ASIC/FPGA)
- MOS VLSI Design
- Mixed Signal IC Design
- Physical Design
- IC Layout and Design
- Memory Design
- Computer Architecture and Processor Design
- Optical Sensors
- Microwave and Antenna

Research Areas

- Nanodevices & modelling
- Verification & Testing
- Fuel Cells
- Hydrogen Production
- Supercapacitor
- IC design & layout
- Low Power VLSI
- High Speed VLSI Design
- Mixed Signal IC Design
- MEMS devices
- Optical Sensors
- Memory Design

Career Opportunities

- ASIC frontend designer
- FPGA frontend designer
- ASIC physical design engineer
- AMS (Analog Mixed Signal) designer
- Library developer
- IP design engineer Verification Engineers
- Front-end verification engineer
- FPGA Back-end verification engineer
- Physical design verification engineer
- AMS verification engineer
- EDA tool validation engineer
- IP verification engineer
- Board validation engineer
- EDA/CAD Engineers

Key Student Achievements

- Saloni and Angel proudly represented Manipal University Jaipur in Basketball events in inter-university competitions and bagged top places.
- Bhaskarjya Nayananju bagged III prize at BOT'S GAMBIT 2025 organized by IEEEERAS and Utsav Sarkar represented MUJ at Technex '25, the Annual Techno-Management Fest of IIT (BHU), Varanasi.
- Agrima Nilesh Joshi cleared NCC Certificate-B examination, Ministry of defence, Government of India
- Kankan Deka, received \$500 Travel grant to represent IEEE MTT-s and APS chapter MUJ at MAPCON 2025 in Kochi, Kerala.
- Abhinav Kumar has received OPTICA Travel Grant (Optical Society of America) to attend SCOPOSIS 2025 for presenting his research.
- Anushka Sharma received B. Tech. initiative travel grant award by IEEE for participating in MAPCON-2025. GSN Jeevani, Aditya Gupta, Anushka Sharma won cash prize in Project Expo 3.0, 2024.
- Raju Yadav went for a long internship at ISRO, Ahmedabad.

Scholarships

- Tuition Fee Concession for MUJ Graduates
- Scholarship/ Preference in admissions for Local Region Students (PG Program)
- Merit Scholarships for PG students
- Smt. Vasanti R Pai PG Merit Scholarship/Fellowship

Department Alumni in VLSI Industries

Saumya Shah
Micron Semiconductor
Technology India



“My journey in the ECE department has been nothing short of extraordinary! The faculty members are not just highly qualified, but they create a dynamic and engaging learning atmosphere. The collaborative environment sparks lively discussions and encourages partnerships among students. Also, the curriculum is thoughtfully crafted and constantly updated with the latest ideas and technologies. This experience has been pivotal in shaping both my academic path and professional aspirations.”

Ishan Bhardwaj
INFOSYS



“As an ECE student, learning programming presented challenges, but the unwavering support from the ECE department made it manageable. The rigorous curriculum and hands-on projects built my confidence in programming. MUJ’s collaborative culture and events across branches eased my transition into the programming environment. Participating in hackathons, workshops, and internships provided practical experience, preparing me for the professional world. Despite the ups and downs, I remained committed to my goals, thanks to the robust support system at MUJ. I am deeply grateful for the opportunities and encouragement that have shaped my path to success.”

Utkarsh Raj
SoCTeamup Semiconductors
Pvt. Ltd.



“ECE department in MUJ provided a strong academic foundation and valuable opportunities for learning and growth. With well-equipped labs, good resources, and research facilities, it created a supportive environment for academic and technical development. The guidance from faculty and focus on practical learning greatly contributed to my overall journey.”

Harsh Vardhan
Cadence



“The strong foundation in VLSI and digital design at Manipal University Jaipur, along with hands-on exposure to advanced VLSI tools, has been invaluable in building my concepts and adapting to industry practices. MUJ’s industry-oriented curriculum and practical learning approach have played a crucial role in shaping my career, and I am grateful for the guidance of my professors and the resources provided.”

Vaishnavi Parihar
Cadence



“My journey with ECE at Manipal University Jaipur has been a transformative experience. The faculty’s expertise and dedication have guided me towards becoming a more analytical thinker and a confident problem-solver. The well-rounded curriculum and opportunities to participate in conferences have not only deepened my understanding of electronics but also ignited a passion for continuous learning. Here, I’ve learned to embrace challenges with resilience, shaping both my academic path and personal growth into a future I’m excited to explore.”

AISHANI
Synopsys



“MUJ was where I got introduced to VLSI, the world of semiconductors. It provides ample of opportunities to grow in your field of interest along with the guidance, constant support and encouragement from professors.”

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.

Hostel Details



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

Counsellor Contact Details

Mr Mahipal Singh Rathore

☎ **8306990713**

For curriculum regarding please visit:

<https://jaipur.manipal.edu/fosta/b-tech-vlsi-design.php>



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

FAQ

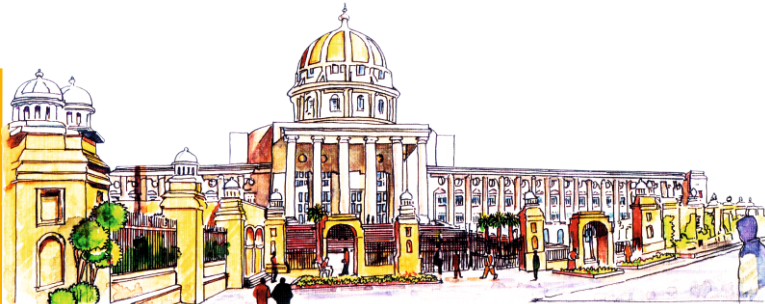
Please visit the FAQ section on our website to know more about the admission process.



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MANIPAL UNIVERSITY
JAIPUR

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

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