

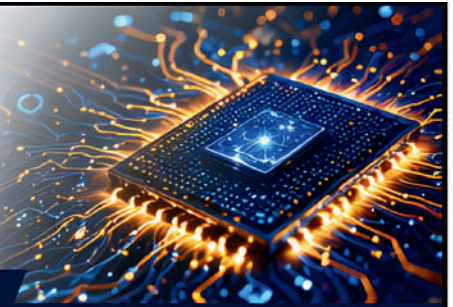


MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

Heritage of Excellence. Future of Innovation.

MATERIALS RESEARCH CENTRE

Pioneering Research. Enabling Technology.



NEWLY LAUNCHED

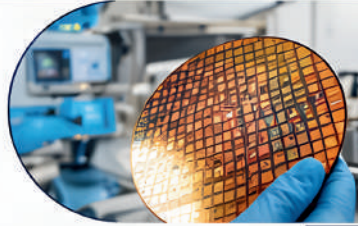
M. TECH. in SEMICONDUCTOR MATERIALS AND DEVICES

Engineering the Next Generation of Semiconductor Technologies

ADMISSIONS OPEN
2026-27

PROGRAM OVERVIEW

The M. Tech. program in Semiconductor Materials and Devices is a multidisciplinary program that integrates materials science, device physics, fabrication technology and characterization to address the growing demands of the semiconductor industry and research.



Cutting-edge Curriculum

Blend of core theory, advanced courses and hands-on training in semiconductor technologies.



Industry Connections

Collaborations with leading companies and research organizations for internships, projects and placements.



Advanced Research Facilities

Access to state of art Micro/nano fabrications, thin film growth and characterization labs.



Future-Ready Skills

Training in device simulation, AI/ML in materials, reliability engineering and emerging semiconductor domains.



Research & Innovation

Strong emphasis on research, internships, industry projects and technology development.



Global Exposure

Opportunities for conferences, academia-industry interactions and international collaboration.

WHY JOIN MNIT JAIPUR?



Strong Industry Connect With Opportunities For internships



Globally Recognized Faculty with High Impact Research



Modern Infrastructure and Green Campus



Vibrant Research Ecosystem and Innovation Culture



Excellent Placement Record and Alumni Network



WHO CAN APPLY?

B.E./B.Tech. or Equivalent in Electronics / Electrical / Metallurgical and Materials / Instrumentation / Mechanical / Chemical / Nanotechnology / Materials / Related areas with valid GATE score.

Or

M.Sc. in Physics / Applied Physics / Chemistry / Applied Chemistry / Materials Science / Nanotechnology / Electronics with valid GATE score.

Additionally M. TECH. (SELF-FINANCED) (FULL TIME WITHOUT ASSISTANTSHIP), (FULL TIME SPONSORED/PART-TIME SPONSORED) seats are available.



CURRICULUM HIGHLIGHTS

- ✓ Semiconductor Physics & Device Fundamentals
- ✓ Semiconductor Materials & Thin Film Technology
- ✓ Microfabrication & Nanofabrication Techniques
- ✓ Optoelectronic Devices
- ✓ Characterization of Materials & Devices
- ✓ Reliability, Testing & Failure Analysis
- ✓ Electives in Emerging Areas & Research Projects



OUR DISTINGUISHED FACULTY



Dr. BHAGWATI SHARMA



Dr. NISHA VERMA



Dr. VIKAS SHARMA



Dr. SANDHYA VERMA



Prof. KANUPRIYA SACHDEV



Prof. RAGINI GUPTA



Dr. NEETU KUMARI



CAREER OPPORTUNITIES

- Semiconductor Manufacturing & Technology
- Device Design, Testing & Reliability
- R&D in Electronics, Photonics & MEMS
- Process, Equipment & Materials Engineering
- Academia, Research & Higher Studies (Ph.D.)
- Start-ups & Entrepreneurial Ventures



TAKE THE NEXT STEP TOWARDS THE FUTURE

EXPLORE MORE



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