



Maulana Azad National Institute of Technology Bhopal

(An Institute of National Importance)

DEPARTMENT OF PHYSICS

M.TECH in SEMICONDUCTOR & QUANTUM TECHNOLOGIES



APPLY THROUGH CCMT 2026

CENTRALIZED COUNSELLING FOR M.TECH./ M.ARCH./ M.PLAN. ADMISSIONS (CCMT)

Visit official CCMT website

<https://ccmt.admissions.nic.in/>

Choose MANIT Bhopal and Program



PROGRAM OVERVIEW

The program offers advanced knowledge and hands-on experience in semiconductor physics, functional materials, quantum devices, and emerging technologies.



KEY AREAS OF STUDY



Semiconductor Physics and Device Engineering



VLSI & Embedded Systems



Functional Materials, Advanced Devices and Technologies



Quantum Computing, Quantum Machine Learning and Deep Learning



PROGRAM HIGHLIGHTS

- Industry relevant curriculum aligned with National Quantum Mission and India Semiconductor Mission
- Hands-on training in state-of-the-art labs and research facilities
- Interdisciplinary learning with research exposure
- Mentorship from experienced faculty and experts
- Opportunities for Ph.D. and higher studies



IMPORTANT DATES

As per CCMT 2026 schedule

*Please visit the official CCMT [website](#) for updates



CAREER OPPORTUNITIES

- Material Scientist, Semiconductor Design & Process Engineer
- VLSI & Embedded Systems Engineer
- R&D Scientist in Academia & Industry
- Higher Studies (Ph.D. in India & Abroad)
- Quantum Computing Researcher



ELIGIBILITY

Candidates with a B.E./B.Tech. or M.Sc. degree in relevant disciplines and a valid GATE score in subjects such as Engineering Sciences, Physics, Chemistry, Biotechnology, Computer Science, Electronics, Electrical, Civil, Mechanical, Chemical, Metallurgical, Mining, Instrumentation, Environmental Science & Engineering, Production & Industrial Engineering, and Petroleum Engineering are eligible.



STATE-OF-THE-ART FACILITIES

Advanced Semiconductor Device Lab

Quantum Computing & Programming Lab

Central Research Facility

High Performance Computing Facility



FOR ADMISSION QUERIES: Head, Department of Physics, Maulana Azad National Institute of Technology Bhopal, 462003, Madhya Pradesh, India



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<https://www.manit.ac.in/content/physics-department>

Admissions Open 2026