Maulana Azad National Institute of Technology
Bhopal, Madhya Pradesh, India

PLACEMENT BROCHURE(2025-2026)

DEPARTMENT OF MATERIALS & METALLURGICAL ENGINEERING

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ABOUT MANIT

Maulana Azad National Institute of Technology (MANIT), Bhopal, established in 1960 and recognized as an Institute of National Importance, is one of India's premier institutions for engineering, architecture, planning, and management. Set on a 650-acre green campus in the heart of Bhopal, MANIT offers a dynamic learning environment with world-class infrastructure, expert faculty, and strong industry ties. It emphasizes interdisciplinary learning and cutting-edge research, preparing students to tackle global challenges with innovation and confidence. Beyond academics, the institute fosters holistic development through vibrant campus life, major events like Technosearch and Maffik, active student clubs, and robust sports and entrepreneurial opportunities. MANIT continues to be a launchpad for future leaders, empowering students to make a meaningful impact across industries and communities.

Vision

To evolve as a globally recognized institution, respected for academic excellence, innovation, and societal impact where knowledge meets purpose, and education leads to transformation.

Mission

To foster a collaborative and inclusive learning environment that promotes innovation, interdisciplinary research, and industry partnerships, while nurturing creativity, critical thinking, and entrepreneurship.

FROM THE INSTITUTE

MESSAGE FROM THE DIRECTOR

Dr. Karunesh Kumar Shukla
(Director, MANIT Bhopal)

Established in 1960, MANIT is a beacon of excellence in technical education and research. Our commitment to nurturing the next generation of technologists and global leaders is unwavering. With state-of-the-art research infrastructure and a dedication to academic excellence, MANIT ensures graduates are equipped to excel in today's dynamic business landscape. The success stories of our alumni across diverse sectors attest to the quality of education and opportunities offered. Your esteemed company is invited to visit our campus for recruitment drives and explore academic collaborations. We eagerly await your team's visit to embark on a journey of shared growth and success at MANIT.

MESSAGE FROM THE TPC HEAD

We are delighted to invite you to participate in the campus recruitment program of the NIT, Bhopal. Collaboration between institutes and industry is paramount, and we believe our organization and NIT Bhopal can mutually benefit from such a relationship.

NIT Bhopal is a pioneer in engineering and technical education, with a distinguished position and consistent top rankings.We foresee a promising partnership. For details on our placement policy and campus recruitment program, please contact the Training & Placement Cell. We anticipate a mutually beneficial relationship fostering growth and success for all involved.

Prof. Aruna Saxena
(Head, Training & Placement Cell)

FROM THE DEPARTMENT

MESSAGE FROM THE HEAD OF THE DEPARMENT

Dr. Ramesh Kumar Nayak
(Head Of Department)

For over 18 years, the Department of Materials and Metallurgical Engineering (MME) has been dedicated to excellence in education, research, and industry collaboration. Our students and alumni have consistently excelled across academic and industrial spheres, reflecting our commitment to delivering relevant, high-impact outcomes. Guided by the belief that we must wake up before the sunset, we stay ahead by actively engaging with evolving challenges and opportunities. We value our partnerships with recruiters, alumni, and industry leaders, and warmly invite your esteemed organization to collaborate with us—through campus recruitment or strategic initiatives—for shared growth and innovation.

MESSAGE FROM TPC FACULTY COORDINATOR

The Department of Materials and Metallurgical Engineering (MME) was established in the year 2007 and is dedicated to the advancement of education and research in materials and metallurgical engineering. Our students and alumni have made significant strides in both academic and industrial domains, which is a reflection of our unwavering commitment to quality education, research, and industry collaboration. We deeply value our relationships with recruiters, alumni, and industry partners, and we are dedicated to ensuring that your recruitment experience is seamless and fruitful. On behalf of the Department, I extend a warm invitation to your esteemed organization to engage with us for campus recruitments and other collaborative endeavors that drive mutual growth.

Dr. Manmath Kumar Dash
(Faculty Coordinator)

ABOUT DEPARTMENT

The Department of Materials and Metallurgical Engineering (MME) was established in the year 2007 and is dedicated to the advancement of education and research in materials science and metallurgical engineering. The Department commenced its B. Tech and M. Tech programs in 2007 and 2012 , respectively. The research interests of the Department encompass Advanced Materials, including rare earths, thin films, ceramics, lightweight materials and structure-property correlations in metallic and non-metallic materials and advanced composites, in addition to the core areas like Process Metallurgy, Extractive Metallurgy, Physical Metallurgy and Mechanical behaviour of materials. The Department has also developed state-of-art advanced materials characterization facilities to support industries.

- Average batch size of 68 students for the B. Tech program
- An intensive M. Tech program providing more specialized knowledge in the field
- A sizable and highly talented female student body
- Regular exposure to new developments through curated Guest Lectures and conferences

DIVERSE CURRICULUM

Core Engineering

- MME353 – Advance Steel Makiing
- MME221 – Iron and Steel Making
- MME222 – Mechanical Behaviour of Materials
- MME311 – Phase Transformations & Heat Treatment

- MME 461 - High Temperature Materials
- MME323 – Non Ferrous Metal extraction
- MME321 – Metal Forming
- MME313 - Welding & Joining Technology

Analytics & Quant Roles

- MTH231 – Mathematics III (Linear Algebra)
- MTH241 – Mathematics IV (Probability & Statistics)
- MME 236 - Processing lab (Machine learning application)

Software Development (SDE)

- CS104 – Introduction to Programming
- CS352 – Data Structures & Algorithms
- CS472 – Object-Oriented Design & Modelling (OE)
- CS471 – Artificial Intelligence (OE)
- ECE469 – Neural Networks (OE)

Management Roles

- HUM251 – Fundamentals of Entrepreneurship
- ME351 – Engineering Management
- ME252 – Fundamentals of Design (Product Design)
- HUM451 – Engineering Economics & IPR

LAB FACILITIES

MATERIAL TESTING LAB

Tests Performed:

- Tensile Test: Measures strength, ductility.
- Hardness Test: Brinell, Rockwell, Vickers scales.
- Impact Test: Charpy/Izod toughness.
- Compression & Bend Tests: Material response under load.

MATERIAL CHARACTERIZATION LAB

Key Equipment:

- Optical Microscope: Microstructure & grain size.
- SEM: Surface morphology, high-res imaging.
- XRD: Phase identification, crystal structure.
- Image Analysis Tools: Quantitative grain metrics.

METAL EXTRACTION LAB

Facilities Include:

- High-temp Furnaces: Smelting, reduction.
- Analytical Setups: Ore, slag composition.
- Processing Units: Leaching, precipitation, refining.

PLACEMENT REVIEW

From Batch of 2025

Domain Breakdown:

Core	Tech + Analyst	Non-Core	Others
35 (51.4%)	15 (22%)	10 (17.6%)	6 (8.8%)

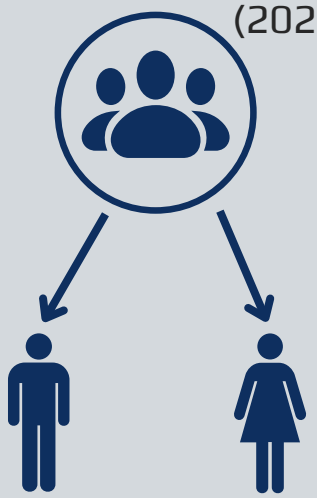
*higher studies & Competitive Prep

Statistics from 2025:

- 30LPA — HIGHEST PACKAGE
- AVERAGE PACKAGE — 9.46LPA
- 9LPA — MEDIAN PACKAGE
- TOTAL STUDENTS — 68
- 88% — STUDENTS PLACED

Batch Profile

(2026 Batch)

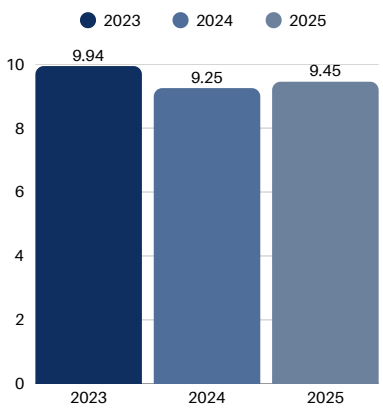


50 | 11

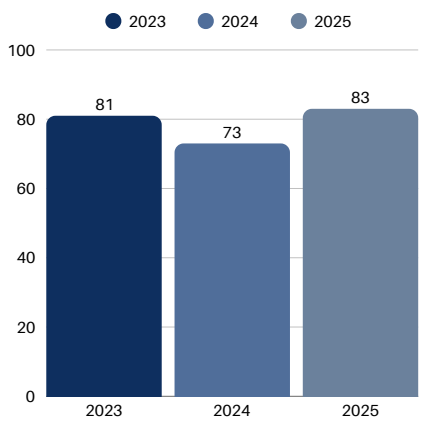
72

NIRF Ranking

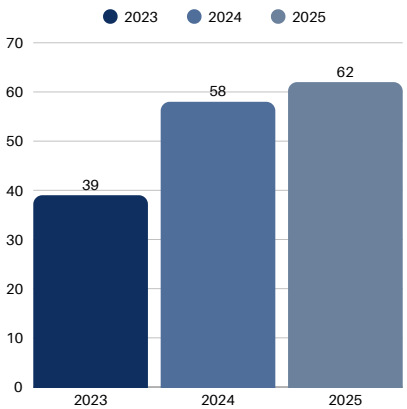
Average Package



Companies Visited



No. of Offer Made



SOCIETIES & CLUBS

Roobaroo, the cultural society of MANIT, is a hub for diverse talents in dance, art, anchoring writing designing theatre, and more. It provides a platform for individuals with artistic abilities to showcase their unconventional talents

The Entrepreneurship Cell, MANIT Bhopal fosters entrepreneurial spirit by guiding students to turn ideas into startups. Through events, mentorship, and industry interaction, it builds a supportive ecosystem for aspiring entrepreneurs.

The Quizzers' Club of MANIT Bhopal (QCM), brings together students passionate about knowledge and learning. It organizes quizzes and fosters curiosity, encouraging intellectual exploration and critical thinking across diverse topics.

FINIT is a student-led initiative at NIT Bhopal that promotes financial literacy and innovation. It empowers students with practical money management skills and encourages entrepreneurial thinking to build a financially aware and independent generation.

Intellect Browsers' Consortium (IBC) is the literary and management society of NIT Bhopal that enhances students' skills in debating, writing, marketing, and management through year-round events with nationwide participation.

IEEE MANIT Student Branch (IEEE MSB) promotes technological innovation and excellence through workshops, competitions, and research-driven events. As a leading branch in Central India, it fosters student development in engineering and tech

Robotics Club MANIT is a dynamic venue for the community of robotics enthusiasts that are eager to learn and apply their knowledge and skills in creating marvels in the robotics world

ISTE SC MANIT is a student chapter that promotes technical and professional growth through national-level events like coding contests, hackathons, quizzes, and talk shows. Since 2003, it has provided students with platforms to innovate, compete, and enhance their skills.

Ae Se Aenak is a vibrant platform for socially aware performers who create impactful street plays. The society promotes awareness on critical issues while nurturing expression, collaboration, and leadership through the powerful medium of Nukkad Natak.

SEMINARS AND CONFERENCES

International Conference on Advanced Materials and Technologies (ICAMT-2025)

We are pleased to share that we recently conducted the International Conference on Advanced Materials and Technologies (ICAMT-2025), organized by the Department of Metallurgical and Materials Engineering, MANIT Bhopal. This prestigious conference brings together leading researchers, academicians, and industry professionals from across the globe to explore the latest innovations and breakthroughs in advanced materials and their emerging technologies. It serves as an excellent platform for knowledge exchange, networking, and fostering future collaborations in the field of materials science and engineering.

National Conference on Failure Analysis of Metals and Alloys (NCFAMA-2025)

We have also conducted the National Conference on Failure Analysis of Metals and Alloys (NCFAMA-2025), organized by the Department of Materials and Metallurgical Engineering, MANIT Bhopal. Scheduled for the 27th–28th March 2025, this conference focuses on the critical domain of failure analysis in metals and alloys—an area vital for industries such as aerospace, automotive, energy, and defense. NCFAMA-2025 will provide an enriching platform for researchers, academicians, and professionals to exchange ideas, present innovative findings, and discuss emerging methodologies to enhance material performance and prevent failures in engineering applications.

Short-Term Training Programme on AI/ML in Computational Material Science

We were delighted to do conduct the Short-Term Training Programme (STTP) on AI/ML in Computational Material Science, held from 2nd to 6th September 2024 at the Department of Materials and Metallurgical Engineering, MANIT Bhopal. The programme was inaugurated by Prof. Alankar Alankar from IIT Bombay, with other dignitaries including Prof. S. P. S. Rajput and Prof. Sanjay Srivastava. This intensive training aimed to introduce participants to the integration of artificial intelligence and machine learning in solving real-world problems in materials science. It provided a unique platform for students, researchers, and professionals to explore data-driven approaches, computational modeling, and the future of smart materials through expert lectures and hands-on sessions.

OUR PROMINENT RECRUITERS

STUDENT ACHIEVEMENTS

Academic Excellence

THE DEPARTMENT HAS MAINTAINED A CONSISTENT RECORD OF ACADEMIC RIGOUR, WITH STUDENTS EXCELLING IN NATIONAL-LEVEL COMPETITIVE EXAMS SUCH AS GATE AND SECURING PLACEMENTS IN TOP RESEARCH INSTITUTIONS.

GATE ACHIEVEMENTS:

- **Ankit Singh – AIR 11, GATE 2022**
- **Sanjay Panwar – AIR 13, GATE 2023**

- **Akash Balpandey – AIR 77, GATE 2025**
- **Vishal Raj Amaresh – AIR 88, GATE 2025**
- **Harsh Jain - AIR 268, GATE 2025**

Industry Placements

OUR STUDENTS HAVE SECURED TOP-TIER PLACEMENTS IN HIGH-IMPACT ROLES ACROSS SOFTWARE ENGINEERING, BUSINESS ANALYTICS, AND PRODUCT-BASED COMPANIES.

PLACEMENT HIGHLIGHTS:

- **Khushi Agarwal – 35 LPA, SDE (ServiceNow)**
- **Vaibhav Dubey – 26 LPA, SDE (Juspay)**

- **Vishal Singh – 21 LPA, Business Analyst (Meesho)**
- **Shubh Shrivastava, Samyukta Alawa - 29.5 LPA, Operations Manager (Amazon)**

STUDENT ACHIEVEMENTS

Innovation & Competitions

STUDENTS HAVE ACTIVELY PARTICIPATED AND EARNED ACCOLADES IN NATIONAL HACKATHONS, MARKETING COMPETITIONS, AND CODING CHALLENGES — SHOWCASING THEIR PROBLEM-SOLVING ABILITY AND INTERDISCIPLINARY THINKING.
NOTABLE ACHIEVEMENTS :

NOTABLE ACHIEVEMENTS:

BATCH OF 2025

- **Aakash Paliwal : Winner, A Electrify, Master's Union (EV Industry Problem Solving)**
- **Aman Sharma: Finalist, Tata Technologies Innovent Hackathon; received Pre-Placement Offer**

BATCH OF 2026

- **Code_Crafters (Animesh Mishra, Harsh Darda, Anmol Kothari): Honourable Mention, ICPC Asia Amritapuri Regional (2024)**
- **Srishti Mishra : Semi-finalist, IMPETUS 5.0, Marketing Competition by MICA Ahmedabad(2025)**

Management Pursuits

SEVERAL STUDENTS FROM THE DEPARTMENT HAVE SUCCESSFULLY TRANSITIONED INTO MANAGEMENT EDUCATION, SECURING ADMISSIONS AT INDIA'S MOST PRESTIGIOUS B-SCHOOLS THROUGH CAT AND XAT

B-SCHOOL ADMISSIONS:

- **Raj Sanwal (2024): Post Graduate Programme, IIM Indore**
- **Kalyani Singh Bais (2023): 98.5 percentile in CAT, cleared XAT, admitted to PGP at XLRI Jamshedpur**

सामग्री और विनिर्माण प्रौद्योगिकी में प्रगति का तीसरा अंतर्राष्ट्रीय सम्मेलन

राजनीतिक क्रांति

भोपाल। सामग्री और विनिर्माण प्रौद्योगिकी में प्रगति का तीसरा अंतर्राष्ट्रीय सम्मेलन 2024 17th -20th दिसंबर 2024 तक MANIT भोपाल में आयोजित किया जा रहा है। ICAMMT 2024 सम्मेलन MANIT के मैकेनिकल इंजीनियरिंग विभाग के सहयोग से सामग्री और धातुकर्म इंजीनियरिंग विभाग द्वारा आयोजित किया जाता है। यह सम्मेलन क्षेत्र में अग्रणी नवाचारों के उद्देश्य से उन्नत प्रसंस्करण, सामग्री लक्षण वर्णन, मॉडलिंग, गुण, प्रदर्शन और डिवाइस निर्माण के क्षेत्रों पर केंद्रित है। यह सम्मेलन एक अंतर-विषयक शिखर सम्मेलन के रूप में कार्य करता है, जो उन्नत सामग्रियों के क्षेत्र में अनुसंधान और शिक्षा को एकीकृत करने के लिए संगठनात्मक और वैश्विक बाधाओं को दूर करता है।

सम्मेलन के मुख्य अतिथि डॉ. राजीव शेखर, प्रोफेसर आईआईटी कानपुर और पूर्व निदेशक आईआईटी (आईएसएम) धनबाद, और सम्मानित अतिथि डॉ. राहुल मिश्रा, प्रोफेसर आईआईटी खड़गपुर और डॉ. यू. राममूर्ति, एनटीयू सिंगापुर हैं। अकादमिक विशेषज्ञों द्वारा आयोजित सम्मेलन में 12 से अधिक मुख्य वक्ता निर्धारित हैं, और सम्मेलन में कई शोध पत्र प्रस्तुतियाँ प्रस्तुत किये जायेंगे। उद्घाटन दिवस पर, सम्मेलन में 4 मुख्य वक्ताओं, डॉ. राजीव शेखर, डॉ. यू.राममूर्ति, डॉ. राहुल मिश्रा और डॉ. भरत पाणिग्रही, प्रोफेसर और डीन (अकादमिक) आईआईटी हैदराबाद के सत्र हुए, इसके बाद एक तकनीकी सत्र हुआ जहां शोध पत्र प्रस्तुत किये गये।। कागजात प्रस्तुत किये गये। चयनित पेपर प्रतिष्ठित पत्रिकाओं में प्रकाशित किए जाएंगे और सम्मेलन पुस्तक खंड में शामिल किए जाएंगे। इस आयोजन का समन्वय MANIT भोपाल के सामग्री और धातुकर्म इंजीनियरिंग विभाग से डॉ. रमेश के नायक और डॉ. मनमथ दास और मैकेनिकल इंजीनियरिंग विभाग से डॉ. राजेश पुरोहित और डॉ. मोहम्मद तौफिक द्वारा किया जा रहा है।

Top companies select students from MANIT

Officers of the placement cell along with the company executives.

■ Staff Reporter

ON MONDAY, Indian Rare Earths Limited (IREL) visited the campus of Maulana Azad National Institute of technology (MANIT) for the first time this year and selected students from the MSME department. IREL executives praised MANIT's innovative facilities and labs and have offered two students a package of 12 lakh per annum (LPA). Additionally, discussions have been held for optional courses for second-year students to explore diverse fields and participate in research projects in the future.

Defence electronics company Data Patterns also provided placement opportunities. The selected students from MANIT will undergo training at the Chennai plant. These students have been offered a package of 11 LPA. As stated, MANIT's Dean and professors are strategically collaborating with Data Patterns in this initiative, aiming to establish advanced labs and promote research and development in crucial areas like communication systems, radar technology, electronic warfare, and avionics system design. The Head of Placement Cell, Dr Aruna Saxena, commended the support from MANIT alumni Dr Vikramjeet Singh Talwar and Unni (1984 batch). She highlighted that their joint efforts with the Alumni Cell President, Dr Biplab De in bringing organisations like Indian Rare Earths Limited and Data Patterns to the institution. These companies, traditionally recruited through open hiring, they have played a significant role in bringing them to the campus.

भोपाल में भी है मुख्य नियंत्रण सुविधा

मप्र की राजधानी भोपाल में भी इसरो की एक मुख्य नियंत्रण सुविधा (एमसीएफ) है। इसका निर्माण वर्ष 2005 में हुआ था। एमसीएफ उपग्रहों की कक्षा को ऊपर उठाने और उपग्रहों की कक्षा में होने के दौरान पेलोड परीक्षण और उनके संचालन की जिम्मेदारी निभाता है।

इसके सकारात्मक परिणाम आए हैं। उम्मीद है जल्द ही 'अल्ट्रासोनिक ट्रांसड्यूसर' के निर्माण का कार्य भारत में शुरू होगा, जो स्पेस के क्षेत्र में मेकिंग इंडिया के लक्ष्य को मजबूती देगा।

डॉ. भरत कुमार मोढेरा,
एसोसिएट प्रोफेसर, मैनिट

भारत अंतरिक्ष के क्षेत्र में बेहतर काम कर रहा है। स्पेस सैटेलाइट में प्रयोग होने वाले इंस्ट्रूमेंट्स यदि देश में बनेंगे, तो अन्य देशों पर पराधीनता नहीं रहेगी। स्पेस रिसर्च में पकड़ मजबूत होगी।

डॉ. सी. शशिकुमार,
एसोसिएट प्रोफेसर, मैनिट

सैटेलाइट को रास्ते की रुकावटों से अलर्ट करेगा सेंसर क्रिस्टल

मैनिट ने तैयार किया क्रिस्टल, जो इसरो के उपयोग में आएगा।

मैनिट के केमिकल इंजीनियरिंग डिपार्टमेंट के डॉ. भरत मोढेरा, डॉ. सी. शशि कुमार व इनके 6 पीजी-पीएचडी स्टूडेंट्स ने सैटेलाइट के लिए अल्ट्रासोनिक ट्रांसड्यूसर में इस्तेमाल होने वाला सेंसर क्रिस्टल तैयार किया है। यह क्रिस्टल अभी भी भारत यूएस से एक्सपोर्ट कर सैटेलाइट में लगाता है। पर, पहली बार है कि हमने इस क्रिस्टल को भारत के तटीय क्षेत्रों में मिलने वाले ऑक्साइड्स जरकोनी, लेड व टाइटेनियम से तैयार किया है। इस रिसर्च में डॉ. भरत मोढेरा की टीम 2022 से काम कर रही है और मेंटरिंग इसरो के लिक्विड प्रपल्शन सिस्टम्स सेंटर के वैज्ञानिक बी. राम प्रसाद कर रहे हैं। यह क्रिस्टल सैटेलाइट के रास्ते में आने वाले किसी भी ऑब्जेक्ट को दूर से ही डिटेक्ट कर लेगा।

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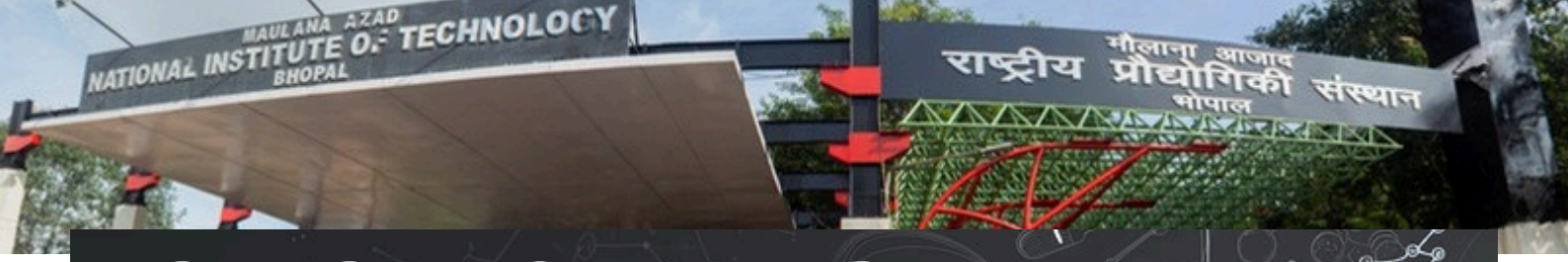

HOW TO REACH MANIT ?

By Air: 16km from Airport

Bhopal is well connected to major cities such as Mumbai, Indore, Hyderabad, Bangalore, and Delhi. Raja Bhoj International Airport, located approximately 16–17 km from MANIT Bhopal, offers convenient access to the institute. The airport is easily reachable via various modes of transportation, ensuring a smooth and comfortable commute for travelers.

By Rail: 5km from Railway Station

Bhopal is well connected by rail to major cities like Delhi and Bengaluru. Rani Kamalapati Station is about 6 km from MANIT, while Bhopal Junction is around 7 km away, both offering easy access to the institute.

By Road: 9km from Bus Stand

Bhopal is well connected by road to major cities like Delhi, Mumbai, and Chennai. Regular state-run and private bus services operate from the Kushabhau Thakre ISBT, ensuring smooth intercity travel.

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