

- [f](#)
- [X](#)
- [in](#)
- [@](#)
- [▶](#)

- [📄](#)

- [A-](#)
- [A](#)
- [A+](#)

- [📄 Screen Reader](#)

- [👤 Recruitment](#)

- [Tenders](#)



मालवीय राष्ट्रीय प्रौद्योगिकी संस्थान जयपुर (राष्ट्रीय महत्व का संस्थान)

Malaviya National Institute of Technology Jaipur (An Institute of National Importance)



- [🏠](#)
- [Institute](#)




- About MNIT

- [📄 About MNIT](#)
- [👁 Vision & Mission](#)
- [📋 Strategic Plan](#)
- [🏗 Infrastructure](#)

NIT Statutes & Act

- [📄 NIT Statutes & Act](#)

Reports

-  [Annual Reports](#)
-  [Data for NIRE](#)
-  [Data for ARIIA](#)

MNIT Newsletters




-  [Newsletter](#)
-  [Magazine](#)

• [Administration](#)




○ Administration

-  [Visitor](#)
-  [Council of NITs](#)
-  [Board of Governors](#)
-  [Senate](#)
-  [Chairman](#)
-  [Director](#)
-  [Registrar](#)
-  [Deans](#)
-  [Heads](#)
-  [Institute Functionaries](#)
-  [Chief Vigilance Officer](#)
-  [Institute Authorities](#)





Committees

-  [Finance Committee](#)
-  [Building & Works Committee](#)
-  [Grievance Redressal Committees](#)

Minutes of Meetings






-  [Minutes of BoG Meetings](#)
-  [Minutes of FC Meetings](#)
-  [Minutes of Senate Meetings](#)

Others

-  [Organization Chart](#)
-  [Administration](#)
-  [Budget Estimates](#)
-  [Miscellaneous](#)

• [Students](#)

○ Continuing Students

-  [Students' Welfare Office](#)
-  [E-Resources](#)
-  [Scholarship & Awards](#)
-  [Academic Calender](#)
-  [Class Time Table](#)
-  [Fee Structure](#)
-  [Notices/Information](#)
-  [Office Orders](#)
-  [Hostel](#)
-  [Anti-Ragging Campaign](#)
-  [UG Regulations](#)
-  [PG Regulations](#)

- [🔗 Formats and Forms](#)
- [🔗 Documents & Certificates](#)
- [🔗 Institute Digital Repository](#)
- [🔗 Training & Placement Cell](#)
- [🔗 Cultural Society](#)
- [🔗 IEEE Student Branch](#)
- [🔗 Convocation](#)
- [🔗 ALCOM-Alumni Affairs](#)

Prospective Students

- [🔗 Admissions](#)
- [🔗 Academic Programme](#)
- [🔗 Campus Life](#)
- [🔗 Scholarship & Awards](#)
- [🔗 Placement Results](#)
- [🔗 Virtual Tour](#)
- [🔗 MNIT Jaipur Admission Counselling Hub \(MAC\)](#)
- [🔗 Joint Seat Allocation Authority \(JoSAA\)](#)
- [🔗 Central Seat Allocation Board \(CSAB\)](#)
- [🔗 Direct Admission of Students Abroad \(DASA\)](#)
- [🔗 Centralized counselling for M.Tech./M.Arch./M.Plan. Admissions \(CCMT\)](#)
- [🔗 Centralized counselling for M.Sc./M.Sc.\(Tech.\) Admissions \(CCMN\)](#)

- [Academics](#)

- Departments

- [🔗 Architecture and Planning](#)
- [🔗 Artificial Intelligence & Data Engineering](#)
- [🔗 Chemical Engineering](#)
- [🔗 Chemistry](#)
- [🔗 Civil Engineering](#)
- [🔗 Computer Science and Engineering](#)
- [🔗 Electrical Engineering](#)
- [🔗 Electronics & Communication Engineering](#)
- [🔗 Humanities and Social Sciences](#)
- [🔗 Management Studies](#)
- [🔗 Mathematics](#)
- [🔗 Mechanical Engineering](#)
- [🔗 Metallurgical and Materials Engineering](#)
- [🔗 Physics](#)

Centres

- [🔗 Centre for Energy & Environment](#)
- [🔗 Materials Research Centre](#)
- [🔗 National Centre for Disaster Mitigation & Management](#)
- [🔗 Centre for Rural Development \(CRD\)](#)
- [🔗 Centre for Cyber Security \(CCS\)](#)
- [🔗 Continuing and Digital Education Center](#)

- [Research](#)

- Research @ MNIT

- [🔗 Major Research Area\(s\)](#)
- [🔗 Research Facilities @ MNIT](#)
- [🔗 Recent Research](#)
- [🔗 Research Projects](#)
- [🔗 Journal Publications](#)

-  [Conference Publications](#)
-  [Patents](#)
-  [Books/Chapter Publications](#)
-  [Regional Academic Centre for Space](#)
-  [MNIT Innovation & Incubation Centre](#)
-  [MNIT NISP](#)
-  [IP & TT Cell](#)
-  [Funding Opportunity](#)
-  [R & C Office](#)
-  [Industry Institute Interaction \(I3\)](#)

- [Central Facilities](#)

- Facilities






-  [Digital Infrastructure and Services](#)
-  [Central Library](#)
-  [Sports](#)
-  [Dispensary](#)
-  [Guest House](#)
-  [Canteen](#)
-  [Banks](#)
-  [Post Office](#)
-  [Shopping Complex](#)

- [Miscellaneous](#)

- Office of Deans

-  [Academics](#)
-  [Student's Welfare](#)
-  [Faculty Welfare](#)
-  [Research & Consultancy](#)
-  [International and Alumni Affairs](#)
-  [Planning & Development](#)
-  [Digital Infrastructure & Services](#)

Other Central Units

-  [E & ICT Academy \(Phase I\)](#)
-  [GIAN Cell](#)
-  [Unnat Bharat Abhiyan - RCI](#)
-  [Alumni Affairs](#)
-  [Training & Placement Cell](#)

Media

-  [MNITJ Press Release](#)
-  [MNITJ @ Media](#)
-  [Institute Lecture Series](#)
-  [Gallery](#)
-  [MNITJ Concluded Events](#)
-  [MNITJ Video](#)

Recruitment

-  [Recruitment @ MNITJ](#)



Department of Electrical Engineering

1. 

2. [Academics](#)
3. [Electrical Engineering](#)
4. Facilities

Facilities

Power Systems Lab

Advanced Simulators like Over Head Line and Fault Simulator, Digital Relays, Fault Locaters, High Voltage Testing equipment. Single and Three phase power analyzer (Fluke). Supported with modern simulation software like MATLAB, Power Systems Block Set, ETAP, PST, MiPower, etc.

Electrical Machines Lab

Conventional machines like DC Motors, DC Generators, Single Phase & Three Phase Transformers, Single Phase Induction Motors, Three Phase squirrel Cage and Slip-ring Induction Motors, Synchronous Machines, Amplidyne Generator and other machines. Complete set of Recording characteristics of electrical machines, Single phase and three phase transformer experiment set up, Synchronous machine experiment set up with Virtual Instrumentation (Feedback, UK)

Power Electronics & Electric Drives Lab

System components like Chopper Module, Inverter Module, Computer Module, Cycloconverter, VVVF Module for IM Drive, and several Basic Power Electronics kits. All modern instruments in the area of computer controlled drives, Modern technique control mechanism with hardware. Instruments like D-Space, IGBT based Inverter, Matrix Converter, IM Drive, PMBLDC Drive, MP Controlled DC Drive, Storage CRO, Power Analyzer, Voltage and Current Sensors.

Electrical Measurement & Instrumentation Lab

All measuring instruments and bridges. Several computer units with LAB-VIEW software to understand the principles and working of various measurement techniques and devices. Transducer Kit with 8 modules (Feedback, UK), Milliamp Clamp Meter, Electrical Tester, Phase Rotation Indicator, Clamp Meter etc. (Fluke Make).

Control Systems Lab

Modern control kits like Micro-processor controlled stepper motor, PID Simulator and System Simulators. Virtual Control Laboratory System for combinatorial experiments in the area of computer controlled servomotors. Control Engineering Trainer Kits like Temperature Control and flow control. Experiments for computer simulated systems based on MATLAB software. Function Generator Sine, Square and Triangle waveforms, 2 Channel 20 MHz Oscilloscope, 3?? Digit Digital LCD Multimeter, Power Function Generator: Sine, Square, Triangle and Trapezoid waveforms (Feedback, UK)

Simulation and Modelling Lab

Sufficient and latest configuration (Pentium Dual Core Processor) computers with several advanced scientific, programming and simulation software.

Electrical Science Lab

Provides all the facilities to give practical awareness to entry level UG students.

Microprocessor Lab

8085 Microprocessor kits (Kitek-5 nos), 8085 Microprocessor kits (Dynalog-2 nos), Study card of 8255, 8253, 8259, 8257, ADC, DAC, Digital IC Trainer, Digital Storage Oscilloscope

Electronic Devices & Circuits Lab

A study of the characteristics and qualitative internal action of commonly used micro-electronic devices for discrete and integrated circuits, such as diodes, junction field-effects transistors (JFETs), metal-oxide semiconductors FETs (MOSFETs), and bipolar junction transistors (BJTs). Application of these devices in basic amplifier circuits is explored in this Laboratory.

The lab is equipped with Digital Storage Oscilloscopes, Power supply Units (5V, 0-15V, 0-30V), Multimeters.

Related Links

- [Home](#)
- [People](#)
- [Academics & Time Table](#)
- [Facilities](#)
- [Publications](#)
- [Projects](#)
- [Patents](#)
- [Event Organized](#)
- [Awards & Honours](#)
- [Electrical Engg. Society](#)
- [Placements](#)
- [Photo Gallery](#)
- [Contact Us](#)



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- [>Right To Information Cell](#)
- [>Public Grievance](#)
- [>CVC Portal](#)
- [>ICC \(Women Cell\)](#)
- [>SC/ST/PWD/OBC Cell](#)
- [>Anti-Ragging Campaign](#)
- [>Ministry of Education](#)
- [>Council of NITSER](#)
- [>CCMT](#)

- [>CCMN](#)
 - [>CSAB](#)
 - [>DASA](#)

 - [>Intranet Portal](#)
 - [>GST Registration Detail](#)
 - [>Emergency Numbers](#)
 - [>Contact Us](#)
 - [>Privacy Policy for Online Fee Payment](#)
 - [>Holidays](#)
 - [>BIS Corner](#)
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-  [Admission](#)
[Related Query](#)
-  [Tenders/NITs](#)

