

- [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 Chemistry

1. 

2. [Academics](#)
3. [Chemistry](#)
4. Facilities

Facilities

Organic and Medicinal chemistry research lab

1. ● Rota vapour
2. ● Ultra-low Temperature bath
3. ● Ultrasonic machine
4. ● Centrifugal Machine
5. ● UV Chamber
6. ● Microwave oven

Organometallic and Catalysis

1. ● Chiller
2. ● Rotary Evaporator
3. ● Fume hood
4. ● Centrifuge
5. ● High pressure reactor
6. ● Ultra sonicator

Nanomaterials

1. ● UV-vis spectrophotometer, Jasco
2. ● Fluorescence spectrometer, Horiba

Molecular Spectroscopy Laboratory

1. ● FTIR Spectrometer, Bruker Tensor II
2. ● Multipass long-path gas cell with heating jacket, Specac Cyclone C5
3. ● Workstation computer, Dell Precision 7920
4. ● Workstation computer, Tyrone Camarero
5. ● SS400TA-54

Carbohydrate Chemistry Research Laboratory

1. ● Deep Freezer, Elanpro-20 degree EFS-340
2. ● Rotary evaporator, Chiller, Vacuum Pump, Heidolph
3. ● Magnetic Stirrers, iStir HP350 Neuation
4. ● Cryostat Circulating Chiller Bath, Metrex Scientific MSI,127
5. ● Diaphragm, Indian High
6. ● Vacuum Pump, IVP 75
7. ● Laboratory Refrigerator, 4-9 degree ECG-405
8. ● Laboratory Heating Sonicator Bath, LMUC-9Sr L18421
9. ● Carousel 12 Plus Reaction Station, Radleys
10. ● Laboratory Melting Point Apparatus, 1206A/1/ISGW
11. ● Work-Station & Computational, HP/Dell

Inorganic Materials and Catalysis Laboratory (Est. July 2019)

1. ● Rotary Evaporator with cryostat and pumps (Heidolph system)
2. ● Rotary Vane Pumps (PFEIFFER)
3. ● Solvent Distillation units (4)

4. ● Schlenk line systems for inert atmosphere reactions (3)
5. ● Argon Atmosphere Glove Box
6. ● Dye-Sensitized Solar Cell (DSSC) fabrication and Characterization facility
7. ● Computational workstations (DST) (Custom designed)
8. ● Dry-Ice Generation system
9. ● Preparative AM1.5G light source (Xenon system) for solar simulation Controlled temperature muffle furnace (Metrex Instruments)

Analytical Research Laboratory

1. ● High performance liquid chromatography, Agilent 1108 series
2. ● Rotatory evaporator, Chemwin

Materials Electrochemistry and Energy Storage Laboratory

1. ● Electrochemical workstation (7087E)
2. ● High temperature programmable tubular furnace (Ants Ceramics)

Organometallic and Supramolecular Chemistry Laboratory (OMSCL)

1. ● Sonicator
2. ● Vacuum pump

Materials Chemistry and Catalysis Laboratory

1. ● Hot air oven, Acumax
2. ● Digital ultrasonic cleaner, 5 Ltr, Labman
3. ● UV Cabinet complete set
4. ● Photochemical reactor, Blue LED source

Related Links

- [Home](#)
- [People](#)
- [Academics & Time Table](#)
- [Facilities](#)
- [Publications](#)
- [Projects](#)
- [Event Organized](#)
- [Placements](#)
- [Awards & Honours](#)
- [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](#)

