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- Screen Reader
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मालवीय राष्ट्रीय प्रौद्योगिकी संस्थान जयपुर *(राष्ट्रीय महत्व का संस्थान)* Malaviya National Institute of Technology Jaipur *(An Institute of National Importance)*







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 - Infrastructure

NIT Statutes & Act

■ NIT Statutes & Act

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Prospective Students

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- <u>Virtual Tour</u>
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Centres

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Recruitment

Recruitment @ MNITJ

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Department of Metallurgical and Materials Engineering

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- 2. Academics
- 3. Metallurgical and Materials Engineering
- 4. Facilities

Facilities

Department of Metallurgical and Materials Engineering is one of the foundation departments in this institute. It has nine laboratories. Most of the laboratories cater not only to undergraduate and Post Graduate courses but also to research work in the form of sponsored research project, industrial consultancy, postgraduate dissertation, doctoral dissertation and B.Tech.project work.

Electrometallurgy and Corrosion Lab

- 1. Cu-Plate Corrosion Tester
- 2. Digital Photo Calorimeter
- 3. Electroless Coating System
- 4. Conductivity meter
- 5. Muffle Furnace (900 °C)
- 6. **O** Oven
- 7. Fume Hood
- 8. Digital Weighing Balance
- 9. Hot Plate
- 10. Potentiostat
- 11. DC power source
- 12. pH meters

Extractive Metallurgy Laboratory

- 1. Muffle Furnace
- 2. Vacuum Furnace
- 3. Tube Furnace
- 4. pH meter
- 5. Laboratory Centrifuge
- 6. Programmable DC Power Supply
- 7. Weighing Balance

Powder Metallurgy Laboratory

- 1. Pusher Type Sintering Furnace (1200 °C)
- 2. Horizontal High Energy Ball Mill
- 3. Hydraulic Press
- 4. Universal Testing Machine
- 5. Vacuum Oven
- 6. Sieve Analyser
- 7. Carneys Apparatus
- 8. Data Acquisition System
- 9. Attrition Mill
- 10. O Digital Weight Balance

Mineral Processing Laboratory

- 1. Jaw Crusher
- 2. Roll Crusher
- 3. Disc Pulveriser
- 4. Rod Mill
- 5. Ball Mill

- 6. Single and Double Deck Screener
- 7. Air Classifier
- 8. Froth Floatation Cell
- 9. Magnetic and Pneumatic Separator
- 10. Solid State Reactor
- 11. Induction Furnace (2nos)

Testing of Materials Laboratory

- 1. Hounsfield Tensometer
- 2. Vertical Tensometer
- 3. Brinell Hardness Tester (3nos)
- 4. Rockwell Hardness Tester
- 5. Vickers hardness Tester
- 6. Impact Testing Machine (2nos)
- 7. Erichsen cupping Tester
- 8. Shore Hardness Tester

Physical Metallurgy and Heat Treatment Lab

- 1. Disc polishing machine
- 2. Induction Furnace
- 3. Tubular controlled atmosphere furnace
- 4. Muffle furnaces
- 5. Salt bath furnaces
- 6. High temperature viscometer
- 7. Atomic absorption spectrometer
- 8. Optical microscopes
- 9. Automatic polishing machine
- 10. Pin-on-disc wear testing machine
- 11. Tabor tester

Mechanical Working of Metals Laboratory

- 1. Rolling machine
- 2. Shaper machine
- 3. Drilling machine
- 4. Lathe machine
- 5. Forging machine

Materials Science and Plasma Nitriding

- 1. Flat plate collector
- 2. Solar concentrator
- 3. PV energy system
- 4. Solarimeter
- 5. Modelling and simulation software
- 6. Thermal scanner
- 7. Flue gas analyser
- 8. Energy simulation software
- 9. CFD software

Steel Research Laboratory

- 1. Multi-viewer Microscope (Leica DM6000M)
- 2. Inverted Microscope (Zeiss Vert.A1)

- 3. Differential Scanning Calorimeter (DSC404F3A01)
- 4. Image Analyser (Leica DM 6000 M)
- 5. Micro Hardness Tester (UHL VMHT VMH-002V)
- 6. Rockwell Hardness Tester (Tinius Olsen FH031-0000)
- 7. Vicker's Hardness Tester (RVM50)
- 8. Universal Testing Machine (Tinius Olsen H25KL-0030)
- 9. Universal Testing Machine (Instron-8862)

Metallography Laboratory

- 1. Inclined Monocular Microscope (15nos)
- 2. Trinocular Metallurgical Microscope
- 3. Disc Polishing Machine

Fuels and Furnaces Laboratory

- 1. Salt bath vertical muffle furnace (2nos)
- 2. Muffle Furnace
- 3. Oven (2nos)
- 4. Raising Hearth Furnace (1400°C)
- 5. Rotary Furnace
- 6. Tube furnace
- 7. Bottom pouring pot furnace/li>
- 8. Viscometer (Redwood and Engler apparatus)
- 9. Flash and Fire point apparatus (Cleave land, Pansky Martin and Abels)
- 10. Bomb Calorimeter
- 11. Boy's Calorimeter

Foundry Laboratory

- 1. High-Temperature Muffle Furnace (1200°C)
- 2. Vertical Muffle Furnace (900°C)
- 3. Horizontal Muffle Furnace (900°C)
- 4. Oven (300°C)
- 5. Slurry Pot Tester With Controller
- 6. Airjet Erosion Tester Tr-471-400 Material Characterisation Systems
- 7. Peel Back Tester
- 8. Sand Washer
- 9. Infrared Moisture Sensor
- 10. Sieve Shaker
- 11. Digital Universal Testing Machine
- 12. Hot Tensile Tester
- 13. Stick Point Tester
- 14. Core Gas Determinator
- 15. Permeability Tester
- 16. Sand Rammer
- 17. Shatter Index
- 18. Hydraulic Press
- 19. Rapid Slurry Formation setup with Furnace
- 20. Silicon Carbide Furnace (1400°C)
- 21. Vertical Drilling Machine
- 22. Sand Siever
- 23. Wear Testing Machine With Controller
- 24. High Shear Mixing Device
- 25. Digital Weighing Balance

Related Links

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- **Awards & Honours**
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- METMASS (Student Society)
- Placements
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Malaviya National Institute of Technology Jaipur Jawahar Lal Nehru Marg, Jaipur-302017 (Rajasthan) INDIA webmaster[at]mnit.ac.in

- > Right To Information Cell
- > Public Grievance
- >CVC Portal
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- Admission
 Related Query
- <u>Tenders/NITs</u>

