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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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Department of Chemical Engineering

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Facilities

Major Equipments available in Chemical Engineering Department

Momentum Transfer Operations Laboratory (CHP213)

1. ● Pipe Friction Apparatus
2. ● Venturi & Orifice Meter
3. ● Pipes And Fittings
4. ● Benoulli's Apparatus
5. ● Flow Through Fluidized Bed
6. ● Flow Through Packed Bed
7. ● Reynolds Apparatus

i For more details [Click here.](#)

Fluid Particle Mechanics Laboratory (CHP212)

1. ● Power Consumption in Agitated Vessel
2. ● Sedimentation Apparatus
3. ● Rotary Vacuum Filter
4. ● Plate And Frame Filter Press
5. ● Sieve Shaker
6. ● Cyclone Separator
7. ● Drag Coefficient Apparatus
8. ● Jaw Crusher
9. ● Ball Mill
10. ● Elutriator

i For more details [Click here.](#)

Heat Transfer Laboratory (CHP214)

1. ● Refrigeration & Air Conditioning Lab
2. ● Thermal Conductivity of given metal rod
3. ● Heat Transfer through Composite Wall
4. ● Thermal conductivity of an insulating powder material
5. ● Unsteady state heat transfer by lumped capacitance
6. ● Natural convection apparatus
7. ● Forced convection apparatus
8. ● Double Pipe Heat exchanger
9. ● Shell & Tube Heat exchanger
10. ● Emissivity apparatus
11. ● Film and Drop wise condensation apparatus
12. ● Heat Transfer in Agitated vessel

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Chemical Reaction Engineering Laboratory (CHP311)

1. ● Batch Reactor
2. ● Plug Flow Reactor
3. ● CSTRs in Series

4. ● Muffle Furnace
5. ● RTD Studies in A Packed Bed Reactor
6. ● Packed Bed Recycle Reactor
7. ● Spinning Basket Reactor
8. ● UV Reactor

i For more details [!\[\]\(eafc244b53721dd1ec133f0772f70fc7_img.jpg\) Click here.](#)

Petroleum Refinery Engineering Laboratory (CHP314)

1. ● Abel's Flash Point Apparatus
2. ● Cloud & Pour Point Apparatus
3. ● Smoke point apparatus
4. ● Penske Marten FP apparatus
5. ● Aniline Point Apparatus
6. ● Bomb Calorimeter Apparatus
7. ● Carbon Residue Apparatus
8. ● Distillation Apparatus
9. ● Reid Vapor pressure apparatus
10. ● Saybolt's Viscometer

i For more details [!\[\]\(5a132f13505a6571904d622757b7a8f0_img.jpg\) Click here.](#)

Process Dynamics and Control Laboratory (CHP316)

1. ● Response
2. ● Response of sinusoidal input
3. ● Interacting and non-interacting system
4. ● Second order system (water-mercury manometer)
5. ● Control valve characteristics
6. ● Temperature control trainer
7. ● Multi variable control trainer
8. ● Multi process control trainer
9. ● U tube manometer three different fluids

i For more details [!\[\]\(73002692dd5e7a64e60946be3158e719_img.jpg\) Click here.](#)

Mass Transfer Laboratory (CHP313)

1. ● Forced Draft Tray Dryer
2. ● Cooling tower Apparatus
3. ● Wetted Wall Column Unit.
4. ● Hydrodynamic Of Packed Column Apparatus
5. ● Batch Crystallizer
6. ● Bubble Cap Distillation Column
7. ● Batch Solid-Liquid Extraction Apparatus
8. ● Stephen Tube Apparatus
9. ● Mass Transfer In Liquid

i For more details [!\[\]\(ab4e2b3fc7e7887b7a72f548aa6f5e60_img.jpg\) Click here.](#)

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