

**List of Equipments in the Department (Chemical Engineering)**

Mechanical Operation lab	Fluid Mechanics Lab	Heat transfer Lab	Mass Transfer lab
<ul style="list-style-type: none"> <li>• Cyclone Separator</li> <li>• Plate &amp; Frame Filter Press</li> <li>• Vibrating Screen</li> <li>• Jaw Crusher</li> <li>• Ball Mill</li> <li>• Roll Crusher</li> <li>• Rotary Vacuum filter</li> <li>• Fluidized Bed</li> </ul>	<ul style="list-style-type: none"> <li>• Reynold's Apparatus</li> <li>• Bernoulli's Theorem Apparatus</li> <li>• Pitot Tube Apparatus</li> <li>• Calibration of Orifice meter, Venturi meter and Rota meter</li> <li>• Coefficient of Discharge of Orifice and Mouthpiece</li> </ul>	<ul style="list-style-type: none"> <li>• Double Pipe Heat Exchanger</li> <li>• Shell &amp; Tube Heat Exchanger</li> <li>• Vertical Condenser</li> <li>• Computerized Control Shell &amp; Tube Heat Exchanger</li> <li>• Thermal Conductivity of Metal Bar</li> <li>• Film &amp; Drop Wise Condensation</li> <li>• Single Effect Evaporator</li> </ul>	<ul style="list-style-type: none"> <li>• Tray Dryer</li> <li>• Sieve Plate Distillation Column</li> <li>• Liquid-Liquid Extraction</li> <li>• Adsorption of CO<sub>2</sub></li> <li>• Steam Distillation</li> <li>• Bubble Cap Distillation Column</li> <li>• Cooling Tower</li> <li>• Diffusivity Apparatus</li> <li>• Fluidized Bed Dryer</li> <li>• Simple Steam Distillation</li> <li>• Simple Distillation</li> <li>• VLE Apparatus</li> <li>• Equilibrium Flash Distillation</li> <li>• Humidification &amp; Dehumidification</li> <li>• Refractometer</li> </ul>

Process Control Lab	Chemical Reaction Engg. Lab	Fuel Combustion Energy Technology Lab	Environmental Lab
<ul style="list-style-type: none"> <li>• Process Training Simulator with Modules (Software)</li> <li>• Pressure Control System</li> <li>• Flow Control System</li> <li>• pH control System</li> <li>• Real Time Simulator Trainer</li> <li>• Level Control System</li> <li>• Temperature Control System</li> <li>• Distillation Column</li> <li>• Two Tank Interacting system</li> <li>• Two Tank Non-Interacting System</li> <li>• CSTR Control System</li> </ul>	<ul style="list-style-type: none"> <li>• Plug Flow Reactor</li> <li>• Isothermal Batch Reactor</li> <li>• Single Tube Packed Bed Reactor</li> <li>• RTD in CSTR / Mixed flow Reactor</li> <li>• RTD in Tubular Reactor</li> <li>• Adiabatic Batch Reactor</li> </ul>	<ul style="list-style-type: none"> <li>• Flash &amp; Fire Point Apparatus</li> <li>• Aniline Point Apparatus</li> <li>• Orsat Gas Analysis Apparatus</li> <li>• Redwood Viscometer</li> <li>• Bomb Calorimeter</li> <li>• Smoke Point Apparatus</li> </ul>	<ul style="list-style-type: none"> <li>• BOD Incubator</li> <li>• pH Meter</li> <li>• Sedimentation Apparatus</li> <li>• UV-VIS Spectrophotometer</li> <li>• DO Meter</li> <li>• Digital Conductivity Meter</li> </ul>

Research Equipments	<ul style="list-style-type: none"> <li>• UV-Spectrophotometer</li> <li>• Gas Chromatography</li> </ul>
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