

| <b>Sr. No</b> | <b>Lab Name</b>                         | <b>Experiment Setup Name</b>  |
|---------------|---|---|
| 1             | Chemical Engineering Design Lab         | CFD Expert Lite for 15 Users  |
| 2             | Process Instrumentation and Control Lab | Temperature control Trainer   |
| 3             | Fluid Flow and Heat Transfer Lab        | Plate Type Heat Exchanger   |
| 4             | Fluid Flow and Heat Transfer Lab        | Heat Transfer In Agitated Vessel  |
| 5             | Mechanical Operation Lab                | Leaf filter   |
| 6             | Mass Transfer –I Lab                    | Fluidized bed dryer   |
| 7             | Mass Transfer –II Lab                   | Solid Liquid Extraction (Packed Bed)  |
| 8             | Chemical Reaction Engineering Lab       | Gas Chromatography  |
| 9             | Chemical Reaction Engineering Lab       | Ultraviolet spectrophotometer (UV) Compaq monitor<br>keyboard mouse weighing<br>balance |
| 10            | Chemical Engineering Computer Lab       | Aspen one Engg.<br>V 9.1 @67 users  |

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|---------------|-------------------------------------|---|
| 1             | Geotechnical Engineering Laboratory | Triaxial Shear test apparatus<br>1.Load frame motorized<br>2.triaxial cell<br>3.Pneumatic control panel<br>4.Air compressor<br>5.Electric data acquisition system |
| 2             | Fluid Mechanics Laboratory          | Wind Tunnel with Smoke Generator  |

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|---------------|----------------------------|--|
| 1             | Internal Combustion Engine | Computerized 4 Cylinder, 4 Stroke Petrol Engine (MPFI, Wagon - R Engine) with Hydraulic Dynamometer  |
| 2             |                            | Computerized VCR Engine Set up, 1 Cylinder, 4 Stroke Diesel Constant Speed Power 3.5 kw@ 1500 RPM CR 12-18:1 with Eddy Current Dynamometer |
| 3             |                            | Exhaust Gas Analyzer (HG540) 4 gas Nox sensor, RPM measurement kit   |

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