

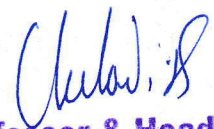
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Department of Mechanical Engineering

Design lab

LIST OF EQUIPMENTS

1. Motorized Gyroscope
2. Static and Dynamic balancing apparatus
3. Universal Governor apparatus
4. Whirling of shaft apparatus
5. Strain gauge setup – Rosette type
6. Vibration experiment setup
7. Polariscope
8. Curved Beam setup
9. Journal Bearing apparatus



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Material Testing lab

LIST OF EQUIPMENTS

1. Izod Tester
2. Charpy tester
3. Torsion Tester
4. Universal Testing Machine (UTM)
5. Pin on Disc Wear Testing Machine
6. Rockwell Hardness Tester
7. Brinell and Vicker's Hardness Tester



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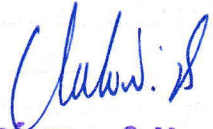
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Foundry, Forging and Welding lab

LIST OF EQUIPMENTS

1. Permeability tester
2. Clay content tester
3. Universal sand Testing machine
4. Sand Siever
5. Mould hardness tester
6. Core hardness tester
7. Open hearth furnace setup
8. Oven
9. Sand Rammer
10. Moisture tester
11. Welding transformer

DISPLAY LOCATION:


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Mechanical Measurements and Metrology lab

LIST OF EQUIPMENTS

1. Pressure gauge setup
2. Thermocouple setup
3. LVDT setup
4. Measurement of strain
5. Sine Bar
6. Profile projector
7. Bevel Protactor
8. Lathe tool dynamometer
9. Drilling tool dynamometer
10. Mechanical Comparator
11. Slip gauge box
12. V-block
13. Vernier Caliper


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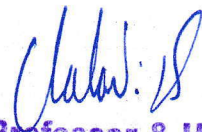
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Machine shop and Workshop Practice

LIST OF EQUIPMENTS

1. Lathe Machine (Belt Drive and Light duty)
2. Lathe Machine (Gear Drive and Light Duty)
3. Milling Machine
4. Drilling Machine
5. Shaping Machine
6. Bench Grinder



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Fluid Mechanics and Machinery lab

LIST OF EQUIPMENTS

1. Pipe Friction Apparatus (Major Losses)
2. Impact of Jet on Vanes apparatus
3. Orifice and Venturimeter apparatus (combined setup)
4. Nozzle and Rotameter apparatus (combined setup)
5. Notch apparatus
6. Single stage centrifugal pump test rig
7. Multi stage centrifugal pump test rig
8. Reciprocating pump test rig
9. Pelton Wheel Turbine with Mechanical Loading
10. Francis Turbine with Electrical Loading
11. Kaplan Turbine with Electrical Loading
12. Two stage Reciprocating Air Compressor test rig
13. Centrifugal blower test rig



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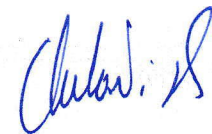
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Energy Conversion lab

LIST OF EQUIPMENTS

1. Abel-Pensky apparatus (closed)
2. Martin-Pensky apparatus (closed)
3. Cleveland's apparatus (Open cup)
4. Bomb Calorimeter
5. Boy's gas Calorimeter
6. Redwood viscometer
7. Saybolt viscometer
8. Torsion viscometer
9. Valve timing Models
10. Port opening Models
11. Single cylinder 4-stroke Petrol Engine test rig with Electric Loading
12. Single cylinder 2-stroke Petrol Engine test rig with Electric Loading
13. Variable Compression Ratio Single cylinder 4-Stroke Diesel Engine test rig with Eddy current Dynamometer Loading
14. Four cylinder 4-Stroke Petrol engine test rig with Hydraulic Dynamometer Loading



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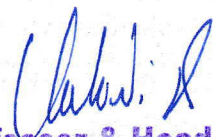
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Heat Transfer lab

LIST OF EQUIPMENTS

1. Thermal conductivity of Metal rod
2. Overall heat transfer coefficient of a Composite wall
3. Metallic Fin apparatus
4. Free convection apparatus
5. Forced convection apparatus
6. Surface emissivity apparatus
7. Stefan-Boltzmann's apparatus
8. Parallel and counter flow Heat Exchangers
9. Condensation apparatus
10. Transient heat conduction apparatus
11. Refrigeration test rig
12. Air conditioning test rig



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