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HEAT & MASS TRANSFER LAB

S.No.	Description of items with make, model & serial No.
1	Heat transfer From Pin Fin
2	Parallel Flow & Counter Flow Heat Exchanger
3	Heat Transfer in Force Convection
4	Specific Heat of Air Apparatus
5	Emissivity Apparatus
6	Vortex Tube Apparatus
7	Regenerative Heat Exchanges
8	Vertical Condenser
9	Heat Pump Testing Rig
10	Composite Wall Apparatus
11	Lagged Pipe Apparatus
12	Heat Pipe Demonstration
13	Critical Radius of Insulating Material Apparatus
14	Heat Conduction Apparatus
15	Heat Transfer in Natural Convection Apparatus
16	Unsteady Heat Transfer Apparatus
17	Stefan Boltzman Apparatus
18	Drop wise & Film wise Condensation Apparatus
19	Thermal Conductivity of Insulating Powder Apparatus
20	Thermal Conductivity of Metal Rod Apparatus
21	Finned Tube Heat Exchanges
22	Shell & Tube Heat Exchangers
23	U-Tube Finned Heat Exchanges
24	Cross-Flow Heat Exchanges
25	Radiation Heat Transfer Apparatus
26	Two Phase Heat Transfer Unit

THEORY OF MACHINE (KINEMATICS & DYNAMICS) LAB

1	Universal vibration Apparatus
2	Cam analysis Apparatus
3	Whirling of shaft
4	Static & dynamic balancing demonstrator
5	Motorized gyroscope
6	Journal bearing Apparatus
7	Coriolis's Components of Acceleration Apparatus
8	Epicyclical Gear Train Apparatus
9	Universal Governor Apparatus
10	Slip and Creep Measurement Apparatus
11	Four bar link mechanism
12	Reciprocating Engine Mechanism
13	Whit Worth's Quick Return Mechanism
14	Epicycle Gear Train

REFRIGERATION & AIR CONDITIONING LAB

1	Natural Cooling Tower
2	Window Air Conditioning Test Rig.
3	Heat Pump
4	Cascade Refrigeration Cycle TestRig.
5	Refrigeration Cycle Test Rig
6	Mini Cold Storage Plant
7	Air Conditioning Cycle Test Rig.
8	Low Temperature Cycle Test Rig.
9	Vapour Compression Refrigeration Test Rig.

STRENGTH OF MATERIALS LAB

1	Analog Type Torsion Testing Machine
2	Fatigue Testing M/c with Max. Bending Moment
3	Automatic Brinall Hardness Testing Machine
4	Electronic Rockwell Hardness Tester
5	Vickers's Hardness Tester

INTERNAL COMBUSTION ENGINE LAB

1	4 Stroke SI Engine test Rig
2	4Stroke CI Engine test Rig
3	Ignition System of SI Engine
4	Model of Carburator with cut section
5	Working model of Lubricating System
6	Cut Section model of 4StrokeDieselEngine
7	Cut Section model of 4StrokePetrolEngine
8	Cut Section model of 2StrokePetrolEngine

CAD LABORATORY

1.	Many Computers with CPU embedded with various CAD softwares
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