

Department of Mechanical Engineering, I.T, G.G.V., Bilaspur (C.G.)

(1) Theory of Machines Lab

S.N.	Name of Equipment
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	Corioli's Components of Acceleration Apparatus
8	Epicyclic 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

(2) Strength of Materials Lab

S.N.	Name of Equipment
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

(3)Heat & Mass Transfer Lab

S.N.	Name of Equipment
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	Emmissivity 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 Bollzman Apparatus
18	Drop wise & Filmwise 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 Hear Exchanges
25	Radiation Heat Transfer Apparatus
26	Two Phase Heat Transfer Unit

(4) Refrigeration and Air Conditioning Lab

S.N.	Name of Equipment
1	Mini Cold Storage Plant
2	Heat Pump
3	Refrigeration Cycle Test Rig
4	Window Air Conditioning Test Rig.
5	Cascade Refrigeration Cycle Test Rig.
6	Vapor Compression Refrigeration Test Rig.
7	Air Conditioning Cycle Test Rig.
8	Natural Cooling Tower
9	Low Temperature Cycle Test Rig.