

DEPARTMENT OF MECHANICAL ENGINEERING LABS

S.No	Lab Name	Major Equipment	QTY
1	CAM LAB	R P Machine	1
2		Assembly Station	1
3		Automatic Guided Vehicle	1
4		Automatic Storage& Retrieval System	1
5		CNC Vertical Milling Centre (XL MILL)	1
6		CNC Slant Bed Lathe(XL TURN)	1
7	Robotics and Mechatronics Lab (FIST Sponsored)	Co-Ordinating Measuring Machine	1
8		CNC Lathes	2
9		CNC Wirecut EDM	1
10		Robot Manipulator ( Floor mounted )	1
11		3D Printer	1
12	FM Lab	Centrifugal Pump Rated Speed	1
13		Centrifugal Pump Constant Speed	1
14		Impact of Jet	1
15		Gear Oil Pump	1
16		Multistage Centrifugal Pump	1
17		Reciprocating Pump	1
18		Francis Turbine (OLD)	1
19		Francis Turbine (NEW)	1
20		Pelton Wheel Turbine (NEW)	1
21		Kaplan Turbine (NEW)	1
22		Pelton Wheel Turbine (OLD)	1
23		Minor Losses (NEW)	1
24		Orifice & Mouth Piece (NEW)	1
25		Bernoulli's Theorem (NEW)	1
26		Venturimeter & Orifice Meter (NEW)	1
27		Major Losses (NEW)	1
28		Reynold's Apparatus (NEW)	1
29		Meta Centric Height (NEW)	1
30		Reynold's Apparatus (OLD)	1
31		Orifice (OLD)	1
32		Mouth Piece (OLD)	1
33		Rectangular Notch (OLD)	1
34		Triangle Notch (OLD)	1
35	Open Channel (OLD)	1	

36	Machine Tools Lab	PLASMA ARC WELDING MACHINE	1	
37		SUBMERGED ARC WELDING MACHINE	1	
38		ARC WELDING MACHINE	1	
39		STIR CASTING FURNANCE	1	
40		SIMPLE BALANCE	1	
41		PIN ON DISK	1	
42		MUFFALE FURNACE	2	
43		CENTRE LESS GRINDING MACHINE	1	
44		ANGLE PLATE	1	
45		SHAPING MACHINE	1	
46		SLOTING MACHINE	1	
47		POWER HACK SAW MACHINE	1	
48		ENGINE 6' BED LATHE MACHINE	1	
49		H.M.T LATHE MACHINE	2	
50		HYDRALIC PRESS	1	
51		HAND CUTTER AND GRINDING MACHINE	1	
52		BENCH GRINDING MACHINE	2	
53		DIE CASTING PLATES	2	
54		DRILLING TOOL DYNAMO METER	1	
55		MILLING TOOL DYANOMO METER	1	
56		LATHE TOOL DYANAMO METER	1	
57		POWER HAND DRILLING MACHINE	1	
58		PILLAR DRILLING MACHINE	1	
59		WOOD & MARBLE CUTTING MACHINE	1	
60		UNIVERSAL WOOD PLANING WORKING MACHINE	1	
61		SAND MULLER	1	
62		CAPSTAN LATHE MACHINE	1	
63		1.5METER BED LATHE MACHINE	4	
64		1.8METER BED LATHE MACHINE	5	
65		TOOL AND CUTTER GRINDING MACHINE	1	
66		BENCH VICE	4	
67		Metallurgy Lab	PLANETARY BALL MILLING	1
68			ULTRASONIC TEST	1
69	MAGNETIC PARTICLE TESTER		1	
70	ADVANCED INVERTED METALLURGICAL MICROSCOPE WI		1	
71	BRINELL HARDNESS TESTER WITH MICROSCOPE		1	
72	JOMINY END QUENCH APPARATUS		1	
73	MUFFLE FURNACE		1	
74	DOUBLE DISC POLISHING MACHINE (WET GRINDER)		2	
75	TRINOCULAR OPTICAL MICROSCOPES		4	
76	SPECIMEN MOUNTING PRESS		2	

77	Thermal Sciences and Heat Transfer Lab	Recirculating Air- Conditioning Test Rig	1
78		Lagged pipe apparatus	1
79		Natural convection apparatus	1
80		Stefan-Boltzmann apparatus	1
81		Emissivity measurement apparatus	1
82		Thermal conductivity of metal rod apparatus	1
83		Composite wall apparatus	1
84		Pin-Fin apparatus	1
85		Forced convection apparatus	1
86		Critical Heat Flux Apparatus	1
87		Dropwise- Filmwisecondensation apparatus	1
88		Plate Type Exchanger	1
89		Insulating powder apparatus	1
90		Two-slab guarded hot plate Apparatus	1
91		Parallel flow and counter flow heat exchanger	1
92		Indus gas Analyzer	1
93		Vapour Compressor Refrigeration Test Ring	1
94	CAD LAB	COMPUTER SYSTEMS	150
95		CNC Train Simulation Software	5
96		BRICS CAD	5
97		INTELLI CAD	17
98		AUTODESK INVENTOR	5
99		Edge CAM	4
100		Altair HyperWorks	10
101		ANSYS CFD FLUENT	25
102		Solid Works	500
103		PRO-E Creo	50
104		ANSYS. Ver.18.0	25/250
105		NISA	100
106		MSC Structural Bundle	50
107		MSC Motion Bundle	50