

**List of Key Equipments in Department of Manufacturing Engg and Industrial Management**

<b>Sr. No</b>	<b>Name of Laboratory</b>	<b>Name of Equipment</b>	<b>Cost (In Lakhs Rs)</b>	<b>Space Available (Sqm)</b>
1	Rapid Prototyping Laboratory	Stratasys Connex 350	96.1	39.1
2		Artech Spider 3D scanner	12.48	
3		3D Scanner David SLS	6.75	
4		Laser Head for AM Machine SLS	32	
5		Vision Capturing & Measuring System Rapid-I	7.99	
6		Auto Cast XI, E foundry, Melt IT labware	19.64	
7		SLM 280	300	
8		Fortus 450 FDM	150	
9		F170	26	
10		Formlab	5.56	
11		Solidscape	50	
12	FAB Laboratory	CNC Router	10.96	115
13		Epilog Laser Cutter	6.78	
14		3D printer flash forge guider 2	1.4	
15		Instek Function generator	0.18	
16		Modela mini mill machine	22.5	
17		Advanced electronic work bench	5.56	
18	Research Laboratory	Electrospinning Apparatus	9.73	37.2
19		POP Plating Process	5.04	
20		Dynamic Mechanical Analyzer	25.23	
21		Auto Cast –XI	19.64	
22		Hybrid Micro EDM	144.58	
23		Bioprinter	27.5	
24	Metrology Laboratory	Slip gauge set	8.43	63
25		Surface roughness tester sj410-	2.23	
26		Laser interferometer	14.5	
27		Profile projector v-12a	4.01	
28		Dynamometer 9257b	24.6	
29		Surface roughness tester sj20ip	1.55	
30		Rigid optical table	5.25	
31		Autocollimator with accessories	5.8	
32		Micro hardness tester	7.85	
33		Atomic force microscope	23.65	

34		2d measurement system	3.89	
35		Hexagon Articulated arm	25	
36		CMM coordinate measuring machine	23.6	
37	Machine Tool Laboratory	EDM Drill M/C	5.1	153.5
38		CNC 3D Milling/ Engraving machine	11.3	
39		CNC EDM Machine	28.3	
40		Kitsler tool force dynamometer	24.5	
41		25T Hydraulic Press	16.65	
42		PVM 40 VMC machine	19.5	
43		Robotics & Automation Laboratory	Sg 5/6 – ut robotic arm	
44	Robot industrial arm		2.55	
45	Motoman SV 3X plus X RC Controller		14.37	
46	Scorbot ER VII		8.81	
47	Humanoid Robot		8.18	
48	Non-conventional Laboratory	EDM	27.7	20.2
49		Electrospinning apparatus	9.7	
50	Terotechnology Laboratory	Atomic Absorption Spectrophotometer	8.05	44.22
51		Direct Reading Ferrograph Model DR 5	14.96	
52		Dual Slide Ferrogram Maker: Model FMIII	19.95	
53		Bi-chromatic Optical Microscope (Olympus BX 51)	15.09	
54	Mechatronics Laboratory	PLC based Lift Simulator Model	9.00	12.2
55		PC-PID Based Multi-Process Control system	5.50	
56		PLC based Bottle Filling Plant	11.11	
57	Ergonomics Laboratory	Pressure mats	5.26	43.2
58		Hand Force Dynamometer Set	1.85	
59		Uniq-q12 ecg machine	6	
60	CAD/CAM Laboratory	<b>Computer Lab I</b>		11.4
61		H-Simulator & P Simulator (Festo Fluid Sim)	6.63	
62		Simufact Forming	6.00	
63		Automation Studio	11.60	
64		<b>Computer Lab II</b>		
65		ProModel	1.82	
66		Witness	3.72	
67		CAM Lab CNC	9.05	
68		ArtCAM Software	5.5	

69		Simulia abaqus Research academic teaching suite	15	
70		Rhino 7 and Rhino E	1.86	
71		Magic RP	29.2	