

## List of Laboratories available with area of each lab and major equipments

S. No	Name of the Course	Name of the laboratory/workshop	Total Area of lab/ workshop sq.m	Major equipment	Cost in Lacs
1	Civil Engineering	i) Applied Mechanic	140.00	1) Compression Testing Machine	0.59
		ii) Environment Lab.	90.00	2) Tri axial Shear Test Apparatus	
		iii) Survey Lab.	75.00	3) Direct Shear Test Apparatus	
		iv) Hydraulic or Fluid Mechanics Lab	120.00	4) Electronic distance meter N1- 450	
		v) Material Testing Lab.	120.00	5) One second theodolite	
2	Chemical Engineering			6) Digital Planimeter	8.78
				7) Auto level	
				8) PH Meter	
				8) Vicat Apparatus.	
				10) Le-Chatelier Apparatus.	
				11) Aggregate Impact Testing Machine.	
				12) Compaction Factor Apparatus.	
				13) Universal Testing Machine (100T)	
				14) Universal Testing Machine (20T)	
				15) Compression Testing Machine (200T)	
		16) Torsion Testing Machine			
		17) Hardness Testing Machine			
		18) Impact Testing Machine			
		19) Fatigue Testing Machine			
		20) Timber Testing Machine			
		21) Concrete Mixer			
		22) Tile Flexure Testing Machine			
			100.00	Distillation Column,	0.36
		i) Chemistry Lab	120.00	Surface Evaporation Equipment, Extraction Equipment	1.26
		ii) Mass & Transfer Lab	90.00	Ball Mill,	2.80
		iii) Process Control Lab.		Pulveriser,	
		iv) Mechanical Operations Lab.	120.00	Sieve Analyser,	1.01
				Plate and Frame Filter,	
				PH Meter	

3	Computer Technology	i) Software Lab-I.	75.00	Computers – Laptop, P- III, PIV, Printers – Dot Matrix Printer Deskjet Printer, Laser Printer Network Switch, Hub, Routers, Modems, Lan Tester, Crimping Tool, DVD Player, Scanners, Splitter, Digital Camera	36.59
		ii) Software Lab-II.	50.00		34.89
		iii) Project & Hardware Lab.	75.00		32.40
		iv) Information Technology Lab-I.	70.00		26.24
4	Electrical Engineering	i) Electrical Machine Lab I & II	150.00	3 Phase Induction Motor, DC Shunt Motor, Generating Set, Test Bench for Calibration of Instruments, Test Boards, Yokogawa Instrument, 3 phase transformer	2.03
		ii) Electrical Measurement & Circuit Lab.	90.00		2.00
		iii) Basic Electrical	100.00		2.11
		iv) Power System Lab.	90.00		1.10
		v) Electrical Workshop	100.00		0.25
5	Industrial Electronics	i) Basic Electronics Lab.	120.00	1. Digital Storage Oscilloscopes (realtime 250ms/sec) 2. Mixed Signal Oscilloscopes ( 60 MHz) 3. Curve Tracer 4. True R.M.S. Meter 5. PLC Trainer 6. Ratio Controller 7. Colour Pattern Generator 8. CR Oscilloscopes 100 MHz 9. Dual trace CRO 10. Signal Generators 11. Dual Power Supply units 12. Single Power Supply units 13. Table top DMM's 14. True RMS Meters 15. Fibre optic Trainer Kit 16. ECG machine 17. 8085 CUB AND CLASSIC Trainer kits 18. 8051 microcontroller Trainer kits, IC Kits	6.42
		ii) Power Electronics Lab	75.00		1.75
		iii) Microprocessor & Microcontroller Lab.	120.00		3.34
		iv) Communication System Lab	75.00		2.57
		v) Industrial Electronics Lab-I & II	50.00		0.76
		vi) Instrumentation Lab.	120.00		
		vii) Applied Electronics Lab.	75.00		

6	Information Technology	i) Information Technology Lab-II.	75.00	Computers – Laptop, P- III, PIV, Printers – Dot Matrix Printer Deskjet Printer, Laser Printer Network Switch, Hub, Routers, Modems, Lan Tester, Crimping Tool, DVD Player, Scanners, Splitter, Digital Camera	28.19
		ii) Network Lab.	75.00		27.40
		iii) CAD Lab	75.00		26.24
7	Mechanical Engineering	i) Metrology & Quality Control Lab.	90.00	1. Vicker cum Brinell Hardness tester 2. Mitotoyo Surfctest-402 With Analyzer 178 3. Digital Comparator. 4. Autocollimater and Angle Dekkor 5. Tool Makers Microscope 6. Software: Ideas, CATIA V5, ProEngineer Wild Fire 7.Refrigeration Test Rig 8. Air Conditioning Test Rig 9. Ice Plant Test Rig 10.Single Cylinder Petrol Engine Test Rig 11. Single Cylinder Diesel Engine Test Rig 12. Multi cylinder Petrol Engine Test Rig 13. Multi cylinder Diesel Engine Test Rig 14. Air Compressor Test Rig. 15. Kaplan Turbine 16. Francis Turbine 17. Bernoulli's Theorem Experiment Test Rig. 18. Ventury Meter Apparatus 19. Centrifugal Pump Test Rig. 20. Hydraulic Trainer 21. Pneumatic Trainer 22. Electropneumatic Trainer.	2.00
		ii) Thermal Engineering Lab.	120.00		2.05
		iii) Theory of Machines Lab.	90.00		1.89
		iv) Drawing Hall	405.00		0.21
		v) Workshop	1092.00		0.57
		vi) CAD Lab.	75.00		1.90
		vii) General Mechanical Lab.	100.00		2.10
		viii) Automobile Engg. Lab.	120.00		2.05
		ix) Hydraulic & Pneumatic Lab.	120.00		0.83

8	<b>Production Technology</b>	i) Metallurgy Lab. ii) Ii) Tool Engg. Lab. iii) CNC Lab.	100.00 120.00 130.00	1. Electro-Discharge Machining (EDM) Sparkonics 2. Center Lathe 3. Shaper 4. Cylindrical Grinding 5. P.S.G.-A-141 Lathe 6. Center Lathe 7. Planning machine model –4 8. Universal Milling M/cU/F-1 9. Vertical milling M/C 10. Universal Tool & cutter Grinder 11. Cut all Metal cutting Band Saw 12. CNC trainer 13. Milling Machine 14. Electrochemical Machine 15. Festo-Pneumatic Trainer 16. Festo-Electro Pneumatic Trainer 17. Drill Tool Dynamometer 18. Texellance Make CNC Lathe	0.10 2.82 7.27
9	<b>Basic Science</b>	i) Applied Physics Lab ii) Applied Chemistry Lab	240 240	1. Spectrometer 2. Travelling Microscope 3. Resistance Box 4. Rehostat 5. SKN Regulator 6. Water Bath 7. Hot Air Oven 8. Weighing Balance 9. Muffle Furnace 10. Lovib & Comparator 11. Raugh Balance 12. Top Weighing Balance Conductivity Meter Electrical Weighing Machine Hot Plate Conductivity Meter Heating Meter	0.79 2.66