



**BHEEMA INSTITUTE OF TECHNOLOGY & SCIENCE-ADONI**  
**DEPARTMENT OF MECHANICAL ENGINEERING**

**MSE - LAB**

**YEAR & SEM: I-B.TECH, II-SEM**

**LIST OF EQUIPMENTS:**

<b>Sl.NO</b>	<b>Name of the Laboratory</b>	<b>Name of equipment/ Machinery</b>
1	<b>MATERIAL SCIENCE AND ENGG.</b>	Metallurgical Microscopes
2		Copper Specimens
3		Aluminium Specimens
4		Mild Steel Specimens
5		Low Carbon Steel Specimens
6		Stainless Steel Specimens
7		Belt Grinder
8		Single Disc Polisher
9		Jominy End Quench Test Apparatus
10		Creep Testing Machine

**H.O.D - ME**

**PRINCIPAL**

**BHEEMA INSTITUTE OF TECHNOLOGY & SCIENCE-ADONI****DEPARTMENT OF MECHANICAL ENGINEERING****ENGINEERING WORKSHOP****YEAR & SEM: I-B.TECH, II-SEM****LIST OF EQUIPMENTS:**

S.NO	Name of the laboratory	Name of equipment/ Machinery
1	<b>ENGINEERING WORKSHOP</b>	Marking gauge
2		Mortise chisels
3		Firmer chisels
4		Steel Ruls 12"
5		Wooden mallets (Rectangular)
6		Wooden mallets ( Cylindrical )
7		Wooden jack plane
8		Metal jack plane
9		Wooden hand saw
10		Carpentry Try square 6"
11		Carpentry Try square 8"
12		Claw hammer
13		Ball peen Hammer 1/2 B
14		Hand drilling machine 1/2"
15		Ball peen Hammer LB
16		Oil stone
17		Gimlet
18		Triangular file 8" smooth
19		Triangular file 6" smooth
20		Tenon saw
21		Flat files rough
22		Number punch sets 5/32
23		Number punch set 3/8"
24		Number punch set 5/16" & 1/4"
25		Scriber
26		Chisel
27		Bench vice 4"
28		Hack saw Frame ( Fixed Frame )
29		Hack saw Frame (Adjustable Frame )
30		Center punch
31		Flat file smooth 10"

32	Flat file smooth 8"
33	Square file 12" Rough
34	Square file 10"
35	Half Round file 12"
36	Round file 5.8"
37	Diamond level chisel
38	Carpenter vice
39	Half round wood rasp file 12"
40	Mild steel wire brush
41	Universal scribing block
42	Plastic mallet 1 1/4"
43	Chipping hammer
44	Tongs
45	Trovels
46	Letter Punch 5/16"
47	Letter Punch 1/4"
48	Stake
49	Straight Snips
50	Bent Snips

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**DEPARTMENT OF MECHANICAL ENGINEERING**

**MOS - LAB**

**YEAR & SEM: II-B.TECH, I-SEM**

**LIST OF EQUIPMENTS:**

<b>Sl.NO</b>	<b>Name of the Laboratory</b>	<b>Name of equipment/ Machinery</b>
1	<b>MECHANICS OF SOLIDS LAB</b>	Tension testing equipment
2		Cantilever beam
3		Simply supported beam
4		Torque testing machine
5		Hardness testing machine
6		Spring testing equipment
7		Compression testing machine
8		Impact testing machine

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**CAD LAB**

**YEAR & SEM: II-B.TECH, I-SEM**

**LIST OF EQUIPMENTS:**

<b>Sl.NO</b>	<b>Name of the Laboratory</b>	<b>Name of equipment/ Machinery</b>
1	<b>CAD LAB</b>	AUTO CAD SOFTWARE
2		PRO-E
3		CATIA
4		SOLID WORKS
5		ANSYS
6		HYPER MESH
7		UNI-GRAPHICS

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**BHEEMA INSTITUTE OF TECHNOLOGY & SCIENCE-ADONI**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**FM & HM LAB**

**YEAR & SEM: III-B.TECH, I-SEM**

**LIST OF EQUIPMENTS:**

<b>Sl.NO</b>	<b>Name of the Laboratory</b>	<b>Name of equipment/ Machinery</b>
1	<b>FM &amp; HM LAB</b>	Impact of jets
2		Single stage centrifugal pump
3		Multi stage centrifugal pump
4		Reciprocating pump
5		Venturi meter
6		Orifice meter
7		Friction factor test setup
8		Bernoulli's Theorem setup
9		Rectangular notch and Triangular notch
10		Pelton wheel
11		Francis turbine

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**DEPARTMENT OF MECHANICAL ENGINEERING**

**TE LAB**

**YEAR & SEM: II-B.TECH, II-SEM**

**LIST OF EQUIPMENTS:**

<b>Sl.NO</b>	<b>Name of the Laboratory</b>	<b>Name of equipment/ Machinery</b>
1	<b>THERMAL ENGINEERING LABORATORY</b>	Reciprocating Air-Compressor
2		4-Stroke Diesel Engine With Electrical Loading
3		2-Stroke Petrol Engine Test rig
4		Valve Timing Diagram For 4-Stroke Diesel Engine (Cut Section)
5		Port Timing Diagram For 2-Stroke Petrol Engine (Cut Section)
6		Model of Cochran Boiler
7		Model of Babcock & Wilcox Boiler
8		Model of Benson Boiler
9		Model of Locomotive Boiler

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**MFT LAB**

**YEAR & SEM: II-B.TECH, II-SEM**

**LIST OF EQUIPMENTS:**

<b>S.NO</b>	<b>Name of the Laboratory</b>	<b>Name of equipment/ Machinery</b>
1	<b>MANUFACTURING TECHNOLOGY LAB</b>	Arc Welding Machine
2		Spot Welding Machine
3		Plasma Welding
4		Blow Molding Machine
5		Hydraulic Press
6		Injection Molding Machine
7		Wood Turning Lathe
8		Pit Furnace With Electric Blower
9		Mechanical Press
10		Foundry Tool Kit

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**MT LAB**

**YEAR & SEM: III-B.TECH, I-SEM**

**LIST OF EQUIPMENTS:**

<b>Sl.NO</b>	<b>Name of the Laboratory</b>	<b>Name of equipment/ Machinery</b>
1	<b>MACHINE TOOLS LAB</b>	Lathe machines
2		Drilling machine
3		Milling Machine
4		Shaper
5		Planing Machine
6		Slotting machine
7		Cylindrical Grinder
8		Surface Grinder
9		Tool & Cutter grinder

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**DEPARTMENT OF MECHANICAL ENGINEERING**

**HT LAB**

**YEAR & SEM: III-B.TECH, II-SEM**

**LIST OF EQUIPMENTS:**

<b>Sl.NO</b>	<b>Name of the Laboratory</b>	<b>Name of equipment/ Machinery</b>
1	HEAT TRANSFER LAB	Natural convection setup
2		Stefan Boltzman Apparatus
3		Emissivity Apparatus
4		composite slab Apparatus
5		Critical heat flux set up
6		Concentric sphere Apparatus
7		Fin-Pin Apparatus
8		Thermal conductivity of metal test setup
9		Parallel and counter flow heat exchanger setup
10		Lagged pipe Apparatus
11		Forced convection setup

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**BHEEMA INSTITUTE OF TECHNOLOGY & SCIENCE-ADONI**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**M&M LAB**

**YEAR & SEM: IV-B.TECH, I-SEM**

**LIST OF EQUIPMENTS:**

Sl.NO	Name of the Laboratory	Name of equipment/ Machinery
1	METROLOGY & MEASUREMENTS LAB	Internal micrometer
2		Gear teeth vernier Calliperse
3		Tool makers microscope
4		Bevel protractor, Sine bar
5		Spirit level
6		Pressure guage indicater
7		Thermocouple
8		LVDT transducer
9		Photo and magnetic speed pickup equipment
10		Rotometer

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**DEPARTMENT OF MECHANICAL ENGINEERING**

**CAE LAB**

**YEAR & SEM: III-B.TECH, II-SEM**

**LIST OF EQUIPMENTS:**

<b>Sl.NO</b>	<b>Name of the Laboratory</b>	<b>Name of equipment/ Machinery</b>
1	<b>CAE LAB</b>	AUTO CAD SOFTWARE
2		PRO-E
3		CATIA
4		SOLID WORKS
5		ANSYS
6		HYPHER MESH
7		UNI-GRAPHICS

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**DEPARTMENT OF MECHANICAL ENGINEERING**

**CAD/CAM LAB**

**YEAR & SEM: IV-B.TECH, I-SEM**

**LIST OF EQUIPMENTS:**

<b>Sl.NO</b>	<b>Name of the Laboratory</b>	<b>Name of equipment/ Machinery</b>
1	<b>CAD/CAM LAB</b>	AUTO CAD SOFTWARE
2		PRO-E
3		CATIA
4		SOLID WORKS
5		ANSYS
6		HYPHER MESH
7		UNI-GRAPHICS

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**DEPARTMENT OF MECHANICAL ENGINEERING**

**ACAD/CAM LAB**

**YEAR & SEM: I-M.TECH, I-SE**

**LIST OF EQUIPMENTS:**

Sl.NO	Name of the Laboratory	Name of equipment/ Machinery
1	<b>ACAD/CAM LAB</b>	AUTO CAD SOFTWARE
2		PRO-E
3		CATIA
4		SOLID WORKS
5		ANSYS
6		HYPER MESH

7

UNI-GRAPHICS

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**DEPARTMENT OF MECHANICAL ENGINEERING**

**MS LAB** YEAR & SEM: I-M.TECH, II-SEM

**LIST OF EQUIPMENTS:**

Sl.NO	Name of the Laboratory	Name of equipment/ Machinery
1	<b>MANUFACTURING SIMULATION LAB</b>	Auto MOD Software
2		PROMOD
3		SLAM-II
4		CAFIMS
5		Flexsim

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