

**Mechanical Engineering Department**

<b>Mechanical Engineering Department</b>						
<b>Name of the Lab</b>	<b>Lab Incharge</b>	<b>Name of the Equipments</b>	<b>No. of student in the group</b>	<b>Quantity required</b>	<b>Quantity available</b>	<b>Shortfall</b>
<b>Applied Mechanics</b>	<b>Sh. Sandeep Kumar</b>	Polygon law of forces apparatus comprising of wooden board with wt	30	1	1	0
		Universal force table		1	1	0
		Differential wheel and axel		1	1	0
		Inclined plane metal base		1	1	0
		Inclined plane wooden base		1	1	0
		Pulley set demonstration assembly		1	1	0
		Single Pulley with Hook		4	4	0
		Pulley triple long		2	2	0
		Pulley triple parallel		1	1	0
		Wheel axel		1	1	0
		Cafton		1	1	0
		Screw jack without wt		1	1	0
		Parallel force apparatus		1	1	0
		Jib Crane Apparatus		1	1	0
		Wooden block 18*12 cm		1	1	0
		Worm and Worm Single		1	1	0
		Winch crab Single		1	1	0
		Force Table		1	1	0
		Inclined Plane cum Friction Board		1	1	0
		Polygon Law of force apparatus		1	1	0
Jib Crane	1	1	0			
Simply Supported Beam	1	1	0			
Model Engg. drg	10	10	0			
<b>Hydraulic &amp; Pneumatic Lab</b>	<b>Sh. Saurabh Kumar</b>	Cut Section Model Hydraulic Ram	30	1	1	0
		Cut Section Model of Reciprocatiing Pump		1	1	0
		Bernoulli's Apparatus		1	1	0
		Cut Section Model of Single Stage Centrifugal Pump		1	1	0
		Venturimeter Apparatus with differential Manometer		1	1	0
		Simple U-tube manometer		1	0	1
		Bourdon.s tube pressure gauge		1	0	1

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		Darcy's equation Apparatus		1	0	1
		Pelton wheel		1	0	1
		Francis turbine		1	0	1
		Kaplan turbine		1	0	1
		hydraulic circuit		1	0	1
		pneumatic circuit		1	0	1
		Model of Reciprocating Pump		1	1	0
<b>Measurement and Instrumentation Lab</b>	<b>Sh. Narendra</b>	Surface Roughness Tester	30	1	1	0
		Granite Surface Plate		1	1	0
		Tool Room Microscope with Magnificent Eye Piece Objective		1	1	0
		Micrometer 25-50 mm		2	2	0
		G- Clamp		2	2	0
		V-Block 4"		02 Set	02 Set	0
		Plane Adjustable Snap -25-32 mm gauge		02 nos	02 nos	0
		Bore Gauge 18-34 mm with dial gauge		1	1	0
		Sine Bar		2	2	0
		Feeler Gauge		2	2	0
		Magnetic Stand		1	1	0
		Radius Gauge one set of three 1-25mm		01 set	01 set	0
		Oil Cane		1	1	0
		Inside Calliper 8"-		6	6	0
		Centre Punch Taparia make		2	2	0
		Digital Height Gauge 0-300 mm		1	1	0
		Inside Micrometer 50-300mm		3	3	0
		Digital Outside Micrometer 0-25 mm		4	4	0
		Digital Outside Micrometer 25-50 mm		2	2	0
		Bore Gauge 50-100 mm		1	1	0
		Micrometer 5-30 mm		1	1	0
		Vernier Height Gauge 0-300mm		1	1	0
		Bevel Protector		1	1	0
		Dial Type Micrometer 25-50 mm		3	3	0
		Outside Micrometer 0-25 mm		5	5	0
		Outside Micrometer 25-50 mm		2	2	0
Vernier Calliper 0-300 mm	2	2	0			
Dial Vernier Calliper 0-300 mm	3	3	0			
Combination Set	3	3	0			

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		Adjustable Snap Gauge (Range-0-6, 6-13,13-19,19-25 mm)		2	2	0
		Digimatic Snap Gauge 0-25 mm		1	1	0
		Vernier Depth Gauge 0-300) mm		1	1	0
		Vernier Height Gauge 0-600 mm		1	1	0
		Dial Gauge Stand with dial		1	1	0
		Air Plug Gauge 25 mm with setting master ring		1	1	0
		Air Snap Gauge 25 mm with 02 master setting		1	1	0
		Micrometer Checker set 13 pcs		1	1	0
		Calliper checker up to 300 mm		1	1	0
		Electronic Digimatic Dial Gauge		1	1	0
		Lever type Dial Indicator		1	1	0
		Measuring Pins 0.5-12 mm		01 set	01 set	0
		Dial type air gauge with air fitting regulator		1	1	0
		Accessories for gauge block upto 300 mm		1	1	0
		Gauge Block Set of 83 pcs		2	2	0
		Digital Comparator along with probe and dial stand		1	1	0
		Vernier Calliper 150 mm		1	1	0
		Outside Micrometer 0-25 mm		1	1	0
		Outside Micrometer 25-50 mm		1	1	0
		Inside Micrometer 50-300 mm		1	1	0
		Vernier Bevel Protector		1	1	0
		Vernier Depth Gauge 300 mm		1	1	0
		Vernier Height gauge 300 mm		1	1	0
		Steel Scale 6 "		2	2	0
		Steel Scale 12 "		2	2	0
		Angle Finder		1	1	0
		Thread Gauge		1	1	0
		Ammeter and voltmeter with board		1	1	0
		Screw Driver 4",6",6"		01 each	01 each	0
<b>Materials and Metallurgy</b>	<b>Sh. Sandeep Kumar</b>	Pipe Wrench 30 mm	30	1	1	0
		Metallurgical Microscope		2	2	0
		Dry Oven		1	1	0
		Muffle Furnace		1	1	0
		Copper Specimen		1	1	0
		Brass Specimen		1	1	0

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		Aluminum Specimen		1	1	0
		Cast Iron Specimen		1	1	0
		H.S.S Specimen		1	1	0
		Gun Metal Specimen		1	1	0
		Heat Treat Furnace digital 1200C Size 4"*4"*9" with digital temp indicator cum controller		1	1	0
		Diamond Polishing Machine		1	0	1
		Metallurgical Microscope		1	0	1
<b>Automobile and Thermal</b>	<b>Sh. Devende r Singh</b>	Carburettor Assembly	30	2	2	0
		Spark Plug		2	2	0
		Project Wiring Diagram of car		1	1	0
		Steering Assembly		1	1	0
		Clutch Plate Assembly		1	1	0
		Dynamo Assembly		1	1	0
		Propeller Shaft		1	1	0
		Horn		1	1	0
		Steering Wheel		1	1	0
		Exp. One Cylinder Air Cooled Petrol Engine (single-cylinder)		1	1	0
		Exp. Multi-cylinder Petrol Engine (Four-Stroke 4-cylinder)		1	1	0
		Nestler/ Morcet Boiler with attached accessories		1	1	0
		Cut-Section Model of 2-Stroke Petrol Engine		1	1	0
		Cut-Section Model of multi cylinder 4-Stroke Petrol Engine		1	1	0
		Single Cylinder 4-stroke vertical Diesel engine with one No.Stop watch		1	1	0
		Cut Section Model of multi-cylinder Diesel Engine		1	1	0
		Screw Jack Mechanical 2Ton capacity		2	2	0
		Variable Compression ratio Petrol engine Test Rig		1	1	0
		Model of Lever Safety Valve		1	1	0
		Hydrometer		2	2	0
Ammeter & Voltmeter With Board Strips		1 No. of Each	1 No. of Each	0		
Thermometer 360"		4	4	0		
Bomb Calorimeter with Accessories		1	1	0		

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		Surface heat Transfer Apparatus under forced Convection		1	1	0
		Infrared Thermometer (-50 to 550"°c)		1	1	0
		Digital Controller with ThermoCouple Probe (0-1200"°c)		1	0	1
		Battery Ignition system		1	0	1
		Magnetic Ignition system		1	0	1
		Head Light Model		1	0	1
		Wiper and Indicators		1	0	1
		Model of AC Pump in braking system		1	0	1
		Model of SU Pump in braking system		1	0	1
		Model of Master Cylinders in braking system		1	0	1
		Model of rear axle		1	0	1
		Model of Differential		1	0	1
		Cell Voltage apparatus and Specific gravity Apparatus for Battery used in auto-mobile		1	0	1
		Inflation of tyre apparatus		1	0	1
		Balancing of wheels apparatus		1	0	1
		Model/ Chart of Cooling System of IC engine.		1	0	1
		Model/ Chart of Lubricating system of IC engine		1	0	1
		Morse test		1	0	1
		Pyrometer		1	0	1
		Model of air compressors		1	0	1
<b>Computer Aided Design Lab</b>	<b>Sh. Vikas Arora</b>	H.P Printer M 1005 MFP	30	1	1	0
		HP Scanjet G2410 Scanner		1	1	0
		DELL make computer with keyboard , mouse and monitor		3	3	0
		HCL computer with keyboard , mouse, and monitor		3	3	0
		ACER Computer system with the following description Computer:- VT/F/ Core i5, 6400/ 2.4GB/5PC LCD:- v196HQLqbm 18.5H 16: 95MPC, with other accessories, keyboard, mouse,		4	4	0
		ACER Computer system with the following description Computer:- VT/M/ Core i5, 6400/8, 4 GB/500PCLCD:- v196HQLqbm, 18.5H 16: 9 5MPC, with other accessories,		5	5	0

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		keyboard, mouse, mouse pad				
		ACER Computer system with the following description Computer:- VT/M/ Core i5, 6400/8, 4 GB/500PC LCD:- v196HQLqbm 18.5H 16: 9 5MPC, with other accessories, keyboard, mouse, mouse pad		4	4	0
		UPS 6KVA H AVO Make 2 hr. Back up		1	1	0
		Battery Optimuz make		14	14	0
		Desk Top ACER Dual Core 2 GB RAM, 5 GB HDD, DVD Writer 18.5" TFT Mouse and keyboard D951150373744226 SMD 31700424242		1	1	0
		Projector Dell 1410		1	1	0
		HP make computer with keyboard , mouse and monitor		6	6	0
<b>Theory of Machine Lab</b>	<b>Sh. Devender Singh</b>	Model of locomotive coupling Bar Mechanism	30	1	1	0
		Model of Pantograph		1	1	0
		Crank and slotted lever Q R Mechanism		1	1	0
		Whitworth Q R Mechanism		1	1	0
		Oldham's Coupling		1	1	0
		Scotch yoke Mechanism		1	1	0
		Belt drive Model Two stage		1	1	0
		Model of Belt drive (loose and fast pulley)		1	1	0
		Model of simple Gear Train		1	1	0
		Model of Compound Gear Train		1	1	0
		Model of Reverted Gear Train		1	1	0
		Epicyclical Gear Train		1	1	0
		Moment of inertia of flywheel Apparatus		1	1	0
		Universal Governor Apparatus		1	1	0
Static and Dynamic Balance Machine	1	1	0			
<b>Strength of Materials Lab</b>	<b>Sh. Chander Kant</b>	Universal Testing M/c Enkay Make	30	2	2	0
		Torsion Testing M/c		3	3	0
		Rockwell Cum Brinell Hardness Testing M/c		2	2	0
		Impact Testing m/c		3	3	0

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		Hardness testing M/c		2	2	0
		Spring Testing M/c Simple Tech		1	1	0
		Hardness testing M/c TKB - 3000		1	1	0
		Vernier Caliper 0-300 mm		1	1	0
		Outside Micrometer 0-25		1	1	0
<b>Refrigeration and Air-conditioning</b>	<b>Sh. Krishan Kumar</b>	Tube Cutter	30	1	1	0
		Tube Bender ¼"		1	1	0
		Tube Bender 3/8"		1	1	0
		Sling Psychrometer		1	1	0
		Pinch off Tool		1	1	0
		Spring Bender		1	2	0
		Hygrometer		1	1	0
		Expansion Valve		1	1	0
		Drier ¼"		1	1	0
		Copper Strainer		1	1	0
		HP/LP Cut out		1	1	0
		Empty Cylinder		1	1	0
		Charging Line		1	1	0
		Thermostat Switch		1	1	0
		Electronic Leak Detector		1	1	0
		Thermometer		1	1	0
		Bench Vice		1	1	0
		Finned Type Evaporator		1	1	0
		Natural Draught Cooling Tower Model		1	1	0
		Air-Conditioning Model		1	1	0
		Refrigerator Model		1	1	0
		Water Cooler Model		1	1	0
		Cold Storage Model		1	1	0
Cooling Tower Forced Draught Model	1	1	0			
LG Domestic Refrigerator	1	1	0			