

DEPARTMENT OF MECHANICAL ENGINEERING

	NAME OF	LAB	
SN	LABORATORY	LOCATION	MAJOR EQUIPMETS IN THE LABORATORY
	Material Testing Lab	W-4 (A)	1. Universal Testing Machine
			2. Torsion Testing Machine
1			3. Impact Testing Machine
			4. Rockwell Hardness Testing Machine
			5. Brinell Hardness Testing Machne
2	Materials Technology & Metallurgy Lab	W-8	1. Metallurgical Inverted Microscope with image Analyzer software (Suxma-Met-E) Generation, RAM 16 GB, 512 GB SSD, 19.5" LED Moniter, USB Keyboard & Mouse, WINDOWS 11 Home, 64 Bit, 2GB Graphics card. 3. Muffle Furnace 4. Fatigue Testing Machine 5. Trinocular Metallurgical Microscope 6. Disc Polishing Machine 7. Belt Grinder 8. End Quench Test Apparatus



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3	Center of Excellence In Computer Aided Product Development & Automation - Industry Supported 1. CAD Section 2. CAD/CAE Section 3. Automation, CAM & 3D Printing Section	C-0/08	Generation, RAM 16 GB, 512 GB SSD, 19.5" LED Moniter, USB Keyboard & Mouse, WINDOWS 11 Home, 64 Bit 2. Collaborative and connected Solidworks 3D education platforms 4. ANSYS Academic Teaching Mechanical & CFD Software 5. AutoCAD Software 6. Lab - View Software 7. NI's data acquisition kit 8. CNC Milling machine 9. 3D Printer with Computer 10. FLASH PRINT 11. 3D Slicer and Ultimate Cura 12. Basic Pneumatic Kit 13. Basic Electro - Pneumatic kit 14. Basic PLC kit 15. ARISTO 6 Axis Robotic Arm with computer 16. PLC CRUSH II Micro Controller 17. MATLAB software
4	Kinematics of Machinery & Dynamics of Machinery Lab	W-11	1. Motorized Gyroscope 2. Universal Governor Apparatus 3. Whirling of Shaft Apparatus 4. Vibraion Lab Equipment 5. Static and Dynamic Balancing Apparatus



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SN	LABORATORY	LOCATION	MAJOR EQUIPMETS IN THE LABORATORY
5			1. Emissivity Measurement Apparatus
			2. Thermal Conductivity of Metal Bar Apparatus
	Heat Transfer &	W-12	3. Thermal Conductivity of Insulating Material Apparatus
	Thermal Engineering		4. Parallel and Counter Flow Heat Exchanger
	Lab		5. Natural and Forced Convection Apparatus
			6. Shell and Tube Heat Exchanger
			7. Heat Transfer in Forced Convection with Inserts
			1. Mini Pelton Turbine Test Rig
			2. Kaplan Turbine Test Rig
	Fluid Mechanics and		3. Francis Turbine Test Rig
6	Hydraulic Machinery	W-9	4. Reciprocating Pump Test Rig
	Lab		5. Centrifugal Pump Test Rig
			6. Hydraulic Bench - I
			7. Hydraulic Bench - II
	Refrigeration and Air Conditioning Lab	W-10	1. Refrigeration Test Rig
			2. Air Conditioning Test Rig with Psychrometer
7			3. Ice Plant Test Rig
			4. Heat Pump Test Rig
			5. Cooling Tower
	I.C.Engine & Automobile	W-14 (A)	1. Twin Cylinder 4 stroke vertical Diesel Engine Test Rig, (COMET make engine with Hydraulic
			Dynamometer)
			2. 4-cylinder,4 - Stroke Petrol Engine Test Rig (Premier Padmini engine with Hydraulic
8			Dynamometer)
	Engineering Lab		3. Petrol Engine Test Setup (231H) 3 cylinder, 4 Stroke, Petrol. Maruti 800 (MPFI)
			4. 4-Stroke, 4 Cylinder Diesel Engine (Mahindra & Mahindra BOLERO Engine)
			5. Multi Gas Emission Analyzer



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SN	LABORATORY	LOCATION	MAJOR EQUIPMETS IN THE LABORATORY
			1. Surface Plate 450 * 450 mm
			2. Vernier Caliper with fine adjustment; Size 0- 200 mm / 0.02 mm, Mitutoyo make
			3. Outside Micrometer, size 25-50 mm/0.01 mm, Mitutoyo make
			4. Surface Roughness Tester Model SJ 201 . Mitutoyo make
			5. Spirit level RSK Japan make 150 * 0.02 block type
			6. Outside Micrometer size 0-25 mm / 0.01 mm Mitutoyo make
			7. Outside Micrometer size 25-50 mm/ 0.01 mm Mitutoyo make
			8. Dial Indicator, LC 0.01 mm, Mitutoyo make
			9. Dial Indicator, 0.001 mm Mitutoyo make
			10. Dial Gauge stand Mitutoyo make No. 7001
9	Metrology Lab	C- 2 /07 (B)	11. Slip Gauge set; 87 pieces, grade 'O', Mitutoyo make
			12. Outside Micrometer size 0-25 mm / 0.001 mm, Mitutoyo make
			13. Sine Bar Indian Make
			14. Sine Centre Indian make 200 mm
			15. Screw Thread Micrometer
			16. Measuring Tip for Screw Thread Micrometer
			17. Gear Tooth Vernier Caliper
			18. Monochromatic Light Source
			19. Optical Flat 50 mm
			20. Profile Projector T 300
			21. Bevel Protractor



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SN 10			MAJOR EQUIPMETS IN THE LABORATORY DELL Desktop Computers, Model: OPTILEX 7040 SFF, INTEL (R), Core I5, RAM 12 GB DDR4, 500 GB HDD SATA, 18.5" LED Monitor, USB Keyboard & Mouse, WINDOWS 10 Home, 64 Bit Lenovo Desktop Computers, Model: NEO50S-11SYS08C00, Lenovo Think centre, 12th Generation INTEL (R) Core I5 12500, RAM 16 GB DDR4, 1 TB HDD SATA, 18.5" LED Monitor, USB Keyboard & Mouse, WINDOWS 11 Pro, 64 Bit ACER Desktop Computers, Model: VERITON M200-H610, INTEL (R), Core I5 12 Generation, RAM 16 GB, 512 GB SSD, 21.5" LED Monitor, USB Keyboard & Mouse, WINDOWS 11 Home, 64 Bit 1. Arduino Uno 2. GL-12 840 Points Breadboard 3. Multimeter 4. Soldering Stand
			5. Glue Gun 40W 6. Adapter 12V, 2A Power Supply 7. DHT 11 Module 8. Ultrasonic Module HC-SR-04 9. Flame Sensor 10. PIR Motion Sensor 11. IR Infrared Ostacle (Imported) 12. ADXL345 Triple Axis Linear Accelerometer 13. ESP 8266, ESP-01 - Wi-Fi Module 14. 1 Channel, 5V Relay 15. 12 V DC Electric Solenoid Water air valve switch (NC)



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11	Project Based Learning (PBL) Lab	C-2/07 (A)	1.Furnished AC room
			2. Samsung 43 inch Smart TV for virtual training and interaction3. 3D Printer
	Machine Shop	W-06 (A)	1. Lathe Machine
12			2. Shaping Machine
12			3. Milling Machine
			4. Drilling Machine
13	Welding Shop	W-6 (C)	1. Arc Welding Machine
13			2. TIG Welding
14	Carpentary Shop	W-5	1. Wood Turning Machine
	Fitting Shop	W-6 (B)	1. Angle Plate 12"
15			2. Bench Vice
			3. Surface Plate with stand
16	Project lab (Vehicle Development)	W-4 (B)	Furtinure and Tools