

MANIPAL UNIVERSITY JAIPUR
SCHOOL OF AUTOMOBILE, MECHANICAL & MECHATRONICS ENGINEERING
LABORATORY DETAILS

DEPARTMENT OF MECHANICAL ENGINEERING

HoD: Prof. Rahul Goyal

S. No.	Department	Building	Room No.	Lab/Workshop	Lab Incharge	Facilities
1	Mechanical	1AB	123 1B	CAD Lab	Dr. Ravi Kumar Gupta	Creo software: 50 users
						Mathcad software: 50 users
						ANSYS software: 30 Users
2	Mechanical	1AB	Room No: 016	Metrology Lab	Mr. Ravindar Jhorar & Dr. Vimal Kumar Pathak	Optical Comprator Magnification
						Gear Tester Parkinson
						Gear Concentric Tester
						Tool Carriage Micrometer
						Height Gauge
						Tool Maker Microscope
						Screw Thread Micrometer
						Profile Projector (Vertical Type)
						Polar Plainimeter
						Surface Roughness Tester
Dead Weight Tester						

3	Mechanical	1AB	Room No: 016	Heat Transfer	Mr. Ankur Srivastava & Dr. Ravi Kumar Sharma	Apparatus of thermal conductivity of metal rod
						Apparatus of Thermal Conductivity of Composite Plane Walls
						Apparatus of Heat Transfer Through Lagged Pipe
						Apparatus of Thermal Conductivity of Insulating Material
						Apparatus of Heat Transfer In Pin Fin
						Apparatus of Heat Transfer In Force Convection Apparatus
						Apparatus of Heat Transfer In Natural Convection
						Apparatus of Shell And Tube Heat Exchanger
						Apparatus to Find Emissivity Of A Test Plate.
						Apparatus To Find Stefan Boltzman Constant
						Unsteady State Heat Transfer Apparatus
						Drop And Film Condensation Apparatus
						Critical Heat Flux Apparatus
4	Mechanical	1AB	Room No: 016	RAC Lab	Mr. Rahul Khatri & Mr. Hemant Raj Singh	Vapour Compressor Test Rig
						Air Conditioner Trainer
						Evaporative Cooler
						Natural Cooling Tower
						Vapour Absorption Refrigeration System
						Water to Water Heat Pump
						Anemometer
						Vacuum Pump

5	Mechanical	Workshop	Ground Floor (Workshop) (003)	Vibration Lab	Mr. Arpit Khandelwal	Static and Dynamic Balancing Test Rig
						Apparatus of Whirling of Shaft
						Universal Vibration Apparatus
						Mechanical Governor set up
						Gyroscope set up
6	Mechanical	Workshop	First Floor (Workshop)	Basic Workshop Practice	Dr. Ashish Sharma	Bench vice
						Cut section of IC engine
						Saw, files, cutter, Bosch cutting tools
7	Mechanical	Workshop	Ground Floor (Workshop) (005)	Foundry & Smithy Shop & Welding Shop	Mr. Anurag Joshi & Mr. Shyam Sunder Sharma	Foundry
						Die Casting Machine/ Centrifugal Die Casting
						Radiation Pyrometer
						Smithy
						Arc welding
						TIG/MIG/Seam/Spot Welding Machine
						Arc welding transformer
						Gas welding Set
						Clay Washer VCW
						Mould Hardness Tester
						Flowability Tester
Ultrasonic Flaw Detector						

8	Mechanical	Workshop	Ground Floor (Workshop) (003)	Machine Shop	Mr. G S S Adithya & Dr. Ashish Goyal	All Geared Head Lathe Machine
						Light Duty Lathe Machine (6)
						Precision Gear Head Lathe Machine
						Table Drilling Machine
						Bench Grinder (4)
						Vernier Calliper Power Hacksaw Machine
						Universal Milling Machine
						Hydraulic Surface Grinding Machine
						Universal Cylindrical Grinding Machine
						Shaper Machine
						Electric Drilling Machine
						Milling Machine
						Hydraulic Surface Grinder
						ZNC Electrical Discharge Machine
Lathe Tool Dynamometer						
Drill Tool Dynamometer						
9	Mechanical	Workshop	Ground Floor (Workshop) (003)	CNC Lab	Dr. Santosh Patil & Dr. Saurabh Dewangan	CNC Lathe machine
						CNC Milling Machine
						Impact Hammer Machine
						Minimum Quantity Lubrication Setup

10	Mechanical	Workshop	Ground Floor (Workshop) (004)	I C Engine Lab	Dr. Shashi Bhushan	4 Stroke I Cylinder Diesel Engine With Hydraulic Dynamometer
						Saybolt Viscometer With Digital Controller
						4 Stroke 1 Cylinder Diesel Engine with DC. Generator
						Four Stroke Three Cylinder Petrol Engine Test Rig
						Four Stroke Four Cylinder Diesel Engine Test Rig
						4 Stroke 1 Cylinder Diesel Engine With Mechanical Rope Brake Dynamometer
						Air Compressor Test Rig
						Four Stroke Four Cylinder Petrol Engine Test Rig
						Sectional 4 Stroke Single Cylinder Petrol Engine for Valve Timing
11	Mechanical	1AB	115	CLIC Lab	Mr. Rakesh Kumar & Mr. Ravi Kumar Gupta	CATIA , ABAQUS, TOSCA OPTIMIZATION etc.
12	Mechanical	1AB	117	Bionac Lab	Dr. Sanchita Bandyopadhyay-Ghosh & Dr. Subrata B Ghosh	Research Lab
13	Mechanical	2AB	010	EnBioMatRIC Lab	Dr. Sanchita Bandyopadhyay-Ghosh	Research Lab
14	Mechanical	1AB	315	NICOP Lab	Dr. Ravi Kumar Sharma	Research Lab
15	Mechanical	1AB	205	MSRC Lab	Dr. Dhaneshwar Mishra	Research Lab