





Department of Mechanical Engineering

Details of departmental laboratories

Lab 01:	Thermodynamics Lab	Lab No: B 119	Area: 74.24 sq.m.
Lab Incharge:	Prof. V.G.Kokre		
Laboratory Resources:	Bomb Calorimeter, Junkers Gas Calorimeter, Separating and Throttling Calorimeter, Orsat Apparatus, Redwood Viscometer, Multi Stage Reciprocating Air Compressor, Cooling Tower Test Rig		
Utilization of Laboratory:	Third Year		


Lab 02:	CAD Lab	Lab No: B 104	Area: 134.4 Sq.m.
Lab Incharge:	Prof. B.M. Netake		
Laboratory Resources:	Computers-1.Lenovo Workstations P-300 Intel core i7-4790 8GB DDR3 RAM, 500GB HDD, 2GB Graphic K620 Keyboard, Optical Mouse 2.Monitor Lenovo 18.5" LED		
Utilization of Laboratory:	Second Year		




CSMSS
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Lab 03:	Fluid Mechanics Lab	Lab No: B-112	Area: 74.24Sq.m
Lab Incharge:	Dr. Manish Kumar		
Laboratory Resources:	Apparatus For Pressure Measurement Devices, Apparatus For Verification Of Bernoulli' S Equation, Flow Measurement By venturimeter & Orifice meter, Orifice & Mouthpiece Apparatus, Redwood Viscometer, Measurement Of Velocity Of Fluid By Using pitot Tube, Pipe Friction Apparatus (Friction Factor For Pipes Of Different Sizes)		
Utilization of Laboratory:	Second Year		

Lab 04:	Heat Transfer Lab	Lab No: B113	Area: 74.24 sq.m.
Lab Incharge:	Prof. E.S.Ugale		
Laboratory Resources:	Experimental Setup Of Thermal Conductivity Of Metal Rod, Experimental Setup Of Heat Transfer Through Natural Convection, Experimental Setup Of Heat Transfer Through Forced Convection, Experiment Setup Of Parallel And Counter Flow Heat		




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	Exchanger.	
Utilization of	Third Year	

Lab 05:	Automobile Lab	Lab No: Ground Floor	Area: 74 sq.m.
Lab Incharge:	Prof.S.R.Khiste		
Laboratory Resources:	Cut section of petrol engine used in automobile, Cut section of diesel engine used in automobile three cylinder 4 stroke, Single plate clutch, Sliding mesh gear box, Rigid axle suspension system, Steering assembly (with steering gear box and tie rods).		
Utilization of Laboratory:	Third Year		


Lab 06:	RAC Lab	Lab No: B115	Area: 89.5 sq.m.
Lab Incharge:	Prof. R.S.Surase		
Laboratory Resources:	Refrigeration Test Rig, Ice Plant Test Rig, Domestic Refrigerator Test Rig, Air Conditioning Test Rig, Water Cooler Test Rig, Vapor Absorption Test Rig, Humidity Measurement Hygrometer,		




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	,Centrifugal Compressor, Rotary Vane Compressor	
Utilization of Laboratory:	Third year	


Lab 07:	Workshop	Lab No: B111	Area: 226.2sq.m.
Lab Incharge:	Dr.B.D.Shinde		
Laboratory Resources:	All Geared Lathe Machines- Plane Turning/ Facing/Step Turning, Bench Grinder, Milling Machine & Cutter Machine, Slotting Machine, Power Saw.		
Utilization of Laboratory:	First/Second year		



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Lab 08:	Automation Lab	Lab No: B	Area: 74.24sq.m.
Lab Incharge:	Prof.S.B.Lahane		
Laboratory Resources:	Pump Control For overhead Water Tank Level Maintenance, Temp Measurement & Control Using Rtd, A.C.Servo Motor Speed/Torque Characteristics, Pid Controller An Experiment on Various Modes of Control Action, Speed Measurement & Control of Pm Dc Motor From Scada & Plc.		
Utilization of Laboratory:	Final Year		