






Systems In Mechanical Engineering Lab

<p>Description</p>	<p>This lab is well established and fully equipped. The subjects covered in this lab are Fundamentals of Systems In Mechanical Engineering Total area of Laboratory:- 90.21 Sq.Mtr.</p>
<p>Major Equipments</p>	<p>Model of Bobcock & Wilox Boiler Model of Lancashire Boiler Cut section model of two and four stroke petrol and diesel engines Slide crank mechanism Reciprocating Engine Whitworth quick return Oscillating cylinder Lab Cost Rs. 2,21,580/-</p>
	

Computer Aided Design, Drafting & Manufacturing (CAD LAB-I)

<p>Description</p>	<p>This lab is well established and fully equipped. The subjects covered in this lab are SMD, CAE, AIML, CIM, Total area of Laboratory:- 90.56 Sq. Mtr</p>
<p>Major Equipments</p>	<p>CAM works Education (100 students kit) Ansys Workbench 19.1, Matlab, Solid CAM CFD 19.1, Auto CAD, 24 PCs with power backup, 1 server Lab Cost Rs. 26,39,842/-</p>
	

Computer Aided Engineering (CAE LAB-II)

Description	This lab is well established and fully equipped. The subjects covered in this lab are DTS, MSAL, DAL Total area of Laboratory:- 90.56 Sq. Mtr
Major Equipments	CAM works Education (100 students kit) Ansys Workbench 19.1, Matlab, Solid CAM CFD 19.1, Auto CAD, 24 PCs, Lab Cost Rs. 22,33,650/-
	

Measurement Laboratory (ML) Lab

Description	This lab is well established and fully equipped. The subjects covered in this lab are Metrology and Quality Control Total area of Laboratory:- 91.45 Sq. Mtr
Major Equipments	Profile Projector, Monochromatic light source with optical flat set, surface tester, Floating carriage micrometer (college model), Dial calibration tester, dial Auto collimator with angle Dekker, Sine center Lab Cost 8,00,075/-





Engineering Thermodynamics Lab

Description	This lab is well established and fully equipped. The subjects covered in this lab are Engineering Thermodynamics Energy Engineering I Total area of Laboratory:- 90.21 Sq. Mtr
Major Equipments	Joule's experiment to validate first law of thermo. With power supply , Junker's gas calorimeter , Bomb Calorimeter Apparatus , Steam Boiler Experimental Set up , Cloud & pour point apparatus , Flash & fire point apparatus Lab Cost Rs. 11,86,358/-




Hydraulics and Pneumatics Lab



<p>Description</p>	<p>This lab is well established and fully equipped. The subjects covered in this lab are Hydraulics and Pneumatics, FPCL Total area of Laboratory:- 90.21 Sq. Mtr</p>
<p>Major Equipments</p>	<p>Advanced electro-Hydraulic Trainer kit with incorporation of gear pump test facility , Advanced customized Electro Pneumatic Trainer , Noiseless Air Compressor Lab Cost Rs. 382219/-</p>
	

Applied Thermodynamics Lab



<p>Description</p>	<p>This lab is well established and fully equipped. The subjects covered in this lab are Applied Thermodynamics Total area of Laboratory:- 90.21 Sq. Mtr</p>
<p>Major Equipments</p>	<p>Computerized VCR Engine set up , Engine test set up , Study of carburetor , Study of fuel pump & injector , Study of ignition system Lab Cost Rs.</p>

	16,19,690/-
	



Kinematics of Machine (KOM) Lab

<p>Description</p>	<p>This lab is well established and fully equipped. The subject covered in this is Kinematics of Machine Total area of Laboratory:- 90.21 Sq. Mtr</p>
<p>Major Equipments</p>	<p>Involute gear tooth profile generator Epicyclic gear train apparatus, Cut section model of differential gear box Lab Cost Rs. 2,86,115/-</p>
	

Engineering Materials & Metallurgy Lab

<p>Description</p>	<p>This lab is well established and fully equipped. The subjects covered in this lab are Engineering Materials & Metallurgy Total area of Laboratory:- 91.45 Sq. Mtr</p>
<p>Major Equipments</p>	<p>Heat treatment furnace , Jominey end quench test for Hardenability , Impact test machine , Vickers hardness test Brinell & Poldi hardness test , Magnetic particle & dye penetrant test , Microscope RV3, Lab Cost Rs. 7,79,268/-</p>
	

Fluid Mechanics Lab

<p>Description</p>	<p>This lab is well established and fully equipped. The subject covered in this lab is Fluid Mechanics. Total area of Laboratory:- 90.21 Sq. Mtr</p>
<p>Major Equipments</p>	<p>Pressure measuring apparatus, Redwood Viscometer, Bernoulli's Theorem Apparatus, Ventury meter & Orifice Meter Apparatus , Orifice & Mouth Piece Apparatus Lab Cost 1,80,000/-</p>
	

Mechatronics Lab



Description	This lab is well established and fully equipped. The subject covered in this lab is Mechatronics. Total area of Laboratory:- 90.21 Sq. Mtr
Major Equipments	Study of data acquisition system PLC Based lift simulator module PLC Programming trainer kit Flow control system trainer DC Motor speed control trainer Set up for calibration of thermocouple / RTD Displacement measurement LVDT set up Lab Cost Rs. 4,88,109/-



Heat and Mass Transfer Lab

<p>Description</p>	<p>This lab is well established and fully equipped. The subject covered in this lab is Heat and Mass Transfer. Total area of Laboratory:- 90.21 Sq. Mtr</p>
<p>Major Equipments</p>	<p>Stefan boltzman apparatus Heat pipe demonstrator Plate type Heat Exchanger Heat transfer coefficient in natural convection Heat transfer coefficient in force convection Lab Cost Rs. 2,69,156</p>

Skill Development Lab

Description	This lab is well established and fully equipped. The subject covered in this lab is Skill Development. Total area of Laboratory:- 90.21 Sq. Mtr
Major Equipments	IC Engine (4 Stroke) Valve Assembly Pressure Reducing Valve Sluice Valve, Steam Stop Valve Hermetically Sealed Compressor Tail Stock Assembly of Lathe Machine Hydraulic Actuator Lab Cost Rs. 3,60,000/-
	


Turbo Machinery Lab

Location of Laboratory	Mechanical Engineering Dept. G25
Area of Laboratory	90.21
Laboratory Incharge	Prof. A A Datarkar
Lab Assistant	Mr. S S Dandawate
Lab Cost	Rs. 2,51,065/-
	

Dynamics of Machinery Lab

Location of Laboratory	Mechanical Engineering Dept. G20
Area of Laboratory	90.21 Sq. Mtr
Laboratory Incharge	Prof. S.P Dhamone
Lab Assistant	Mr. S S Dandawate
Lab Cost	Rs. 8,25,006/-
	

Heating, Ventilation, Air Conditioning and Refrigeration Lab

Location of Laboratory	Mechanical Engineering Dept. G22
Area of Laboratory	90.21 Sq. Mtr.
Laboratory Incharge	Prof. N R Singh
Lab Assistant	Mr. S S Dandawate
Lab Cost	Rs. 8,25,006/-
	

Solid Mechanics Lab

Location of Laboratory	Mechanical Engineering Dept. G28
Area of Laboratory	68.14 Sq. Mtr.
Laboratory Incharge	Prof. N. R .Raut
Lab Assistant	Mr. V. V. Pawar
Lab Cost	Rs. 4,93,687/-

