




SR NO	Name of Laboratory	Major Equipment	Laboratories Photos
1	HVAC & R	<ul style="list-style-type: none"> ➤ Vapour compression refrigeration system ➤ Air conditioning system 	
2	Dynamic of machinery /Kinematics of Machinery	<ul style="list-style-type: none"> ➤ Universal vibration test rig ➤ Static & dynamic balancing ➤ Whirling of shaft ➤ Governor ➤ Gyroscopic test rig 	 

3	<p>Measurements & Automation/ Material Testing</p>	<ul style="list-style-type: none"> ➤ Electro pneumatic trainer kit ➤ Electrohydraulic trainer kit ➤ Pressure Gauge ➤ Strain Gauge ➤ Capacitive transducer ➤ Stroboscope ➤ Rotameter ➤ Binocular Microscope ➤ Trinocular Microscope ➤ Microscopic specimen ➤ Single Disc Polishing Machine ➤ Mechanical Comparator ➤ Floating Carriage micrometer ➤ Gear tooth vernier caliper ➤ Optical Profile Projector ➤ Bevel Protractor ➤ Snap gauge, Slip gauge, ➤ Radius gauge ➤ Pneumatic Comparator ➤ Sine Bar ➤ vernier caliper ➤ Dial vernier caliper ➤ Digital vernier caliper ➤ Outside Micrometer 	 
4	<p>Product Design & Development /Project Lab</p>		

5

Thermal Engineering

- Thermal conductivity of metal rod
- Pin Fin apparatus
- Set up for forced convection
- Unsteady state Heat Transfer
- Parallel & counter flow Heat Exchanger
- Shell & tube Heat Exchanger
- Stefan Boltmans Apparatus
- Heat Transfer through Condensation
- Thermal conductivity of insulating powder
- Cochran boiler model
- Babcock and wilcox boiler model
- Corish bolier model
- Lancashire bolier model
- Sudgens super heater
- steam engine exturnal model
- Lomotive bolier model
- Fusible plug
- lever safety valve
- Spring loaded safety valve
- Ball float steam trar
- Four stroke diesel engine
- Four stroke petrol engine



6	CAD/CAM		
7	IC engine and Turbo Machinery	<ul style="list-style-type: none"> ➤ Single cylinder four stroke diessel engine ➤ four stroke multicylinder petrol engine ➤ Single plate coil clutch ➤ Diaphragm type clutch ➤ Synchromesh gear box ➤ Differential gear box ➤ Mechanical brake system ➤ Box spanner and amp; fixed spanner tool set ➤ Offset ring spanner tool set 	
8	Basic Mechanical Engineering		