

**Laboratory Detail**

<b>S. No</b>	<b>Name of the Physical Laboratory</b>	<b>Name of the Curriculum Laboratory</b>	<b>Officer In-charge</b>	<b>Name of the Important equipment</b>	<b>Name of the technical staff</b>
1	Workshop	Mechanical Workshop Lab	Dr. Shailendra Kumar (Workshop Superintendent)	Lathe Machine, Milling, Shaper Machine, Drilling Machine, etc. Arc welding, Gas welding, Fitting Tools, Filing Operations, Marking, Chipping, sheet metal work, carpentry, carpentry power tools	Mr. Ashendra Singh (Deputy W/S)
		Manufacturing Processes Lab			Mr.Samim, Mr.Kanhya Lal, Mr.Rahul Vishwakarma, Mr.Majid, Mr.Ashish
2	Fluid Lab	Fluid Mechanics Lab	Mr. Ajai Kumar Singh	Pitot Static Tube Apparatus, Reynold's Apparatus, Venturi Meter And Orifice Meter Bendmeter Apparatus, etc.	Mr. Arun Singh  (Lab Assistant)
		Fluid Machinery Lab		Reciprocating Pump Test Rig, Centrifugal Pump Test Rig, Pelton Wheel Turbine Test Rig, etc	
3	Material Testing Lab		Mr. Vikas Dwivedi	Impact Testing Apparatus, Hardness Testing Machine Apparatus, UTM etc.	Mr. Siddharth (Lab Assistant)
4	Thermal Lab	Applied Thermodynamics Lab	Mr. Tanuj Kumar Gupta/	Babcock And Wilcox Boiler Model, Lancashire Boiler Model, etc.	Mr. Virendra Pratap Singh (Lab Assistant)

		<b>Refrigeration &amp; Air Conditioning Lab</b>	<b>Dr. Anand Swaroop Verma</b>	Refrigeration Test Rig, Mechanical Heat Pump Test Rig, etc.	Mr. Arun Singh (Lab Assistant)
<b>5</b>	<b>Heat &amp; Mass Transfer Lab</b>		<b>Dr. Anand Swaroop Verma</b>	Natural Convection Vertical Cylinder, Forced Convection Through Heat Pipe, Stefan Boltzmann Apparatus, etc.	Mr. Virendra Pratap Singh

6	<b>Measurement and Metrology Lab</b>		<b>Dr. Manish Dixit</b>	LVDT, Bore Gauge, Three wire method, etc	Mr. Arun Singh
7	<b>Drawing Hall (ME Department)</b>	<b>Engineering Graphics &amp; Design Lab</b>	<b>Mr. Tanuj Kumar Gupta</b>	Lettering and Dimensioning Practices, Title Block, Lines, Lettering practice, Plain Scales, Conic Sections, Projection,	Mr. Virendra
		<b>Computer Aided Machine Drawing-I Lab</b>		Orthographic projections, Thread forms, Joints, Couplings, Assembly drawings	
		<b>Computer Aided Machine Drawing-II Lab</b>		Limits, Fits and Tolerances, Part Modeling & Assemblies	
8	<b>Theory of Machine Lab</b>		<b>Dr. Shailendra Kumar</b>	Gyroscope, Governor , Models of different mechanism, Critical speed of shaft etc	Mr. Siddharth Srivastava
9	<b>CAD/CAM Lab / Research Lab</b>		<b>Dr. Manish Dixit</b>	Drawing and Design software, CNC Milling, 3-D printing, Robotic Arm	Mr. Manish Kumar
10	<b>IC Engine &amp; Automobile Lab</b>		<b>Dr. Manish Dixit</b>	Petrol Engine Model, Clutch Model, Two Stroke Diesel Engine Model, etc.	Mr. Virendra Pratap Singh

