



Smt.Kamala & Sri Venkappa M.Agadi College of Engineering and Technology,

Approved by AICTE, Dehli, & Affiliated to VTU,Belgaum.

Laxmeshwar-582116 Dist-Gadag

Department Of Mechanical Engineering

D/SKSV/ ME/2022-23/ACA-36

**MECHANICAL DEPARTMENT CARPET AREA & LAB DETAILS.**

Sl No	Name of the Lab	Number	Total Area of Lab in Sq.mtr	Requirement	Total Amount in Rs.	Major equipment & software tools.
1	Work shop	16001	203	200	2, 46,831=00	Power Hack Saw Machine, Welding Transformer, Bench Drilling Machine, Bench Grinding Machine, Bench vices.
2	CAED Lab	3101	100	100	4,99,300	Computers, Printer, 10KVA UPS & Solid-edge software.
3	Metallographic & Material Testing Lab	4104,410 5	135	100	9,81,392=00	Universal Testing Machine, Metallurgical Microscope, Impact Testing Machine, Torsion Testing Machine Rockwell & Brinell Hardness Testing Machine,MP Test.
4	Foundry & Forging Lab	7001	130	200	2, 49,056=00	Universal Strength Machine, Heart for smithy (Gas Fired), Heat Treatment Furnace, Sand Testing Equipments.
5	Machine shop	7001	335	200	1369,623=00	Lathes, Shaping Machine, Radial Drilling Machine, Surface Grinding Machine, Milling Machine
6	Metrology & Measurements Lab	4101,410 2	154 (77+77)	100	4,39,329=00	Pressure Gauge ,Thermocouple, LVDT, Load Cell , & Strain Gauge, Profile projector, Lathr tool Dynamometer.
7	Fluid Machinery Lab	4006,400 3	162 (97+65)	200	10, 84,270=00	Pelton Turbine, Francis Turbine, Kaplan Turbine, Centrifugal Pump-single stage, Centrifugal Pump Multistage Air Compressor, Venture-Orifice-Flow nozzle-Rota meter Combined setup
8	1. Energy Conversion Engg.Lab. 2. Heat Transfer Lab.	4004,400 5	196	200+100	15, 63,818=00	<u>ECE Lab.</u> 4 stroke singe cylinder petrol engine(VCR), P C Based 4 stroke singe cylinder Diesel engine. 2 stroke petrol engine, 4 stroke petrol engine (4 Cylinder) <u>HT Lab.</u> Thermal conductivity of metal rod, Heat Transfer through composite walls, Heat Transfer in Pin-Fin, Heat Transfer by Natural Connection,
9	Design Lab	4106	130	100	2, 75,579=00	Journal Bearing Apparatus Diffused Light Polari scope Apparatus Static & Dynamic Balancing Apparatus
10	CIM / CAMD/ Lab CAMA Lab	4109	78	100	34,20,241=00	Computers, Printer, CNC Machine, 10KVA UPS, Solidedge, Ansys 13.0 , SeeNC Mill & Turn Softwares .
<b>Total</b>			<b>1623 sq.mt.</b>	<b>1600 sq.mt.</b>	<b>Rs.1,01,29,379.00</b>	

\* Class Room GF 100 Sq.mtr, Class Room FF 100Sq.mtr, Drawing Hall FF 166 Sq.mtr, and HOD Office 100 Sq.mtr