



**ENGINEERING & TECHNOLOGY PROGRAM**  
**DEPARTMENT OF MECHANICAL ENGINEERING**

RUSHIKONDA, VISAKHAPATANAM 530045 | WEBSITE: [www.gvpcdpgc.edu.in](http://www.gvpcdpgc.edu.in)

(Approved by A.I.C.T.E, Permanently Affiliated to Andhra University) An

ISO 9001:2015 Certified Institute.

Sl. No.	Name of the Laboratory	Name of the important Equipment
1	WORKSHOP	1. Carpentry
		2. Fitting
		3. Tin smithy
		4. House Wiring
2	FUELS AND MECHANICS LAB	1. Two stroke petrol engine
		2. Pressure gauge with Dead weight Testers
		3. Cleveland Open cup Tester
		4. Abels Flash point apparatus
		5. Conradson Carbon residue apparatus
		6. Bomb Calorimeter
		7. Redwood Viscometer I
		8. Redwood Viscometer II
		9. Flywheel
		10. Gravesand Apparatus
		11. Coefficient of Friction Apparatus
		12. Bell-Crank lever apparatus
3	MANUFACTURING TECHNOLOGY LAB	1. Lathe tool Dynamometer Component with software
		2. Drill Dynamometer Component with software
		3. Fluke 59 Max+ IR Thermometer
		4. 4' 6" Lathe Machine Light Duty
		5. 4' 6" Lathe Machine Heavy Duty
		6. 6' Lathe Machine
		7. Capstan Lathe Machine With Coolant Pump, Turret Head, Automatic bar Feed Attachment
		8. Tool and Cutter Grinding
		9. Shaping Machine
		10. Universal Milling Machine
		11. 8" Power Hacksaw Cutting Machine



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Sl. No.	Name of the Laboratory	Name of the Important Equipment
4	MECHANICAL ENGINEERING LAB - II	1. Air compressor
		2. Multi-cylinder Petrol engine.
		3. Motorized gyro scope
		4. Balancing equipment
		5. VCR engine
5	METROLOGY LAB	1. Slip Gauges
		2. Profile Projector
		3. Tool Makers Microscope
		4. Auto Collimator
6	MECHATRONICS LAB	1. Programmable Logic Controller
		2. Lift model
		3. Sensor Training Kit
		4. Linear position or Force applications
		5. LVDT (Linear variable differential
		6. transformer
7	CAD/CAM LAB	1. ANSYS (2019 R2)
		2. AUTOCAD (EDUCATIONAL VERSION)
		3. INTEL CORE I3, 8GB RAM, 500 GB HDD LENOVO THINK CENTER E73 MODEL – 39 COMPUTERS
8	INDUSTRIAL ENGINEERING LAB	1. Pin Board Apparatus
		2. Normal Distribution.
		3. Control Chart For Fraction Defective
		4. Bolt, Washer And Nut Assembly
		5. Assembly of Electric Tester.
		6. Electric Toaster
		7. Bulb Holder Assembly



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9	HEAT AND MASS TRANSFER LAB	1. Thermal conductivity of composite wall
		2. Measurement of Emissivity
		3. Dropwise and film wise condensation
		4. Pin-fin Apparatus Forced convection
		5. Natural Convection

