Madanapalle Institute of Technology and Science
Department of Mechanical Engineering
Labs

S. No	Name of the Laboratory	Name of the Important equipment
1	Workshop Practice  	1.Wood working lathe machine 2. Carpentry vices 3. Arc Welding machine 4. Gas welding machine 5. Muffle Furnace 6. Cope boxes and drag Boxes 7. Open hearth furnace
2	Mechanics of Solids & Material Science Practical's 	1. Hardness Test Machine 2. Universal Test machine 3. Torsion Test machine 4. Impact Test machine 5. Spring Testing machine 6. Optical Microscope 7. Double Disc Polisher 8. Bending Test equipment
3	Production Techniques Practical's – I 	1. Mechanical Press 2. Hydraulic Press 3. Injection Moulding 4. Spot Welding 5. Sand Properties Tester
4	Dynamics Lab 	1. Whirling of shafts apparatus 2. Universal Governor apparatus 3. Cam Analysis Machine 4. Motorized Gyroscope 5. Vibrational analysis setup

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5	Heat Transfer Practical's 	1. Overall heat transfer coefficient of composite slab apparatus 2. Heat transfer coefficient in forced convection 3. Experiment on critical heat flux apparatus 4. Study of two- phase flow Heat transfer in drop and film wise condensation 5. Performance test on parallel and counter flow heat exchanger
6	Production Techniques Practical's – II 	1 Lathe Machines 2. Milling machine 3. Slotting machine 4. Radial Drilling machine 5. Shaping machines 6. Surface Grinding machine 7. Tool and cutter grinder 8. Bench Grinding machine
7	I.C. Engines 	1. Cut section of Single cylinder four stroke Diesel Engine 2. Cut section of Single cylinder two stroke Petrol Engine 3. Single cylinder four stroke Diesel Engine 4. Twin cylinder four stroke Diesel Engine 5. Single cylinder two stroke Petrol Engine 6. Single cylinder two stroke Variable compression ratio Petrol Engine 7. Dual cylinder two stage reciprocating air compressor 8. Maruti 800 cc petrol engine for Assembly/Disassembly

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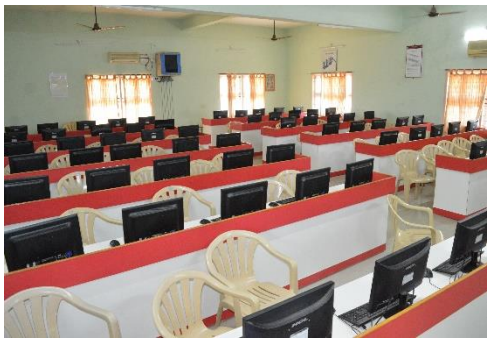
8	Fluid Mechanics & Machines Practical's 	1. Venturimeter 2. Bernoulli's theorem Apparatus 3. Multi Stage centrifugal pump
9	CAD/CAE/CAM Practical's CAD/CAM lab -01 	Dell 22" LCD monitor Processor Intel (R) Core (TM) i5 -7500 CPU @3.40GHz Installed memory (RAM) 16.0 GB System Type 64 – bit operating system, x64 – based processor Hard Disk 1 TB, Graphics Card 4 GB
10	CAD/CAE/CAM Practical's CAD/CAM lab -02 	Compaq 18.5" LCD monitor Think pad INTEL i5 @3.20 GHz 4 GB RAM 500 GB HDD 1 GB Graphic Card
11	Instrumentation & Control Engineering Practical's 	1. LVDT Transducer 2. Thermocouple 3. Strain Gauge 4. Resistance Temperature Detector 5. Thermistor 6. Capacitive Transducer 7. Magnetic and Photo Electric Pickup 8. Vibration Analyzer 9. Rotameter 10. Dead Weight Pressure Gauge

		11. Mcleod Gauge 12. Anemometer 13. Load Cell
12	Machine drawing lab 	Processor Intel (R) Core (TM) i5 -6400 CPU @2.70GHz