

DEPARTMENT OF AERONAUTICAL ENGINEERING

PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY, KANURU, VIJAYAWADA.

<i>S.No</i>	Name of Laboratory	Name of the Equipment
1	Basic Work Shop	<ol style="list-style-type: none">1. Fitting2. Carpentry3. House Wiring4. Tin Smithy5. Black Smithy
2	Mechanics of Solids lab	<ol style="list-style-type: none">1. Universal Testing machine2. Simply Supported and Cantilever Apparatus3. Torsion Testing machine4. Brinell And Rockwell Hardness testing Machine5. Spring Testing Machine6. Izod and Charpy Testing Machine7. Shear Testing Machine
3	Mechanics of Fluids lab	<ol style="list-style-type: none">1. Venturimeter Test Rig2. Test Rig for Flow over Notch3. Pipe Friction Apparatus4. Bernoullis Apparatus5. Test Rig for Orifice Meter6. Mouth piece apparatus
4	Thermodynamics & Heat Transfer Lab	<ol style="list-style-type: none">1. Forced convection apparatus.2. Natural convection apparatus3. Parallel and counter flow heat exchanger.4. Emissivity apparatus.5. Stefan Boltzman Apparatus.6. Drop and film wise condensation.7. Critical Heat flux apparatus.8. Refrigeration Test Rig9. Air Conditioning Test Rig10. Morse test on multi- cylinder piston engine11. Multi- cylinder piston engine

		12. Diesel engine apparatus
5	Aircraft Materials & Production Lab	<ol style="list-style-type: none"> 1. Lathe Machine 2. Radial Drilling Machine 3. Tapping and Dying equipment 4. Riveting equipment 5. Shaper 6. Planar 7. Milling Machine 8. Grinding Machine 9. Welding, Soldering and Brazing Equipment 10. CNC Machine
6	Aero Modelling & Flight Simulation Lab	<ol style="list-style-type: none"> 1. Radio Controllers 2. Electric Motors 3. Propellers 4. Material for preparing body 5. Servos 6. Batteries 7. Flight Simulator
7	Aerodynamics and Propulsion Lab	<ol style="list-style-type: none"> 1. Low Speed Subsonic Wind Tunnel 2. Symmetric Airfoil Model 3. Cambered Airfoil Model 4. Cylinder With pressure taps 5. Airfoil with pressure taps 6. Semi sphere model 7. Sphere model 8. Disc model 9. Wedge model 10. Automobile model etc. 11. Smoke generator and its models
8	Aircraft Structures lab	<ol style="list-style-type: none"> 1. UTM-20/40 Tonnes with Jigs and Fixture and precision extensometers. 2. Deflection Test Rig 3. NDT Equipment 4. Strain Measuring Equipment
9	Simulation Lab	<ol style="list-style-type: none"> 1. Personal Computers, P-IV with 512 MB RAM, and Parallel processing computational facility for 30 Nos 2. Educational version licenses for MAT Lab, Auto CAD, ANSYS and Pro-E
10	Computational Aerodynamics & Airframe Design Lab	
11	Flight Vehicle Design lab	

Above list of Laboratories is sharing with Mechanical Engineering.