




**SRI PADMAVATI MAHILA VISVA VIDYALAYAM**  
 (WOMEN'S UNIVERSITY)  
 TIRUPATI-517502.

**SCHOOL OF ENGINEERING AND TECHNOLOGY**  
 DEPARTMENT OF MECHANICAL ENGINEERING

**WORKSHOP AND MANUFACTURING PRACTICES**

**Key Features:** The Engineering workshop is aimed to provide the basic working knowledge of the production and properties of different materials used in the industry and to apprise the student of basics and applications of various types of tools, equipment and techniques used in manufacturing to facilitate shaping of these materials into useful components. The Engineering workshop should impart a good theoretical background as well as give a sound practical knowledge to a student in various trades such as Carpentry, Fitting and House wiring to serve the society in improving the living standards. These trades provide basic practical activities associated with all branches of engineering.

S.No.	Name of the Experiment	Specification and Key Equipment Details	Equipment Photo
1.	Carpentry: Cross Lap Joint T Bridle Joint	Carpentry Vice and Carpentry Tools	

2.	<p>Fitting: V Fitting Square Fitting</p>	<p>Bench Vice and Fitting Tools</p>	
3.	<p>House Wiring: 1. Identification of basic electrical and electronic components. 2. (a) Two-switches, two-bulbs in parallel connection. (b) Staircase connection. 3. Soldering process.</p>	<p>Wiring Tools</p>	
4.	<p>Manufacturing Practice on Lathe 1. Facing operation 2. Straight turning and Chamfering</p>	<p>Lathe Machine: Flame hardened bed. Length of the Bed : 4 1/2 feet; Lead Screw: 4 TPI; Inch Thread: 4 to 24; Metric thread: 1 to 6 mm;</p> <p><u>With following accessories/tools:</u> Electric motor and Reverse forward Switch; ~160 mm 3 Jaw Chuck; Chuck Plate; Tool Post Key; Dead Center; Carbide Tipped or HSS Tool Set (Single point, Round Nose, Knurling, Parting, Chamfering, Boring bar, Facing/turning, V Threading, Square Threading, Round Corner forming)</p>	



**Lab Incharge**

**Mrs.V.Jyotsna Kalpana**