

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA****KAKINADA-533003, Andhra Pradesh, India**

R-19 Syllabus for MECHANICAL JNTUK

<b>I Year – II SEMESTER</b>		<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
		<b>0</b>	<b>0</b>	<b>3</b>	<b>1.5</b>
<b>WORKSHOP PRACTICE LAB (ES1219)</b>					

**Prerequisite Course:** Basic knowledge on various engineering trades.

**Course Learning Objectives:** To impart hands-on practice on basic engineering trades and skills. Note:  
At least two exercises to be done from each trade.

<b>CO</b>	<b>Course Outcomes</b>	<b>POs</b>
1	Appreciate carpentry	3
2	Understand Fitting	2
3	Develop skill in Black Smithy	2
4	Understand House Wiring	2
5	Appreciate Tin Smithy and Assembly & Disassembly of Computer	3

**Syllabus:**

Trade:

- |                 |  |
|-----------------|--|
| 1. Carpentry    | 1. T-Lap Joint<br>2. Cross Lap Joint<br>3. Dovetail Joint<br>4. Mortise and Tenon Joint  |
| 2. Fitting      | 1. Vee Fit<br>2. Square Fit<br>3. Half Round Fit<br>4. Dovetail Fit  |
| 3. Black Smithy | 1. Round rod to Square<br>2. S-Hook<br>3. Round Rod to Flat Ring<br>4. Round Rod to Square headed bolt                                     |
| 4. House Wiring | 1. Parallel / Series Connection of three bulbs<br>2. Stair Case wiring<br>3. Florescent Lamp Fitting<br>4. Measurement of Earth Resistance |
| 5. Tin Smithy   | 1. Taper Tray<br>2. Square Box without lid<br>3. Open Scoop<br>4. Funnel   |
| 6. IT Workshop  | 1. Assembly & Disassembly of Computer  |