**17ME11P1- ENGINEERING WORKSHOP**

 **(Common to CE and ME)**

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| **Course Category** | Engineering Science  | **Credits** | 1 |
| **Course Type** | Practical | **Lecture-Tutorial-Practical** | 0-0-2 |
| **Prerequisite**  | Engineering Physics and Basics Electrical Sciences  | **Sessional Evaluation** | 40 |
| **Semester End Exam Evaluation** | 60 |
| **Total Marks** | 100 |

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| **Course****Outcome(s)** | Upon successful completion of the course, the students will be able to know the trades and do carpentry, fitting, tin-smithy, house wiring and foundry. |
| **Course Content** | **TRADES FOR EXERCISES:**At least two exercises from each trade: 1. **CARPENTRY**: Lap joint, Mortise and Tenon joint, Bridle joint.
2. **FITTING:** Square, V, Half round and dovetail fittings.
3. **TIN-SMITHY:** Tray, Cylinder, Hopper and Cone.
4. **HOUSE-WIRING:** One lamp controlled by one switch, Two lamps (bulbs) controlled by two switches, Staircase connection, Water pump connected with single phase starter.
5. **FOUNDRY**: Single-piece pattern, Two- piece pattern.

**TRADES FOR DEMONSTRATION:** 1. Machine Tools
2. Welding
3. Black Smithy

**TEXTBOOKSAND REFERENCE BOOKS:**1. Engineering Work shop practice for JNTU V. Ramesh Babu, VRB Publishers Pvt. Ltd.
2. Work shop Manual / P.Kannaiah/ K.L.Narayana/ SciTech Publishers.
3. Engineering Practices Lab Manual, Jeyapoovan, SaravanaPandian, Vikas publishers.
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