# 17ME12P1 - ENGINEERING WORKSHOP

(Common to EEE, ECE, CSE and IT)

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| **Course Category:** | Program Core | **Credits:** | 1 |
| **Course Type:** | Practical | **Lecture - Tutorial - Practical:** | 0-0-2 |
| **Prerequisite:** | Engineering Physics and Basics Electrical Sciences | **Sessional Evaluation:**  **Univ. Exam Evaluation:**  **Total Marks:** | 40  60  100 |

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| **Course Outcomes** | Upon successful completion of the course, the students will be able to: | |
| CO1 | To know the trades and do carpentry, fitting, tin-smithy, house wiring and foundry. |
| **Course Content** | LIST OF EXPERIMENTS  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, cone 4. **House-wiring:** One lamp controlled by one switch, Two lamps (bulbs) controlled by two switches, Stair- case 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 | |
| **Text Books and References** | 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. | |