# 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:** | 4060100 |

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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 EXPERIMENTSTRADES 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
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| **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.
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