

DEPARTMENT OF MECHANICAL ENGINEERING

17CMES81-ENGINEERING SKILLS PRACTICE LAB (UG)

A. BASIC CIVIL ENGINEERING

LIST OF EXPERIMENTS

Buildings:

1. Study of plumbing and carpentry components of residential and industrial buildings, Safety aspects.

Plumbing Works:

2. Study of pipeline joints, its location and functions: valves, taps, couplings, unions, reducers, elbows in household fittings.
3. Study of pipe connections requirements for pumps and turbines.
4. Preparation of plumbing line sketches for water supply and sewage works.
5. Hands-on-exercise: Mixed pipe material connection – Pipe connections with different joining components.
6. Demonstration of plumbing requirements of high-rise buildings.

Carpentry using Power Tools only:

7. Study of the joints in roofs, doors, windows and furniture.
Hands-on-exercise: Wood work, joints by sawing, planning and cutting.



HOD/MECH

**VINAYAKA MISSION'S RESEARCH FOUNDATION
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY**

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**17CMES81-ENGINEERING SKILLS PRACTICE LAB (UG)
B. BASIC MECHANICAL ENGINEERING**

LIST OF EXPERIMENTS

1. Tee – Fitting.
2. Vee – Fitting.
3. Preparation of a mould for a single piece pattern.
4. Preparation of a mould for a split piece pattern.
5. Half- Lap Joint in Carpentry.
6. Dove Tail Joint in Carpentry.
7. Lap Joint – Welding.
8. Butt Joint – Welding.



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