

# College of Engineering and Technology (CoET)

Weekly Report No: 15 from: 2025-10-20 to: 2025-10-24

## Weekly Work Summary

Day	Brief description of work performed	Hours
Monday	Learned the basics of soldering, including handling tools, techniques, and safety measures.	6.0
Tuesday	Studied how to design an electric circuit using an electric design tool, covering schematics and printing.	6.0
Wednesday	Focused on designing a printed circuit board (PCB) for a basic circuit, using CAD tools.	5.0
Thursday	Learned electronics troubleshooting techniques to identify and fix common faults in circuits.	6.0
Friday	Designed an audio amplifier circuit on a PCB, selecting the required components and tracing the layout.	5.0
	<b>Total hrs</b>	<b>28.0</b>

## SEQUENCE OF CREATING AN AUDIO AMPLIFIER CIRCUIT

No	Operation	Tools, Machinery, Equipment
1	Components was placed on the PCB following the circuit diagram	Capacitors, resistors, audio jack, LM86, speakers and
2	Carefully soldering the components to the PCB, ensuring clean soldering	soldering iron, wire, soldering wires, jumpers or trace
3	Attaching the power supply, audio input jack, and speaker to the circuit	Audio cable, Battery, speaker, PCB and
4	Powering the circuit for testing, play an audio signal, and test the output	Multimeter, battery, speaker, audio jack, laptop as a source

Signature Training Officer

Date