College of Engineering and Technology (CoET)

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

# Weekly Work Summary

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| 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 unit, covering schematics and principles. | 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 |
|  | Total hrs | 28.0 |

# SEQUENCE OF CREATING AN AUDIO AMPLIFIER CIRCUIT

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| --- | --- | --- |
| No | Operation | Tools, Machinery, Equipment |
| 1 | Components was placed on the PCB following the circuit diagram while ensuring proper orientation | Capacitors, resistors, audio jack, LM86, speakers and |
| 2 | Carefully soldering the components to the PCB, ensuring clean connections and no shorts between adjacent pins or traces | soldering gun, blower, soldering wires, jumpers |
| 3 | Attaching the power supply, audio input jack, and speaker to the respective terminals on the PCB. | Audio jack, Battery, speaker, PCB and |
| 4 | Powering the circuit for testing, play an audio signal, and test the output. Adjust any settings like volume | Multimeter, battery, speaker, audio jack, laptop as a source of signals |

Signature Training Officer

Date