**College of Engineering and Technology (CoET)**

**Weekly Report No: \_\_ from: to: \_\_\_\_\_\_**

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| **Day** | **Brief description of work performed** | **Hours** |
| **Monday** | Learned the basics of soldering, including handling tools, techniques, | 6 |
| and safety measures. |  |
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| **Tuesday** | Studied how to design an electric circuit using an electric design unit, covering schematics and principles. | 6 |
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| **Wednesday** | Focused on designing a printed circuit board (PCB) for a basic circuit, using CAD tools. | 5 |
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| **Thursday** | Learned electronics troubleshooting techniques to identify and fix common faults in circuits. | 6 |
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| **Friday** | Designed an audio amplifier circuit on a PCB, selecting the required components and tracing the layout. | 5 |
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| **Total hrs** | | 28 |

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| **SEQUENCE OF CREATING AN AUDIO APLIFIER CIRCUIT** | | |
| **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 ,P CB 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 |

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| **Signature Training Officer** | **Date** |