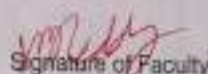


**IARE****INSTITUTE OF  
AERONAUTICAL ENGINEERING**(An Autonomous Institute affiliated to JNTU, Hyderabad)  
Durgam, Hyderabad - 500 043**LABORATORY WORK SHEET**Name of the Student MAHAKI SAI CHARANClass CSM-C Semester I<sup>st</sup>Course Code AMED02 Course Name Manufacturing PracticeName of the Course Faculty M. V. Mahidhar reddy Faculty ID IARE ID333Exercise Number 01 Week Number 01 Date 06 October 2023

Roll Number							
2	3	9	5	1	A	6	F2

**DAY TO DAY EVALUATION:**

Marks	Aim / Preparation	Algorithm / Procedure	Source Code	Program Execution	Viva - Voce	Total
		Performance in the Lab	Calculations and Graphs	Results and Error Analysis		
Max. Marks	4	4	4	4	4	20
Obtained	1	1	1	1	3	19

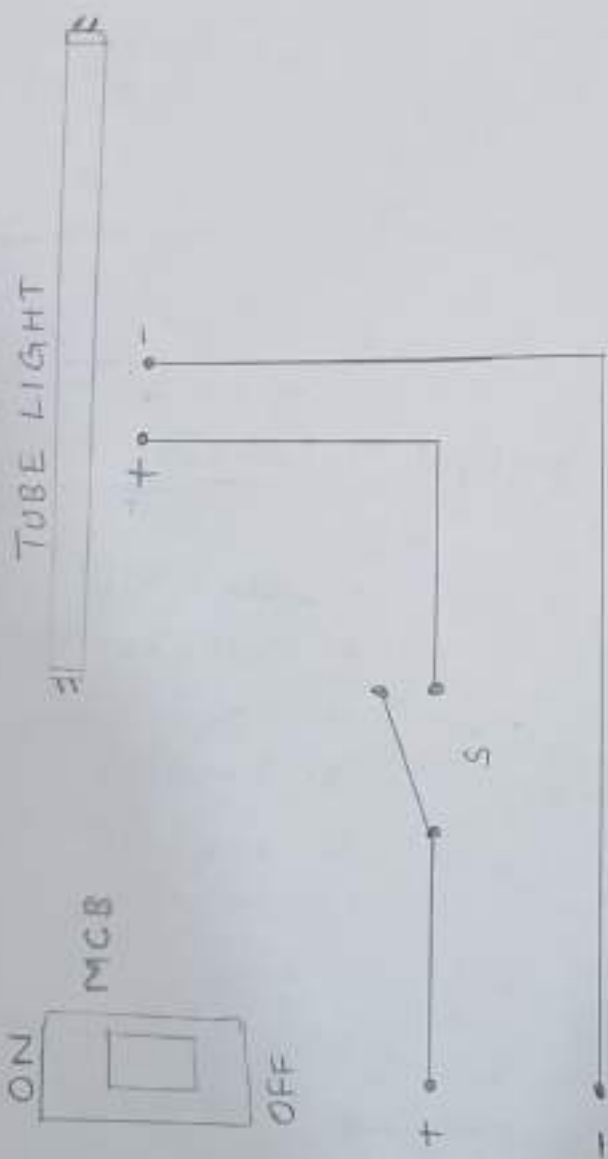
  
Signature of Faculty**START WRITING FROM HERE :**Aim : Tubelight connectionMaterials required :

- |                                  |                    |
|----------------------------------|--------------------|
| 1. Panel board                   | 5. Tube light      |
| 2. Mini circuit breaker          | 6. Bulb holders    |
| 3. Wire connector                | 7. Screws          |
| 4. Wires colour code             | 8. Switches        |
| Red, Yellow, Blue, Black, Green, | 9. Insulation tape |
| 1mm square                       |                    |

Tools required :

- |                  |                         |
|------------------|-------------------------|
| 1. Tester        | 5. Wire gauge           |
| 2. Cutting plier | 6. Diagonal wire cutter |
| 3. Screw driver  | 7. Pockey               |
| 4. Nose plier    | 8. Ball pen hammer      |

Diagram :



240 VOLTS  
~~S = Switch~~

### Sequence of operations:

1. MCB off
2. Measuring the wires
3. Wire sleeving
4. Wire connecting
5. Finishing

Procedure: ① Take two 1mm sq wires of Red and black. With help of diagonal wire cutter, cut the surface of the wire at corners.

- ② Connect red wire of panel board to tubelight holder followed by switch.
- ③ Connect black wire of panel board to tubelight holder.
- ④ If there are any breakages in wire connections, fix it through Insulation tapes.
- ⑤ Test the current with the help of tester.
- ⑥ Next to on the power supply, switch on the MCB.

Safety precautions:

- ① Wear apron, wear shoes.
- ② Make sure to wear gloves.
- ③ Make sure there is a sufficient enough power supply.
- ④ Do not put fingers at the connections/ functions after switching ON the MCB.

Result: we observe that, after switching ON the MCB, we see that current flows in wire connections. As a result, the Tubelight glows.