

Electrical and Electronics Engineering Department

Electrical Engineering Workshop Lab

Paper Code(s): EEC-259

L P C

Paper: Electrical Engineering Workshop Lab

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| Course Outcome(CO) | |
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| At the end of the course, the student will be able to: | |
| CO. EEC259.1 | The students are able to understand the symbols, specification and application of components. |
| CO. EEC259.2 | The students are able to understand the connections/ wiring diagrams used in electrical installations. |
| CO. EEC259.3 | The students are able to understand the function of illumination devices. |
| CO. EEC259.4 | The students are able to understand to fabricate the transformer and assembly of domestic appliances. |

List of Experiment

1. What are the Safety rules and precautions used in Electric Engineering workshop?
2. Study of different symbols that are used to denote electrical components and instruments.
3. Introduction of various tools and electrical circuit components used in electrical workshop.
4. Design of DC power using half wave rectifier and full wave rectifier.
5. What is the use of filter?
6. What is the use regulator?
7. Introduction to different types of electrical wiring and wiring diagrams.
8. Construction of Extension board.
9. What is earthing and uses of earthing?
10. Starting of 3-phase induction motor using a) D.O.L starter (b) Star/Delta Starter.

| List of Experiments | | |
|---------------------|-----|--|
| Exp No | CO | Experiment |
| Exp 1 | CO1 | What are the Safety rules and precautions used in Electric Engineering workshop? |
| Exp 2 | CO2 | Study of different symbols that are used to denote electrical components and instruments. |
| Exp 3 | CO2 | Introduction of various tools and electrical circuit components used in electrical workshop. |
| Exp 4 | CO1 | Design of DC power using half wave rectifier and full wave rectifier. |
| Exp 5 | CO1 | What is the use of filter? |
| Exp 6 | CO1 | What is the use regulator? |

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| Exp 7 | CO2 | Introduction to different types of electrical wiring and wiring diagrams. |
| Exp 8 | CO3 | Construction of Extension board. |
| Exp 9 | CO4 | What is earthing and uses of earthing? |
| Exp 10 | CO4 | Study of Starting of 3-phase induction motor using a) D.O.L starter (b) Star/Delta Strater. |
| Extra 1 | CO3 | Trouble shooting of various home appliances. |
| Extra 2 | CO4 | |