**Govt. Polytechnic Chhapar**

**Electrical Engineering Department**

**Lesson Plan**

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| **Name of Faculty** | **Mrs. Mukesh** |
| **Discipline** | **Electrical Engineering** |
| **Semester** | **4th** |
| **Subject** | **Electrical Engineering Design & Drawing-II** |
| **Lesson Plan Duration** | **From March 2022 to June 2022** |
| **Work load [Theory + Practical] Per Week** | **[00+06]** |

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| **Week** | **Day** | **Topic** |
| 1. | 1. | Introduction to subject |
| 2. | DOL starting of 3-phase induction motor |
| 2. | 3. | 3-phase induction motor getting supply from selected feeder |
| 4. | Forwarding/reversing of a 3-phase induction motor |
| 3. | 5. | Two speed control of 3-phase induction motor |
| 6. | Limit switch control of a 3-phase induction motor |
| 4. | 7. | Sequential operating of two motors using time delay relay |
| 8. | Manually generated star delta starter for 3-phase induction motor |
| 5. | 9. | Revision/Test |
| 10. | Revision/Test |
| 6. | 11. | Automatic star delta starter for 3-phase Induction Motor |
| 12. | Concept and purpose of earthing |
| 7. | 13. | Different types of earthing, drawings of plate and pipe earthing |
| 14. | Procedure of earthing, test of materials required and costing |
| 8. | 15. | Method of reducing earth resistance |
| 16. | Relevant IS specifications of earth electrode for earthing a transformer, a high  building |
| 9. | 17. | Earthing layout of distribution transformer |
| 18. | Substation earthing layout and earthing materials |
| 10. | 19. | Revision/Test |
| 20. | Revision/Test |
| 11. | 21. | Key diagram of 11kV, 33kV, 66kV, 132 kV sub-stations |
| 22. | Schematic Diagram of lighting system of conference room/Theatre/sports  stadium |
| 12. | 23. | Schematic Diagram of lighting system of conference room/Theatre/sports  stadium |
| 24. | Schematic Diagram of lighting system of conference room/Theatre/sports  stadium |
| 13. | 25. | Schematic Diagram of lighting system of conference room/Theatre/sports  stadium |
| 26. | Schematic Diagram of lighting system of conference room/Theatre/sports  stadium |
| 14. | 27. | Schematic Diagram of lighting system of conference room/Theatre/sports  stadium |
| 28. | Revision/Test |
| 15. | 29. | Revision/Test |
| 30. | Revision/Test |