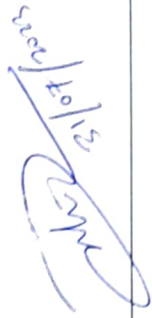


## LESSON PLAN FOR ELECTRICAL MACHINE LAB II [Pr. 1]

|  |  |   |                            |
|--|--|---|----------------------------|
| <b>Discipline:</b><br>Electrical Engineering | <b>Semester:</b><br>5th                        | Name of the Teaching Faculty: <b>CHANDRAMANI MAHAPATRA, Lecturer</b><br><br>Date: 30/11/23 |                            |
| <b>Subject:</b><br>ELECTRICAL MACHINE LAB II | <b>No. of days/ per week class allotted:</b> 6 | <b>Semester From Date :</b> 01.08.2023  | <b>to Date:</b> 30.11.2023 |
| <b>Week</b>                                  | <b>3 Class/ Day</b>                            | <b>Practical Topics</b>   |                            |
| 1st  | 1st  | <i>Introduction</i>   |                            |
|  | 2nd  | Study and Practice of connection & Reverse the direction of rotation of Single Phase Induction motor.   |                            |
| 2nd  | 1st  | Study and Practice of connection & Reverse the direction of rotation of Single Phase Induction motor. [cont.]   |                            |
|  | 2nd  | Study and Practice of connection & Reverse the direction of rotation of Three Phase Induction motor.  |                            |
| 3rd  | 1st  | Study and Practice of connection & Reverse the direction of rotation of Three Phase Induction motor.[CONT.]   |                            |
|  | 2nd  | <i>Doubt Clearing Class</i>   |                            |
| 4th  | 1st  | Study of Direct on Line and star delta starter connection and running a 3-phase Induction motor and measurement of starting current.  |                            |
|  | 2nd  | Study of Direct on Line and star delta starter connection and running a 3-phase Induction motor and measurement of starting current.[Cont.]                                 |                            |
| 5th  | 1st  | Study of Auto transformer and rotor resistance starter connection and running a 3-phase induction motor and measurement of starting current.                                |                            |
|  | 2nd  | Study of Auto transformer and rotor resistance starter connection and running a 3-phase induction motor and measurement of starting current. [cont.]                        |                            |
| 6th  | 1st  | Study of Auto transformer and rotor resistance starter connection and running a 3-phase induction motor and measurement of starting current. [cont.]                        |                            |
|  | 2nd  | <i>Doubt Clearing Class</i>   |                            |
| 7th  | 1st  | OC and SC test of alternator and determination of regulation by synchronous impedance method.   |                            |

|      |     |   |
|------|-----|---|
|      |     | OC and SC test of alternator and determination of regulation by synchronous impedance method. [cont.]                                 |
| 8th  | 2nd | <i>Doubt Clearing Class</i>   |
|      | 1st | Determination of regulation of alternator by direct loading.  |
| 9th  | 2nd | Determination of regulation of alternator by direct loading. [cont.]  |
|      | 1st | Parallel operation of two alternators and study load sharing.   |
| 10th | 2nd | Parallel operation of two alternators and study load sharing. [cont.]   |
|      | 1st | <i>Doubt Clearing Class</i>   |
| 11th | 2nd | Connection of 3-phase energy meter to a 3-phase load.   |
|      | 1st | Connection of 3-phase energy meter to a 3-phase load. [cont.]   |
| 12th | 2nd | Study of induction type over current / reverse power relay.   |
|      | 1st | Study of induction type over current / reverse power relay. [cont.]   |
| 13th | 2nd | <i>Doubt Clearing Class</i>   |
|      | 1st | Measurement of power of a 3-phase Load using two wattmeter method and verification of the result using one 3-phase wattmeter.         |
| 14th | 2nd | Measurement of power of a 3-phase Load using two wattmeter method and verification of the result using one 3-phase wattmeter. [cont.] |
|      | 1st | Study of an O.C.B.  |
| 15th | 2nd | Study of an O.C.B. [cont.]  |
|      | 1st | <i>Doubt Clearing Class</i>   |
|      | 2nd |   |

*[Signature]*  
 Head of Department

*[Signature]*  
 Academic Co-ordinator

*[Signature]*  
 Principal 21/7/23