

## LESSON PLAN FOR ELECTRICAL DRAWING [Pr. 4]

Discipline: Electrical Engineering	Semester: 4th	Name of the Teaching Faculty: SUBHRA PRATIK SAHOO
Subject: ELECTRICAL DRAWING	No. of days/ per week class allotted: 6	Semester From Date : 14/02/2023 to Date: 23/05/2023 No. of Weeks: 15
Week	3 Class / Day	Theory/ Practical Topics
		<b>1. WIRING DIAGRAM AND CONTROL CIRCUIT</b>
1st	1st	1.1 3 point D. C. motor starter.
	2nd	1.2 4 point D.C. motor starter.
2nd	1st	1.3 DOL starter
	2nd	1.4 Star delta starter.
3rd	1st	1.5 Auto Transformer Starter.
	2nd	1.6 Rotor resistance starter.
		<b>2.DRAW D.C. M/C PARTS (Dimensional Drawing)</b>
4th	1st	2.1. Pole with pole shoes. 2.2. Commutator 2.3. Armature
	2nd	2.4. DC. armature winding (a) Simple lap winding
5th	1st	(b) Simple wave winding.
		<b>3. DRAW 1-PHASE &amp; 3-PHASE TRANSFORMER (Assembly Drawing)</b>
	2nd	3.1 Stepped core type.
6th	1st	3.1 Stepped core type. (cont.)
	2nd	3.2 Plane shell type.
7th	1st	3.2 Plane shell type. (cont.)
		<b>5. DRAW SKETCHES OF THE FOLLOWING AS PER B.I.S AND REC SPECIFICATIONS</b>
	2nd	5.1 Earthing installation
8th	1st	5.1 Earthing installation(cont.)
	2nd	5.2 Double pole structure for LT distribution lines.
9th	1st	5.2 Double pole structure for LT distribution lines. (cont.)
	2nd	5.2 Double pole structure of HT distribution lines.
9th	1st	5.2 Double pole structure of HT distribution lines.(cont.)
		<b>6. DRAW SINGLE LINE DIAGRAM OF SUBSTATION</b>
	2nd	6.1 Single line diagram of 33/11kV distribution substation.
10th	1st	6.2 Single line diagram of a 11/0.4 kV distribution substation.
	2nd	6.2 Single line diagram of a 11/0.4 kV distribution substation.(cont.)
		<b>7. COMPUTER AIDED ELECTRICAL DRAWING USING SOFT WARE</b>
11th	1st	Introduction to CAD software
	2nd	7.1 Draw Electrical symbols
12th	1st	7.1 Draw Electrical symbols
	2nd	7.1 Draw Electrical symbols (take Print out)(cont.)
13th	1st	7.2 Draw D.C. m/c parts
	2nd	7.2 Draw D.C. m/c parts (take print out)(cont.)
14th	1st	7.3 Draw A. C. m/c parts
	2nd	7.3 Draw A. C. m/c parts (take print out)(cont.)

15th	1st	7.4 Draw electrical layout of diagram of Electrical Installation of a building.
	2nd	7.4 Draw electrical layout of diagram of Electrical Installation of a building. (cont.)

HOD Electrical Engg.

Academic Co-ordinator

Principal

Govt. polytechnic Nabarangpur