

### ACADEMIC LESSON PLAN SUMMER 2024

Discipline Electrical	Semester: 4 <sup>th</sup> Sec-B	Name of the Teaching Faculty: - LUCKY RANI BEHURIA
Subject: - ED PR-4	No of Days/per Week Class Allotted: 6p/week	Semester From: 16 <sup>th</sup> January 2024 to 26 <sup>th</sup> April 2024
Week	Class Day	Practical Topics
1 <sup>st</sup>	1st	<b>1. WIRING DIAGRAM AND CONTROL CIRCUIT</b> 1.1 3 point D. C. motor starter.
	2nd	1.2 4 point D.C. motor starter.
2 <sup>nd</sup>	1st	1.3 DOL starter 1.4 Star delta starter.
	2nd	1.5 Auto Transformer Starter.
3 <sup>rd</sup>	1st	1.5 Auto Transformer Starter.
	2nd	1.6 Rotor resistance starter.
4 <sup>th</sup>	1st	2. DRAW D.C. M/C PARTS (Dimensional Drawing) 2.1. Pole with pole shoes.
	2nd	2.2. Commutator
5 <sup>th</sup>	1st	2.3. Armature
	2nd	2.4. DC. armature winding (a) Simple lap winding (b) Simple wave winding.
6 <sup>th</sup>	1st	2.4. DC. armature winding (a) Simple lap winding (b) Simple wave winding.
	2nd	3. DRAW 1-PHASE & 3-PHASE TRANSFORMER (Assembly Drawing) 3.1 Stepped core type.
7 <sup>th</sup>	1st	3.2 Plane shell type.
	2nd	5. DRAW SKETCHES OF THE FOLLOWING AS PER B.I.S AND REC SPECIFICATIONS 5.1 Earthing installation.
8 <sup>th</sup>	1st	5.2 Double pole structure for LT and HT distribution lines.
	2nd	5.2 Double pole structure for LT and HT distribution lines.
9 <sup>th</sup>	1st	6. DRAW SINGLE LINE DIAGRAM OF SUBSTATION 6.1 Single line diagram of 33/11kV distribution substation.
	2nd	6. DRAW SINGLE LINE DIAGRAM OF SUBSTATION 6.1 Single line diagram of 33/11kV distribution substation.
10 <sup>th</sup>	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.

11 <sup>th</sup>	1st	8. COMPUTER AIDED ELECTRICAL DRAWING USING SOFT WARE 8.1 Draw Electrical symbols (take Print out)
	2nd	8.2 Draw D.C. m/c parts (take print out)
12 <sup>th</sup>	1st	8.2 Draw D.C. m/c parts (take print out)
13 <sup>th</sup>	2nd	8.3 Draw A. C. m/c parts (take print out)
	1st	8.3 Draw A. C. m/c parts (take print out)
	2nd	8.3 Draw A. C. m/c parts (take print out)
14 <sup>th</sup>	1st	8.3 Draw A. C. m/c parts (take print out)
	2nd	8.4 Draw electrical layout of diagram of Electrical Installation of a building.
15 <sup>th</sup>	1st	8.4 Draw electrical layout of diagram of Electrical Installation of a building.
	2nd	8.4 Draw electrical layout of diagram of Electrical Installation of a building.

*Lucky Devi Behuria*

Signature of the Faculty