

**UTKAL GOURAV MADHUSUDAN INSTITUTE OF TECHNOLOGY, RAYAGADA**  
**Academic Lesson Plan for summer semester- 2024**

Name of the teaching faculty :Umesh Chandra Sethi  
 Semester:4<sup>th</sup>  
 No. of periods per week: **6**  
 End Semester Examination-100  
 Total Mark-125

Discipline / Dept.: **EE**  
 Subject(PRATICAL): **E.D.**  
 Total Period :90  
 Sessional : 25

Week	Period	UNIT/CHAPTER	TOPIC TO BE COVERED	
1st	1 <sup>st</sup>	<b>WIRING DIAGRAM AND CONTROL CIRCUIT</b>	3 point D. C. motor starter	
	2 <sup>nd</sup>			
	3 <sup>rd</sup>			
	1 <sup>st</sup>		4 point D.C. motor starter.	
	2 <sup>nd</sup>			
	3 <sup>rd</sup>			
2nd	1 <sup>st</sup>		<b>WIRING DIAGRAM AND CONTROL CIRCUIT</b>	DOL starter
	2 <sup>nd</sup>			
	3 <sup>rd</sup>			
	1 <sup>st</sup>			Star delta starter
	2 <sup>nd</sup>			
	3 <sup>rd</sup>			
3rd	1 <sup>st</sup>	<b>WIRING DIAGRAM AND CONTROL CIRCUIT</b>		Auto Transformer Starter.
	2 <sup>nd</sup>			
	3 <sup>rd</sup>			
	1 <sup>st</sup>			Rotor resistance starter.
	2 <sup>nd</sup>			
	3 <sup>rd</sup>			
4th	1 <sup>st</sup>		<b>DRAW D.C. M/C PARTS (Dimensional Drawing)</b>	Pole with pole shoes
	2 <sup>nd</sup>			
	3 <sup>rd</sup>			
	1 <sup>st</sup>			Commutator
	2 <sup>nd</sup>			

	3 <sup>rd</sup>			
5th	1 <sup>st</sup>	DRAW 1-PHASE & 3-PHASE TRANSFORMER (Assembly Drawing)	Armature	
	2 <sup>nd</sup>			
	3 <sup>rd</sup>			
	1 <sup>st</sup>		DC. armature winding (a) Simple lap winding	
	2 <sup>nd</sup>			
6th	3 <sup>rd</sup>			
	1 <sup>st</sup>		DC. Armature winding (b) Simple wave winding.	
	2 <sup>nd</sup>			
	3 <sup>rd</sup>			
	1 <sup>st</sup>		DC. Armature winding (b) Simple wave winding.	
7th	2 <sup>nd</sup>		DRAW SKETCHES OF THE FOLLOWING AS PER B.I.S AND REC SPECIFICATIONS	Stepped core type
	3 <sup>rd</sup>			
	1 <sup>st</sup>	Stepped core type		
	2 <sup>nd</sup>			
	3 <sup>rd</sup>			
8th	1 <sup>st</sup>			Plane shell type.
	2 <sup>nd</sup>			
	3 <sup>rd</sup>			Plane shell type.
9th				Earthing installation
				Earthing installation
10th			Double pole structure for LT distribution lines	
			Double pole structure for LT distribution lines	
11			Double pole structure for HT distribution lines.	
			Double pole structure for HT distribution lines.	

12		DRAW SINGLE LINE DIAGRAM OF SUBSTATION	Single line diagram of 33/11 kv distribution substation	
			Single line diagram of 33/11 kv distribution substation	
			Single line diagram of 11/0.4 kv distribution substation	
13			COMPUTER AIDED ELECTRICAL DRAWING USING SOFT WARE	Draw Electrical Symbols
				Draw D/C machine parts
				Draw A/C machine parts
14		Draw electrical layout of diagram of electrical installation of a building		
		Draw electrical layout of diagram of electrical installation of a building		
15				

The lesson plan prepared by the concerned faculty.

**UMESH CHANDRA SETHI**  
**Guest Faculty**  
**Elect. Engg. Deptt.**