

Name of the Faculty**Discipline** ELECTRICAL ENGG.**Semester** 4TH**Subject** ELECTRICAL ENGINEERING DESIGN & DRAWING-II**Lesson Plan Duration** 15 weeks**Work Load (Lecture/Practical) per week (in periods): Lectures- Nil, Practicals- 06**

Week		Drawings
	Practical Periods	Topic (including test)
1st	1st	Discussion of Learning Outcomes, Introduction of Electrical Engg. Design. & Drawing.
	2nd	Unit 1 : (Contractor Control circuits) - To make the drawing sheet (Schematic diagram and power wiring diagram of DOL starting of 3-phase induction motor.
	3rd	
	4th	Unit 1 : (Contractor Control circuits) - To make the drawing sheet (Schematic diagram and power wiring diagram of 3-phase induction motor getting supply selected feeder.
	5th	
	6th	
2nd	7th	Unit 1 : (Contractor Control circuits) - To make the drawing sheet (Schematic diagram and power wiring diagram of Forwarding/ reversing of a 3-phase induction motor.
	8th	
	9th	
	10th	Revision of previous making drawing sheets for left out students if any and checking of making drawing sheets
	11th	
	12th	
3rd	13th	Unit 1 : (Contractor Control circuits) - To make the drawing sheet (Shemetic diagram and power wiring diagram of Two speed control of 3-phase induction motor.
	14th	
	15th	
	16th	Unit 1 : (Contractor Control circuits) - To make the drawing sheet (Shemetic diagram and power wiring diagram of Limit switch control of a 3-phase induction motor.
	17th	
	18th	
4th	19th	Unit 1 : (Contractor Control circuits) - To make the drawing sheet (Shemetic diagram and power wiring diagram of Sequential operating of two motors using time delay relay.
	20th	
	21st	
	22nd	Unit 1 : (Contractor Control circuits) - To make the drawing sheet (Shemetic diagram and power wiring diagram of Manually generated star delta starter for 3-phase induction motor.
	23rd	
	24th	
5th	25th	Unit 1 : (Contractor Control circuits) - To make the drawing sheet (Shemetic diagram and power wiring diagram of Automatic star delta starter for 3-phase induction motor.
	26th	
	27th	
	28th	Class test for preparation of 1st sessional exam and checking of previous drawing sheets.
	29th	
	30th	
6th	31st	Unit 2 : (Earthing) - Concept and purpose of earthing.
	32nd	
	33rd	
	34th	Unit 2 : (Earthing) - Different types of earthing : To make the drawing sheet of plate earthing.

	35th	
	36th	
7th	37th	
	38th	
	39th	Unit 2 : (Earthing) - To make the drawing sheet of Pipe earthing.
	40th	
	41st	Unit 2 : (Earthing) - Revision of previous making drawing sheets and check the making drawing sheets.
	42nd	
8th	43rd	
	44th	Unit 2 : (Earthing) - Procedure of earthing, test of materials required and costing and method of reducing earth resistance.
	45th	
	46th	
	47th	Unit 2 : (Earthing) - Relevant IS specifications of earth electrode for earthing a transformer, a high building.
	48th	
9th	49th	
	50th	
	51st	Unit 2 : (Earthing) - Earthing layout of distribution transformer.
	52nd	
	53rd	Unit 2 : (Earthing) - Substation earthing layout and earthing materials and key diagram of 11KV sub station.
	54th	
10th	55th	
	56th	
	57th	Unit 2 : (Earthing) - Key diagram of 33KV, 66KV sub stations.
	58th	
	59th	
	60th	Unit 2 : (Earthing) - Key diagram of 132KV sub station and preparation of 2 nd sessional exam.
11th	61st	
	62nd	
	63rd	Unit 3 : schematic diagram of lighting system of Conference Room
	64th	
	65th	
	66th	Unit 3 : schematic diagram of lighting system of theatre/sports stadium
12th	67th	
	68th	
	69th	Unit 3 : checking of sheets
	70th	
	71st	
	72nd	Unit 3 : revision and checking of sheets
13th	73rd	
	74th	
	75th	Unit 3 : timers circuits using CAD
	76th	
	77th	
	78th	Unit 3 : ABOVE.

14th	79th	Unit 3 : Repeat	
	80th		
	81st		
	82nd		Unit 3 : Discussion of Previous year hsbte question paper
	83rd		
	84th		
15th	85th	Preparation of Illrd sessional exam and checking of previous drawing sheets (If any)	
	86th		
	87th		
	88th	Revision of all above making drawing sheets and preparation of final Exam.	
	89th		
	90th		

