

GOVERNMENT CO.ED POLYTECHNIC RAIPUR (C.G)

DEPARTMENT OF ELECTRICAL ENGINEERING

LESSON PLAN

Session: April-May

Session start as per university calendar:

Course Name: Electrical Estimating and Costing

Name of Subject Teacher:

Lecturer plan L = 3

Course code: 2000455(024)

Class room Instruction Start Date:

Discipline: EE	Semester: 4th								
S.No.	Chapter No.	Topics	Sub Topic to be covered under this unit	Total hours	No. of periods planned	Actual No of periods taken	Date of Class Conduction	Use of AV resources if any	Remarks if any
1	1	Electrical Wiring	Wiring system, types of wires, specifications of different types of wiring materials	8	2	2	27/02/25, 28/02/25	NA	
			Selection of material for wiring work, wiring tools, wiring circuits.		2	2	03/03/25, 04/03/25		
			Point wiring system, short medium and long, service line single and three phase		2	2	05/03/25, 06/03/25		
			domestic and industrial panel wiring.		1	1	07/03/25, 08/03/25		
			IE ACT 2003, I.E. rules for wiring		1	1	10/03/25.		12/03/25 - Assignment-2
2	2	Estimating and Costing Practices	Estimation and estimation tools	10	2	2	03/02/25, 4/02/25	NA	20/02/25 - Doubt class
			Electrical schedule of rates, catalogues, survey and source selection. Measurement book.		2	2	5/02/25, 6/02/25		24/02/25 - Assignment-1
			Quantity and cost of material required.		2	2	7/02/25, 10/02/25		Discussion
			Purchase system including GEM, Purchase enquiry and selection of purchase mode, purchase order.		2	2	12/02/25, 13/02/25		
			Contract system, Tendering procedure and preparation of simple tender, earnest money, security deposit.		2	2	17/02/25, 17/02/25		

3	3	Estimating and Costing of residential and industrial wiring	Residential wiring – Layout, load circulation, wire, switchgear, cable, and other accessories and fixture/fitting selection	3	3	17/03/25, 24/03/25, 26/03/25	NA	28/03/25 Quiz class	
			Earthing system, overall estimating and costing	3	3	27/03/25, 02/04/25, 02/04/25		Assignment-3 11/04/25	
			commercial and industrial wiring- Layout, load circulation, wire, switchgear, cable, and other accessories and fixture/fitting selection	4	4	03/04/25, 04/04/25, 07/04/25, 08/04/25			
			Overhead distribution system, Material and accessories required for overhead distribution system.	2	2	23/04/25, 24/04/25			
4	4	Estimating and Costing of overhead and underground distribution system	Distribution lines, line supports, factors governing heights of pole, conductor material size of conductor for overhead line	2	2	28/04/25, 1/05/25	NA		
			Overhead line insulators, insulators material, lightning arrester, erection of supports.	2	2	2/05/25, 5/05/25		Quiz-1 8/05/25	
			IE rules pertaining to LV distribution lines, Estimate for 440 V, 3-phase 4 wire overhead.	2	2	7/05/25, 8/05/25			
			Types of service connections, method of installation of service connection, underground distribution system	1	1	01/05/25			
5	5	Estimating and Costing of repair and maintenance of electrical equipment and appliances	DOL starter, small motor, mono block pump, automatic electric iron	1	1	15/05/25	NA	Quiz-	
			Operating manuals, service manuals and drawing work of the product.	1	-	15/05/25		Assignment-5	
			Storage of consumables/spare parts of the equipment	2					
			Estimation of repairing cost and overall cost, tools used for repair and maintenance work	2					
			Preparation of cost schedule for repair and maintenance of -electric fan, automatic electric iron, single phase transformer			2			
				45 Hours					