LESSON PLAN FOR SUMMER SESSION (2024-25)

PROGRAMME : CIVIL ENGINEERING				NAME OF THE FACULTY: MR. ARABINDA SAHU		
COURSE NAME : CONSTRUCTION MANAGEMENT COURSE CODE : TH.2 SEMESTER : 6TH				SESSION : 2024-25 (S)		
				DATE: 04/02/25 To 17/05/25		
	WEEK: 4					
	ERIODS:60	VINITEG		TODICS		
WEEK	PERIODS	UNITS	TOPICS 1 Interdesting To Count motion Management			
	1	1	1 Introduction To Construction Management 1.1 Aims and objectives of construction management.			
Feb. 1st	2	1	1.2 Functions of construction management,			
Week	3	1	1.3 The construction team components owner, engineer ,architect, contractor-their functions and interrelationship and jurisdiction.			
	4	1	1.4 Resources for construction management-men, machines materials ,money			
	5	2	2 Constructional Planning			
Feb. 2nd	6	2	2.1 Importance of Construction Planning			
Week	7	2	2.2 Developing work breakdown structure for construction work			
15 3 A 24	8	2	2.3 Construction Planning stages-Pre-tender stage, Post-tender stage.			
Total Control	9	2	2.4 Construction scheduling by Bar charts	-preparation of Bar Charts for simple construction works.		
	10	2	2.4 Construction scheduling by Bar charts-preparation of Bar Charts for simple construction works.			
Week	11	2	2.5 Preparation of schedules for labour materials ,machinery, finance for small works			
	12	2	2.5 Preparation of schedules for labour materials ,machinery, finance for small works			
A CONTRACT	13	2	2.6 Limitation of Bar charts			
	14	2	2.7 Construction scheduling by network techniques-defination of terms ,PERT techniques			
Week	15	2	2.7 Construction scheduling by network techniques-defination of terms CPM techniques			
	16	2	2.7 Construction scheduling by network techniques-defination of terms CPM techniques			
3 - 7	17	dial of	Monthly Test-1			
Mar. 1st	18	2	Advantages and disadvantages of two tech	nniques, network analysis, estimation of time and critical path		
Week	19	2	Advantages and disadvantages of two techniques, network analysis, estimation of time and critical path			
	20	2	Application of PERT and CPM techniques in sample construction works			
Contract of the last	21	2	Application of PERT and CPM techniques	s in sample construction works		
	22	2	Application of PERT and CPM techniques			
	23	3	3 Materials and Stores Management 3.1 Classification of Stores-storage of stock. 3.2 Issue of materials-indent, invoice, bin card			
	24	4	4 Construction Site Management 4.1 Job Lay out-Objectives, Review plans, specifications, Lay out of equipments. 4.2 Location of equipment, organizing labour at site.			
	25	4	4.3 Job lay out for different construction sites. 4.4 Principle of storing material at site.			
Mar. 3rd Week	26	5	5 Construction Organization: 5.1 Introduction – Characteristics, Structure, importance. 5.2 Organization types-line and staff, functions and their characteristics			
	27	5	5.3 Principles of organization- meaning and significance of terms- control, authority, responsibility, job & task 5.4 Leadership-necessity, styles of leadership, role of leader			
	20		5.5 Human relations-relations with subord	linates, peers, Supervisors, characteristics of group behavior, Mob		
12/20	28	5	psychology, handling of grievances, absen	nteeism, labour welfare onflicts, types-intrapersonal, interpersonal, intergroup, resolving conflicts		
Mar. 2nd Week		3	Internal Assessment Exam	minets, types-intrapersonal, interpersonal, intergroup, resolving conflicts		
	30					
Mar. 4th Week	31	6	6 Construction Labour and Labour Ma 6.1 Preparing Labour schedule 6.2 Essential steps for optimum labour ou			
	32	6	6.3 Labour characteristics 6.4 Wages & their payment			
	33	6	6.5 Labour incentives	different annual has to resting in		
Apr. 1st Week	34	7	6.6 Motivation- Classification of motives. 7 Equipment Management 7.1 Preparing the equipment schedule 7.2 Identification of different alternative e			
	35	7		sts in making decisions for hiring & purchase of equipment		
	36	7	7.4 Inspection and testing of equipment	and the state of t		
Apr. 2nd	37	8	7.5 Equipment maintenance 8 Quality Control 8.1 Concept of quality in construction			
	38	8		after construction destructive & non destructive methods		
			8.2 Quality Standards- during construction, after construction, destructive & non destructive methods			
Week	39	8	[8.2 Quality Standards- during construction	n, after construction, destructive & non destructive methods		

WEEK	PERIODS	UNITS		
	40	9	9 Monitoring Progress 9.1 Programme and progress of work	
Apr. 3rd Week	41	9	9.2 Work study	
	42	9	9.2 Work study	
	43	9	9.3 Analysis and control of physical and financial progress corrective measures	
	44	9	9.3 Analysis and control of physical and financial progress corrective measures	
Apr. 4th Week	45	10	10 Safety Management In Construction 10.1 Importance of safety	
	46	10	10.1 Importance of safety	
	47	10	10.2 causes and effects of accidents in construction works 10.3 Safety measures in worksites for excavation, scaffolding, formwork, fabrication and erection, demolition	
	48	10	10.2 causes and effects of accidents in construction works 10.3 Safety measures in worksites for excavation, scaffolding, formwork, fabrication and erection, demolition	
May. 1st Week	49	10	10.4 Development of safety consciousness	
	50	10	10.5 Safety legislation- Workman's compensation act, contract labour act	
	51	11	11 Role of Vulnerability Atlas of India in construction projects 11.1 Introduction to Vulnerability Atlas of India, Concepts of natural hazards and disasters and vulnerability profile of India. Definition of disaster related terms	
	52	11	11.2 Earthquake hazard and vulnerability, Magnitude and intensity scales of earthquake, seismic zones, earthquake hazard maps, types of structures and damage classification, effects in housing and resistant measures.	
May 2nd Week	53	11	11.3 Wind / Cyclone hazard and vulnerability, wind speed and pressures, wind hazard and cyclone occurrence maps storm surveys and cyclone resistant measures.	
	54	11	11.4 Flood hazard and vulnerability, Flood hazard and Flood prone areas of the country, General protection of habitants and flood resistant construction	
	55	11	11.5 Landslides, Tsunamis and Thunderstorm hazards and vulnerability, Landslide & Thunderstorm incidence maps. Measures against Tsunami hazards.	
	56	11	11.6 Housing vulnerability risk tables and usage of vulnerability atlas of India, Inclusion of vulnerability atlas in Tender documents.	
May. 3rd Week	57		Monthly Test-2	
	58	115.47	Doubt Clearing Class & Previous year question Paper discussion.	
	59		Doubt Clearing Class & Previous year question Paper discussion.	
	60	TO ALLEY	Doubt Clearing Class & Previous year question Paper discussion.	

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Civil engineering

Academic Coordinator **GP Nabarangpur**

Principal **GP** Nabarangpur