

DEPARTMENT OF CIVIL ENGINEERING					
Lesson Plan For Summer 2023-24 (From: 16.01.2024 To: 26.04.2024)					
Subject: Construction Management 3rd Semester			Name of The Faculty: Lopamudra Nayak No. of Days/Pr week Class Alloted: 04 hrs		
Month	Week	Date/Class Day	Periods Available	Topic To Be Covered	
J A N U A R Y	1st	17.01.2024	1	Briefing of Syllabus , introduction about the subject, books required, classroom rules	
		18.01.2024	1	Chapter 1 - Introduction to Construction Management: 1.1 Aims and objectives of construction management , 1.2 Functions of construction management	
		19.01.2024	1	1.3 The construction team components- owner,engineer,architect,contractor-their functions and interrelationship and jurisdiction	
		22.01.2024	1	1.4 Resources for construction management-men,machines,materials,money	
		24.01.2024	1	Chapter 2 - Construction Planning: 2.1 Importance of Construction Planning , 2.2 Developing work breakdown structure for construction work , 2.3 Construction Planning stages-Pre-tender stage, Post-tender stage	
	2nd	25.01.2024	1	2.4 Construction scheduling by Bar charts-preparation of Bar Charts for simple construction works , 2.5 Preparation of schedules for labour materials,machinery, finance for small works , 2.6 Limitation of Bar charts	
		29.01.2024	1	2.7 Construction scheduling by network techniques-defination of terms	
	F E B R U A R Y	3rd	30.01.2024	1	PERT and CPM techniques, advantages and disadvantages of two techniques, network analysis, estimation of time and critical path
			01.02.2024	1	application of PERT and CPM techniques in sample construction works
			02.02.2024	1	application of PERT and CPM techniques in sample construction works
4th		05.02.2024	1	Revision and question answer discussion	
		07.02.2024	1	Chapter 3 - Materials and Stores Management: 3.1 Classification of Stores-storage of stock	
		08.02.2024	1	3.2 Issue of materials-indent , invoice, bin card , Revision and Question Answer Discussion	
5th		09.02.2024	1	Chapter 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	
		12.02.2024	1	Chapter 5 - Construction Organisation: 5.1 Introduction – Characteristics, Structure, importance.	
6th		15.02.2024	1	5.2 Organization types-line and staff, functions and their characteristics	
		16.02.2024	1	5.3 Principles of organization- meaning and significance of terms- control, authority, responsibility, job & task, handling of grievances, absenteeism, labour welfare	
	19.02.2024	1	Revision and question answer discussion		
	21.02.2024	1	5.4 Leadership-necessity, styles of leadership, role of leader		
	22.02.2024	1	5.5 Human relations-relations with subordinates, peers, Supervisors, characteristics of group behavior, mob psychology , Revision and Question Answer Discussion		
	23.02.2024	1	Monthly test (February)		
	26.02.2024	1	handling of grievances, absenteeism, labour welfare		
7th	28.02.2024	1	5.6 Conflicts in organization-genesis of conflicts, types-intrapersonal, interpersonal, intergroup, resolving conflicts		
	29.02.2024	1	Chapter 6 - Construction Labour and Labour Management: 6.1 Preparing Labour schedule		
	01.03.2024	1	6.2 Essential steps for optimum labour output , 6.3 Labour characteristics		

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M A R C H	8th	04.03.2024	1	Revision and question answer discussion
		06.03.2024	1	6.4 Wages & their payment , 6.5 Labour incentives
		07.03.2024	1	6.6 Motivation- Classification of motives, different approaches to motivation
	9th	11.03.2024	1	Chapter 7 - Equipment Management: 7.1 Preparing the equipment schedule , 7.2 Identification of different alternative equipment
		13.03.2024	1	7.3 Importance of Owning & operating costs in making decisions for hiring & purchase of equipment , 7.4 Inspection and testing of equipment , 7.5 Equipment maintenance
		14.03.2024	1	Revision and question answer discussion
		15.03.2024	1	Chapter 8 - Quality Control: 8.1 Concept of quality in construction ,
		18.03.2024	1	8.2 Quality Standards- during construction, after construction, destructive & non destructive methods , Revision and Question Answer Discussion
	10th	20.03.2024	1	Chapter 9 - Monitoring Progress: 9.1 Programme and progress of work
		21.03.2024	1	9.2 Work study, 9.3 Analysis and control of physical and financial progress corrective measures
		22.03.2024	1	Revision and question answer discussion
		27.03.2024	1	Chapter 10 - Safety Management in Construction: 10.1 Importance of safety , 10.2 causes and effects of accidents in construction works
	11th	28.03.2024	1	Monthly test (March)
		03.04.2024	1	10.3 Safety measures in worksites for excavation, scaffolding, formwork, fabrication and erection, demolition
	12th	04.04.2024	1	10.4 Development of safety consciousness , 10.5 Safety legislation- Workman's compensation act, contract labour act
		05.04.2024	1	Revision and question answer discussion
A P R I L	13th	08.04.2024	1	Chapter 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. 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.
		10.04.2024	1	11.3 Wind / Cyclone hazard and vulnerability, wind speed and pressures, wind hazard and cyclone occurrence maps, storm surveys and cyclone resistant measures. 11.4 Flood hazard and vulnerability, Flood hazard and Flood prone areas of the country, General protection of habitants and flood resistant construction.
		12.04.2024	1	11.5 Landslides, Tsunamis and Thunderstorm hazards and vulnerability, Landslide & Thunderstorm incidence maps, Measures against Tsunami hazards. 11.6 Housing vulnerability risk tables and usage of vulnerability atlas of India, Inclusion of vulnerability atlas in Tender documents.
		15.04.2024	1	Doubt clearing class
	14th	18.04.2024	1	Previous year question answer discussion
		19.04.2024	1	Revision of entire syllabus
		22.04.2024	1	Mock test
	15th	24.04.2024	1	Mock test
		25.04.2024	1	Mock test
		26.04.2024	1	Mock test
		Total	51	