

NILASAILA INSTITUTE OF SCIENCE & TECHNOLOGY SERGARH-756060, BALASORE (ODISHA) (Approved by AICTE& affiliated to SCTE&VT, Odisha)



LESSON PLAN

SUBJECT: Th-2 (CONSTRUCTION MANAGEMENT)

Name Of The Faculty :- Er. Diptimayee Mohanty

Branch :- Civil Engineering Semester :- 6th

CHAPTER WISE DISTRIBUTION OF PERIODS

CHAPTER WISE DISTRIBUTION OF PERIODS					
SI.No.	Name of the chapter as per the Syllabus	No. of Periods as per the Syllabus	No. of periods actually needed		
1	Introduction To Construction Management	4	4		
2	Constructional Planning	7	7		
3	Materials and Stores Management	4	4		
4	Construction Site Management	5	5		
5	Construction Organisation	6	6		
6	Construction Labour and Labour Management	6	6		
7	Equipment Management	6	6		
8	Quality Control	5	5		
9	Monitoring Progress	6	6		
10	Safety Management In Construction	5	5		
11	Role of Vulnerability Atlas of India in construction projects	6	6		
	TOTAL:	60	60		

Sign of Faculty

Sign of H.O.D.

Discipline: CIVIL ENGINEERING	Semester: 6th	Name of the Teaching Faculty: Er. Diptimayee Mohanty	
		SESSION: 2024-25 EXAMINATION: 2025 (5)	
Week	Class Day	Topics to be Covered	
1 st	1 st	Introduction To Construction Management: 1.1 Aims and objectives of construction management	
	2 nd	1.2 Functions of construction management.	
	3 rd	1.3 The construction team components-owner, engineer, architect, contractor-their functions and interrelationship and jurisdiction	
	4 th	1.4 Resources for construction management-men, machines, materials, money	
	1 st	Constructional Planning: 2.1 Importance of Construction Planning	
nd	2 nd	2.2 Developing work breakdown structure for construction work	
2 nd	3 rd	2.3 Construction Planning stages-Pre-tender stage, Post-tender stage	
	4 th	2.4 Construction scheduling by Bar charts-preparation of Bar Charts for simple construction works	
3 rd	1 st	2.5 Preparation of schedules for labour materials, machinery, finance for small works	
	2 nd	2.6 Limitation of Bar charts	
	3 rd	2.7 Construction scheduling by network techniques-defination of terms ,PERT and CPM techniques, advantages and disadvantages of two techniques, network analysis,	
	4 th	Materials and Stores Management: 3.1 Classification of Stores-storage of stock	
	1 st	3.1 Classification of Stores-storage of stock	
4 th	2 nd	3.2 Issue of materials-indent , invoice, bin card	
	3 rd	3.2 Issue of materials-indent , invoice, bin card	
	4 th	Construction Site Management: 4.1 Job Lay out-Objectives, Review plans, specifications, Lay out of equipments.	
5 th	1 st	4.1 Job Lay out-Objectives, Review plans, specifications, Lay out of equipments.	
	2 nd	4.2 Location of equipment, organizing labour at site.	
	3 rd	4.3 Job lay out for different construction sites.	
	4 th	4.4 Principle of storing material at site.	
6 th	1 st	Construction Organization: 5.1 Introduction – Characteristics, Structure, importance	

N

6 th	2 nd	5.2 Organization types-line and staff, functions and their characteristics
	3 rd	5.3 Principles of organization- meaning and significance of terms- control, authority,
	4 th	responsibility, job & task. 5.4 Leadership-necessity, styles of leadership, role of leader
7 th	1 st	5.5 Human relations-relations with subordinates, peers, Supervisors, characteristics of group behavior, mob psychology, handling of grievances, absenteeism, labour welfare
	2 nd	5.6 Conflicts in organization-genesis of conflicts, types-intrapersonal, interpersonal, intergroup, resolving conflicts.
	3 rd	Construction Labour and Labour Management: 6.1 Preparing Labour schedule
	4 th	6.2 Essential steps for optimum labour output
, th	1 st	6.3 Labour characteristics
	2 nd	6.4 Wages & their payment
8 th	3 rd	6.5 Labour incentives
	4 th	6.6 Motivation- Classification of motives, different approaches to motivation.
9 th	1 st	Equipment Management: 7.1 Preparing the equipment schedule
	2 nd	7.2 Identification of different alternative equipment
	3 rd	7.3 Importance of Owning & operating costs in making decisions for hiring & purchase of equipment
	4 th	7.3 Importance of Owning & operating costs in making decisions for hiring & purchase of equipment
	1 st	7.4 Inspection and testing of equipment
10 th	2 nd	7.5 Equipment maintenance
	3 rd	Quality Control: 8.1 Concept of quality in construction
	4 th	8.1 Concept of quality in construction
	1 st	INTERNAL ASSESSMENT
11 th	2 nd	INTERNAL ASSESSMENT
	3 rd	8.2 Quality Standards- during construction, after construction, destructive & non destructive
	4 th	Monitoring Progress: 9.1 Programme and progress of work
	1 st	9.1 Programme and progress of work
12 th	2 nd	9.2 Work study

12 th	3 rd	9.2 Work study
	4 th	9.3 Analysis and control of physical and financial progress corrective measures
13 th	1 st	9.3 Analysis and control of physical and financial progress corrective measures
	2 nd	Safety Management In Construction: 10.1 Importance of safety
	3 rd	10.2 causes and effects of accidents in construction works
	4 th	10.3 Safety measures in worksites for excavation, scaffolding, formwork, fabricationn and erection, demolition
14 th	1 st	10.4 Development of safety consciousness
	2 nd	10.5 Safety legislation- Workman's compensation act, contract labour act.
	3 rd	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.
	4 th	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.
15th	1 st	11.3 Wind / Cyclone hazard and vulnerability, wind speed and pressures, wind hazard and cyclone occurrence maps, storm surveys and cyclone resistant measures.
	2 nd	11.4 Flood hazard and vulnerability, Flood hazard and Flood prone areas of the country, General protection of habitants and flood resistant construction
	3 rd	11.5 Landslides, Tsunamis and Thunderstorm hazards and vulnerability, Landslide & Thunderstorm incidence maps, Measures against Tsunami hazards.
	4 th	11.6 Housing vulnerability risk tables and usage of vulnerability atlas of India, Inclusion of vulnerability atlas in Tender documents.

Sign of Faculty

Sign of H.O.D.