

BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
DEPARTMENT OF CIVIL ENGINEERING



LESSON PLAN

SUBJECT: CONSTRUCTION MANAGEMENT (TH 2)

FACULTY: MISS SAMITA SAHOO

ACCADEMIC SESSION: 2023-24

SEMESTER: 6TH

SEC: A

Sd/-
HOD (Civil Engg.)

BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
DEPARTMENT OF CIVIL ENGINEERING
LESSON PLAN

Discipline: Civil Engineering	Semester: 6th Sec: A		Name of Teaching Faculty: MISS SAMITA SAHOO
Subject: CONSTRUCTION MANAGEMENT	No. of Days / week class allotted: 04 period per week (MON—1P, TUE-1P, WED-1P, THU-1P)		Semester From Date : 16-01-2024 To Date 26-04-2024 No. of Weeks: 15
Week	Date	No. of periods available	Topics to be covered
1ST	16/01/2024	1	1 Introduction To Construction Management: 1.1 Aims and objectives of construction management. 1.2 Functions of construction management.
	17/01/2024	1	1.3 The construction team components owner,engineer,architect, contractor-their functions and interrelationship and jurisdiction. 1.4 Resources for construction management-men,machines,materials,money.
	18/01/2024	1	2 Constructional Planning 2.1 Importance of Construction Planning 2.2 Developing work breakdown structure for construction work
2ND	22/01/2024		2.3 Construction Planning stages-Pre-tender stage, Post-tender stage 2.4 Construction scheduling by Bar charts-preparation of Bar Charts for simple

BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
DEPARTMENT OF CIVIL ENGINEERING
LESSON PLAN

		1	construction works. 2.5 Preparation of schedules for labour materials
	24/01/2024	1	2.5 machinery, finance for small works. 2.6 Limitation of Bar charts.
	25/01/2024	1	2.7 Construction scheduling by network techniques-definition of terms ,PERT and CPM techniques, advantages and disadvantages of two techniques, network analysis, estimation of time and critical path, application of PERT and CPM techniques in sample construction works.
3RD	29/01/2024	1	2.7 Construction scheduling by network techniques-definition of terms ,PERT and CPM techniques, advantages and disadvantages of two techniques, network analysis, estimation of time and critical path, application of PERT and CPM techniques in sample construction works.
	30/01/2024	1	CPM & PERT questions
	31/01/2024	1	3 Materials and Stores Management 3.1 Classification of Stores-storage of stock. 3.2 Issue of materials-indent , invoice, bin card.
	01/02/2024	1	4 Construction Site Management
4TH	05/02/2024	1	4.1 Job Lay out-Objectives, Review plans, specifications, Lay out of equipment. 4.2 Location of equipment, organizing labour at site.

BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
DEPARTMENT OF CIVIL ENGINEERING
LESSON PLAN

	06/02/2024	1	4.3 Job lay out for different construction sites.
	07/02/2024	1	4.4 Principle of storing material at site.
	08/02/2024	1	5 Construction Organization: 5.1 Introduction – Characteristics, Structure, importance. 5.2 Organization types-line and staff, functions and their characteristics
5TH	12/02/2024	1	5.3 Principles of organization- meaning and significance of terms- control, authority, responsibility, job & task.
	13/02/2024	1	Monthly Class Test 1
	15/02/2024	1	5.4 Leadership-necessity, styles of leadership, role of leader.
6TH	19/02/2024	1	5.5 Human relations-relations with subordinates, peers, Supervisors, characteristics of group behavior. 5.5 mob psychology, handling of grievances, absenteeism, labour welfare.
	20/02/2024	1	5.6 Conflicts in organization-genesis of conflicts, types-intrapersonal, interpersonal, intergroup, resolving conflicts.
	21/02/2024	1	6 Construction Labour and Labour Management: 6.1 Preparing Labour schedule 6.2 Essential steps for optimum labour output
	22/02/2024		6.3 Labour characteristics 6.4 Wages & their payment

BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
DEPARTMENT OF CIVIL ENGINEERING
LESSON PLAN

7TH	26/02/2024	1	6.5 Labour incentives 6.6 Motivation- Classification of motives, different approaches to motivation.
	27/02/2024	1	7 Equipment Management 7.1 Preparing the equipment schedule
	28/02/2024	1	7.2 Identification of different alternative equipment.
	29/02/2024	1	7.3 Importance of Owning & operating costs in making, decisions for hiring & purchase of equipment.
8TH	04/03/2024	1	7.4 Inspection and testing of equipment. 7.5 Equipment maintenance.
	06/03/2024	1	8 Quality Control 8.1 Concept of quality in construction. 8.2 Quality Standards- during construction.
	07/03/2024	1	8.2 After construction, destructive & non-destructive methods.
9TH	11/03/2024	1	9 Monitoring Progress 9.1 Programme and progress of work. 9.2 Work study.
	12/03/2024	1	10 Safety Management In Construction 10.1 Importance of safety 10.2 causes and effects of accidents in construction works

BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
DEPARTMENT OF CIVIL ENGINEERING
LESSON PLAN

	13/03/2024	1	10.2 causes and effects of accidents in construction works
	14/03/2024	1	10.3 Safety measures in worksites for excavation, scaffolding, formwork, fabrication and erection, demolition.
10TH	18/03/2024	1	10.4 Development of safety consciousness
	19/03/2024	1	10.5 Safety legislation- Workman's compensation act, contract labour act.
	20/03/2024	1	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.
	21/03/2024	1	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. 11.1 Definition of disaster related terms.
11TH	27/03/2024	1	11.2 Earthquake hazard and vulnerability, Magnitude and intensity scales of earthquake, seismic zones 11.2 earthquake hazard maps, types of structures and damage classification, effects in housing and resistant measures.
	28/03/2024	1	11.3 Wind / Cyclone hazard and vulnerability, wind speed and pressures, wind hazard and cyclone occurrence maps.
12TH	02/04/2024	1	INTERNAL ASSESSMENT

BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
DEPARTMENT OF CIVIL ENGINEERING
LESSON PLAN

	03/04/2024	1	INTERNAL ASSESSMENT
	04/04/2024	1	11.3 storm surveys and cyclone resistant measures.
13TH	08/04/2024	1	Monthly Class Test 2
	09/04/2024	1	11.4 Flood hazard and vulnerability.
	10/04/2024	1	11.4 Flood hazard and Flood prone areas of the country, General protection of habitants and flood resistant construction.
14TH	15/04/2024	1	11.5 Landslide & Thunderstorm incidence maps, Measures against Tsunami hazards.
	16/04/2024	1	11.5 Landslide & Thunderstorm incidence maps, Measures against Tsunami hazards.
	18/04/2024	1	11.6 Housing vulnerability risk tables and usage of vulnerability atlas of India, Inclusion of vulnerability atlas in Tender documents.
15TH	22/04/2024	1	Revision
	23/04/2024	1	Revision
	24/04/2024	1	Previous Year Questions and Answers discussion
	25/04/2024	1	Previous Year Questions and Answers discussion