

BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
DEPARTMENT OF CIVIL ENGINEERING



LESSON PLAN

SUBJECT: CONSTRUCTION MANAGEMENT (TH 2)

FACULTY: SRI PITABAS MISHRA

ACCADEMIC SESSION: 2022-23

SEMESTER: 6TH

SEC: C

Sd/-
H O D (Civil Engg.)

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Discipline: Civil Engineering	Semester: 6th		Name of Teaching Faculty : SRI PITABAS MISHRA
Subject: CONSTRUCTION MANAGEMENT	No. of Days / week class allotted: 04 period per week (Mon-1,Wed-1,Thu-1 Period, Sat-1 Period)		Semester From Date : 14-02-23 To Date 23-05-23 No. of Weeks: 15
Week	Date	No. of periods available	Topics to be covered
1ST	15/02/2023	1	1 Introduction To Construction Management: 1.1 Aims and objectives of construction management. 1.2 Functions of construction management.
	16/02/2023	1	1.3 The construction team componentsowner,engineer,architect,contractor-their functions and interrelationship and jurisdiction. 1.4 Resources for construction management-men,machines,materials,money
2ND	20/02/2023	1	2 Constructional Planning 2.1 Importance of Construction Planning 2.2 Developing work breakdown structure for construction work
	22/02/2023	1	2.3 Construction Planning stages-Pre-tender stage, Post-tender stage 2.4 Construction scheduling by Bar charts-preparation of Bar Charts for simple construction works.
	23/02/2023	1	2.5 Preparation of schedules for labour materials machinery, finance for small works. 2.6 Limitation of Bar charts.

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	25/02/2023	1	2.7 Construction scheduling by network techniques-definition of terms ,PERT and CPM techniques, advantages and disadvantages of two techniques, network analysis
3RD	27/02/2023	1	estimation of time and critical path, application of PERT and CPM techniques in sample construction works.
	01/03/2023	1	3 Materials and Stores Management 3.1 Classification of Stores-storage of stock. 3.2 Issue of materials-indent , invoice, bin card.
	02/03/2023	1	4 Construction Site Management 4.1 Job Lay out-Objectives, Review plans, specifications, Lay out of equipments
	04/03/2023	1	4.2 Location of equipment, organizing labour at site. 4.3 Job lay out for different construction sites.
4TH	06/03/2023	1	4.4 Principle of storing material at site.
	09/03/2023	1	5 Construction Organization: 5.1 Introduction – Characteristics, Structure, importance.
	11/03/2023	1	5.2 Organization types-line and staff, functions and their characteristics
5TH	13/03/2023	1	5.3 Principles of organization- meaning and significance of terms- control, authority, responsibility, job & task.
	15/03/2023	1	5.4 Leadership-necessity, styles of leadership, role of leader
	16/03/2023	1	5.5 Human relations-relations with subordinates, peers, Supervisors,

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			characteristics of group behavior
	18/03/2023	1	5.5 mob psychology, handling of grievances, absenteeism, labour welfare. 5.6 Conflicts in organization-genesis of conflicts, types-intrapersonal, interpersonal, intergroup, resolving conflicts.
6TH	20/03/2023	1	6 Construction Labour and Labour Management: 6.1 Preparing Labour schedule 6.2 Essential steps for optimum labour output
	22/03/2023	1	6.3 Labour characteristics
	23/03/2023	1	6.4 Wages & their payment
	25/03/2023	1	6.5 Labour incentives
	27/03/2023	1	6.6 Motivation- Classification of motives, different approaches to motivation.
7TH	29/03/2023	1	Monthly class test-1
8TH	03/04/2023	1	7 Equipment Management 7.1 Preparing the equipment schedule
	05/04/2023	1	7.2 Identification of different alternative equipment.
	06/04/2023	1	7.3 Importance of Owning & operating costs in making decisions for hiring & purchase of equipment
	08/04/2023	1	7.4 Inspection and testing of equipment
9TH	10/04/2023	1	7.5 Equipment maintenance
	12/04/2023	1	8 Quality Control 8.1 Concept of quality in construction

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	13/04/2023	1	8.2 Quality Standards- during construction,after construction, destructive & non destructive methods
	15/04/2023		9 Monitoring Progress 9.1 Programme and progress of work
10TH	17/04/2023	1	9.2 Work study
	19/04/2023	1	10 Safety Management In Construction 10.1 Importance of safety
	20/04/2023	1	10.2 causes and effects of accidents in construction works
	22/04/2023	1	10.3 Safety measures in worksites for excavation, scaffolding, formwork, fabrication and erection, demolition.
11TH	24/04/2023	1	10.4 Development of safety consciousness
	26/04/2023	1	10.5 Safety legislation- Workman's compensation act, contract labour act.
	27/04/2023	1	INTERNAL ASSESSMENT
	29/04/2023	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
12TH	01/05/2023	1	11.1 Definition of disaster related terms. 11.2 Earthquake hazard and vulnerability, Magnitude and intensity scales of earthquake, seismic zones
	03/05/2023	1	11.2 earthquake hazard maps, types of structures and damage classification, effects in housing and resistant measures. .

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	04/05/2023	1	11.3 Wind / Cyclone hazard and vulnerability, wind speed and pressures, wind hazard and cyclone occurrence maps
	06/05/2023	1	11.3 storm surveys and cyclone resistant measures
13TH	08/05/2023	1	11.4 Flood hazard and vulnerability
	10/05/2023	1	11.4 Flood hazard and Flood prone areas of the country, General protection of habitants and flood resistant construction.
	11/05/2023	1	11.5 Landslides, Tsunamis and Thunderstorm hazards and vulnerability,
	13/05/2023	1	Landslide & Thunderstorm incidence maps, Measures against Tsunami hazards.
14TH	15/05/2023	1	Monthly class test 2
	17/05/2023	1	Revision
	18/05/2023	1	Revision
	20/05/2023	1	Previous Year Questions and Answers discussion
15TH	22/05/2023	1	Previous Year Questions and Answers discussion