

BALASORE SCHOOL OF ENGINEERING, BALASORE

LESSON PLAN 2023/SEMESTER:-6th

SUBJECT:Construction management(TH-02)

NAME OF THE FACULTY:ER. S.L. ROUT

SL NO.	MONTH/NO. OF ACADEMIC DAYS AVAILABLE FOR THE SUBJECT	DATE	TOPICS TO BE COVERED
1	FEB/05	23/2/23	Introduction To Construction Management 1. Aims and objectives of construction management.
2		24/2/23	1.2 Functions of construction management
3		25/2/23	1.3 The construction team components owner, engineer, architect, contractor-their functions and interrelationship and jurisdiction
4		27/2/23	1.4 Resources for construction management- men, machines, materials, money
5		28/2/22	Constructional Planning 2.1 Importance of Construction Planning
6	MARCH/22	1/3/23	2.2 Developing work breakdown structure for construction work 2.3 Construction Planning stages-Pre-tender stage, Post-tender stage.
7		2/3/23	2.4 Construction scheduling by Bar charts-preparation of Bar Charts for simple construction works
8		3/3/23	2.5 Preparation of schedules for labour materials, machinery, finance for small works 2.6 Limitation of Bar charts
9		4/3/23	2.7 Construction scheduling by network techniques-defination 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.
10		6/3/23	Materials and Stores Management 3.1 Classification of Stores-storage of stock. 3.2 Issue of materials-indent , invoice, bin card
11		9/3/23	Construction Site Management 4.1 Job Lay out-Objectives, Review plans, specifications, Lay out of equipments..
12		10/3/23	4.2 Location of equipment, organizing labour at site.
13		11/3/23	4.3 Job lay out for different construction sites. 4.4 Principle of storing material at site
14		13/3/23	Construction Organization 5.1 Introduction – Characteristics, Structure, importance.
15		14/3/23	5.2 Organization types-line and staff, functions and their characteristics
16		15/3/23	5.3 Principles of organization- meaning and significance of terms- control, authority, responsibility, job & task.

17		16/3/23	5.4 Leadership-necessity, styles of leadership, role of leader
18		17/3/23	5.5 Human relations-relations with subordinates, peers, Supervisors, characteristics of group behavior, mob psychology, handling of grievances, absenteeism, labour welfare.
19		18/3/23	5.6 Conflicts in organization-genesis of conflicts, types-intrapersonal, interpersonal, intergroup, resolving conflicts
20		20/3/23	Construction Labour and Labour Management: 6.1 Preparing Labour schedule 6.2 Essential steps for optimum labour output
21		21/3/23	6.3 Labour characteristics 6.4 Wages & their payment 6.5 Labour incentives
22		22/3/23	6.6 Motivation- Classification of motives, different approaches to motivation
23		23/3/23	Equipment Management 7.1 Preparing the equipment schedule 7.2 Identification of different alternative equipment
24		24/3/23	7.3 Importance of Owning & operating costs in making decisions for hiring & purchase of equipment
25		25/3/23	7.4 Inspection and testing of equipment 7.5 Equipment maintenance
26		27/3/23	Quality Control 8.1 Concept of quality in construction
27		28/3/23	8.2 Quality Standards- during construction, after construction
28		29/3/23	destructive & non destructive methods. Monitoring Progress
29	APRIL/12	3/4/23	Monitoring Progress 9.1 Programme and progress of work
30		4/4/23	9.2 Work study 9.3 Analysis and control of physical and financial progress corrective measures.
31		5/4/23	Safety Management In Construction
32		6/4/23	Safety Management In Construction 10.1 Importance of safety
33		10/4/23	10.2 causes and effects of accidents in construction works.
34		11/4/23	10.3 Safety measures in worksites for excavation, scaffolding, formwork, fabrication and erection, demolition
35		12/4/23	10.4 Development of safety consciousness
36		13/4/23	10.5 Safety legislation- Workman's compensation act, contract labour act
37		24/4/23	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
38		25/4/23	Definition of disaster related terms. Role of Vulnerability Atlas of India in construction projects
39		26/4/23	11.2 Earthquake hazard and vulnerability
40		27/4/23	Magnitude and intensity scales OF earthquake, seismic zones, earthquake hazard maps
41		28/4/23	types of structures and damage classification, effects in housing and resistant measures

42	May/11	1/5/23	11.3 Wind / Cyclone hazard and vulnerability, wind speed and pressures,.
43		2/5/23	storm surveys and cyclone resistant measures
44		3/5/23	11.4 Flood hazard and vulnerability,
45		4/5/23	Flood hazard and Flood prone areas of the country
46		5/5/23	General protection of habitants and flood resistant construction.
47		6/5/23	11.5 Landslides, Tsunamis and Thunderstorm hazards and vulnerability,
48		8/5/23	Landslide & Thunderstorm incidence maps, Measures against Tsunami hazards.
49		9/5/23	11.6 Housing vulnerability risk tables and usage of vulnerability atlas of India, Inclusion of vulnerability atlas in Tender documents

BRIEF SUMMARY OF THE PLAN:

SL NO	MONTH	UNITS/CHAPTER TO BE COVERED	% OF COVERAGE
1	MAR	Ch-1, Ch-2....	05%
2	APRIL	Ch-2, CH-3 ,CH-4, CH-5 ,CH-6, CH7, CH-8,	55%
3	MAY	CH-9, CH-10 , CH-11.....	35%
4	JUNE	CH-11	05%



SIGNATURE OF THE FACULTY:

DATE: 23.2.23



SIGNATURE OF THE PRINCIPAL

DATE: