## LESSON PLAN : TH.2-CONSTRUCTION MANAGEN MENT

Discipline: civil	Semester: 6TH	Name of the Teaching Faculty: Ganesh Prodhan
engineering Subject: TH.2- CONSTRUCTIO	No. of	Semester From Date : 14 02/2023 to Date:
N MANAGEMEN	days/ per week class allotted: 4	No. of Weeks: 15
Week	Class Day	Theory/ Practical Topics
		1 Introduction To Construction Management
1ST	1	1.1 Aims and objectives of construction management
	2	1.2 Functions of construction management.
	2	1.3 The construction team components-owner, engineer, architect, contractor-their functions
	3	and interrelationship and jurisdiction.
	4	1.4 Resources for construction management-men,machines,materials,money
		2 Constructional Planning
		2.1 Importance of Construction Planning 2.2 Developing work breakdown structure for
2ND	1	construction work
	2	2.3 Construction Planning stages-Pre-tender stage, Post-tender stage.
	2	2.4 Construction scheduling by Bar charts-preparation of Bar Charts for simple construction
	3	works
	4	2.5 Preparation of schedules for labour materials, machinery, finance for small works
3RD	1	2.6 Limitation of Bar charts
		2.7 Construction scheduling by network techniques-defination of terms ,PERT and CPM
	2	techniques advantages and disadvantages of two techniques
		network analysis, estimation of time and critical path, application of PERT and CPM technique
	3	in sample construction works.
		3 Materials and Stores Management
	4	3.1 Classification of Stores-storage of stock.
4TH	1	3.1 Classification of Stores-storage of stock.
	2	3.2 Issue of materials-indent , invoice, bin card
	3	3.2 Issue of materials-indent , invoice, bin card
		4 Construction Site Management
	4	4.1 Job Lay out-Objectives, Review plans, specifications, Lay out of equipments.
5TH	1	4.1 Job Lay out-Objectives, Review plans, specifications, Lay out of equipments.
	2	4.2 Location of equipment, organizing labour at site.
	3	4.3 Job lay out for different construction sites.
	4	4.4 Principle of storing material at site.
	†	5 Construction Organization:
стн	1	5.1 Introduction – Characteristics, Structure, importance.
<u>бТН</u>	2	5.2 Organization types-line and staff, functions and their characteristics
		5.3 Principles of organization- meaning and significance of terms- control, authority,
	3	responsibility, job & task
	4	5.4 Leadership-necessity, styles of leadership, role of leader
	4	5.5 Human relations-relations with subordinates, peers, Supervisors, characteristics of group
7TH	1	behavior, mob psychology, handling of grievances, absenteeism, labour welfare.
	2	5.6 Conflicts in organization-genesis of conflicts, types-intrapersonal, interpersonal,
		intergroup, resolving conflicts.
		6 Construction Labour and Labour Management:
	3	6.1 Preparing Labour schedule
	4	6.2 Essential steps for optimum labour output
8TH	1	A Labour characteristics

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5	2	6.4 Wages & their payment
	3	6.5 Labour incentives
	4	6.6 Motivation- Classification of motives, different approaches to motivation.
		7 Equipment Management
9TH	1	7.1 Preparing the equipment schedule
	2	7.2 Identification of different alternative equipment
		7.3 Importance of Owning & operating costs in making decisions for hiring & purchase of
	3	equipment
		7.3 Importance of Owning & operating costs in making decisions for hiring & purchase of
	4	equipment
10TH	1	7.4 Inspection and testing of equipment
	2	7.5 Equipment maintenance
		8 Quality Control
	3	8.1 Concept of quality in construction
	4	8.1 Concept of quality in construction
		8.2 Quality Standards- during construction, after construction, destructive & non destructive
IITH	1	methods.
		8.2 Quality Standards- during construction, after construction, destructive & non destructive
	2	methods.
		8.2 Quality Standards- during construction, after construction, destructive & non destructive
	3	methods.
		9 Monitoring Progress
	4	9.1 Programme and progress of work
L2TH	1	9.1 Programme and progress of work
	2	9.2 Work study
	3	9.2 Work study
	4	9.3 Analysis and control of physical and financial progress corrective measures.
L3TH	1	9.3 Analysis and control of physical and financial progress corrective measures.
		10 Safety Management In Construction
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-		10.1 Importance of safety 10.2 causes and effects of accidents in construction works
	3	10.3 Safety measures in worksites for excavation, scaffolding, formwork, fabrication and
	1	erection, demontion.
	4	10.3 Safety measures in worksites for excavation, scaffolding, formwork, fabrication and erection, demolition.
4TH	1	creation, demontion.
	2	10.4 Development of safety consciousness
	-	10.5 Safety legislation- Workman's compensation act, contract labour act.
-		11 Role of Vulnerability Atlas of India in construction projects
	3	11.1 Introduction to Vulnerability Atlas of India, Concepts of natural hazards and disasters and vulnerability profile of India. Definition of disasters and disasters
	4	11.2 Earthquake hazard and vulnerability, Magnitude and intensity scales of earthquake, seismic zones, earthquake bazard mana, brown for
		seismic zones, earthquake hazard maps, types of structures and damage classification, effect in housing and resistant measures.
		- medsares.
15TH ,	1	11.3 Wind / Cyclone hazard and vulnerability, wind speed and pressures, wind hazard and cyclone occurrence maps, storm surveys and cyclone occurrence maps.
	2	11.4 Flood hazard and vulnerability. Flood bazard as d st
		General protection of habitants and flood resistant construction.
	3	- Lis cariasides, isularitis and inunderstorm based
		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.
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Garesh pradhan 09/02/2023

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