

LESSON PLAN FOR SUMMER 2022

DISCIPLINE:- CIVIL ENGG.		SEMESTER:-6TH SEM 2ND SHIFT	NAME OF THE TEACHING FACULTY:- MONALI MONALISA BAL (PTGF)
SUBJECT:- CONSTRUCTION MANAGEMENT (TH-2)		NO. OF DAYS/PER WEEK CLASS ALLOTTED:- 4T	SEMESTER - 6TH Sem SEC B FROM DATE-10/03/2022 TO DATE- 10/06/2022 NO. OF WEEKS-14WEEKS
WEEK	DATE	CLASS DAY	THEORY TOPICS
			Chapter-1 Introduction To Construction Management(4P)
1ST WEEK	3/10/2022	2nd	1.1 Aims and objectives of construction management.
	3/11/2022	3rd	1.2 Functions of construction management.
	3/12/2022	4th	1.3 The construction team components- owner,engineer,architect,contractor-their functions and interrelationship and jurisdiction.
2nd WEEK	16.03.2022	1st	1.4 Resources for construction management- men,machines,materials,money
	3/17/2022	2nd	Chapter-2 Constructional Planning(7P) 2.1 Importance of Construction Planning
3rd WEEK	3/23/2022	1st	2.2 Developing work breakdown structure for construction work
	3/24/2022	2nd	2.3 Construction Planning stages-Pre-tender stage, Post-tender stage.
	3/25/2022	3rd	2.4 Construction scheduling by Bar charts- preparation of Bar Charts for simple construction works.
	3/26/2022	4th	2.5 Preparation of schedules for labour materials,machinery, finance for small works
4th WEEK	3/30/2022	1st	2.6 Limitation of Bar charts
	3/31/2022	2nd	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
	4/2/2022	4th	3.0 Materials and Stores Management (4P) 3.1 Classification of Stores-storage of stock.
5th WEEK	4/6/2022	1st	3.1 Classification of Stores-storage of stock.
	4/7/2022	2nd	3.2 Issue of materials-indent , invoice, bin card
	4/8/2022	3rd	3.2 Issue of materials-indent , invoice, bin card
	4/9/2022	4th	4.0Construction Site Management (5P) 4.1 Job Lay out-Objectives, Review plans, specifications
6th WEEK	4/13/2022	1st	Lay out of equipments.
	4/16/2022	4th	4.2 Location of equipment, organizing labour at site.
7th WEEK	4/20/2022	1st	4.3 Job lay out for different construction sites.
	4/21/2022	2nd	4.4 Principle of storing material at site.
			5.0 Construction Organization: (6P)

	4/22/2022	3rd	5.1 Introduction – Characteristics, Structure, importance.
	4/23/2022	4th	5.2 Organization types-line and staff, functions and their characteristics
8th WEEK	4/27/2022	1st	5.3 Principles of organization- meaning and significance of terms- control, authority, responsibility, job & task.
	4/28/2022	2nd	5.4 Leadership-necessity, styles of leadership, role of leader
	4/29/2022	3rd	5.5 Human relations-relations with subordinates, peers, Supervisors, characteristics of group behavior, mob psychology, handling of grievances, absenteeism, labour welfare.
	4/30/2022	4th	5.6 Conflicts in organization-genesis of conflicts, types-intrapersonal, interpersonal, intergroup, resolving conflicts.
9th WEEK			6.0 Construction Labour and Labour Management:(6P)
	5/4/2022	1st	6.1 Preparing Labour schedule
	5/5/2022	2nd	6.2 Essential steps for optimum labour output
	5/6/2022	3rd	6.3 Labour characteristics
	5/7/2022	4th	6.4 Wages & their payment
10th WEEK	5/11/2022	1st	6.5 Labour incentives
	5/12/2022	2nd	6.6 Motivation- Classification of motives, different approaches to motivation.
			7.0 Equipment Management (6P)
	5/13/2022	3rd	7.1 Preparing the equipment schedule
	5/14/2022	4th	7.2 Identification of different alternative equipment
11th WEEK	5/18/2022	1st	7.3 Importance of Owning & operating costs in making decisions for hiring & purchase of equipment
	5/19/2022	2nd	7.3 Importance of Owning & operating costs in making decisions for hiring & purchase of equipment
	5/20/2022	3rd	7.4 Inspection and testing of equipment
	5/21/2022	4th	7.5 Equipment maintenance
			8.0 Quality Control (5P)
12th WEEK	5/25/2022	1st	8.1 Concept of quality in construction
	5/26/2022	2nd	8.1 Concept of quality in construction
	5/27/2022	3rd	8.2 Quality Standards- during construction, after construction, destructive & non destructive methods.
	5/28/2022	4th	8.2 Quality Standards- during construction, after construction, destructive & non destructive methods.
	6/1/2022	1st	8.2 Quality Standards- during construction, after construction, destructive & non destructive methods.

13th WEEK			9.0 Monitoring Progress (5P)
	6/2/2022	2nd	9.1 Programme and progress of work
	6/3/2022	3rd	9.2 Work study
	6/4/2022	4th	9.3 Analysis and control of physical and financial progress corrective measures.
14th WEEK	6/8/2022	1st	9.3 Analysis and control of physical and financial progress corrective measures.
	6/9/2022	2nd	9.3 Analysis and control of physical and financial progress corrective measures.
			10.0 Safety Management In Construction (5P)
	6/10/2022	3rd	10.1 Importance of safety
EXTRA CLASSES REQUIRED			10.2 causes and effects of accidents in construction works
			10.3 Safety measures in worksites for excavation, scaffolding, formwork, fabrication and erection, demolition.
			10.4 Development of safety consciousness
			10.5 Safety legislation- Workman's compensation act, contract labour act.
			11.0 Role of Vulnerability Atlas of India in construction projects (6P)
			11.1 Introduction to Vulnerability Atlas of India, Concepts of natural hazards and disasters and vulnerability profile of India. Definition of disaster related terms.
			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.
			11.3 Wind / Cyclone hazard and vulnerability, wind speed and pressures, wind hazard and cyclone occurrence maps, storm surveys and cyclone resistant measures.
			11.4 Flood hazard and vulnerability, Flood hazard and Flood prone areas of the country, General protection of habitants and flood resistant construction.
			11.5 Landslides, Tsunamis and Thunderstorm hazards and vulnerability, Landslide & 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.