

LESSON PLAN FOR SUMMER 2022

DISCIPLINE:- CIVIL ENGG.		SEMESTER:-6TH SEM 1ST SHIFT	NAME OF THE TEACHING FACULTY:- SAIJALA BHUYAN
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	3RD	1.1 Aims and objectives of construction management.
2nd WEEK	3/14/2022	1ST	1.2 Functions of construction management. 1.3 The construction team components- owner,engineer,architect,contractor-their functions and interrelationship and jurisdiction.
	3/15/2022	2ND	1.4 Resources for construction management-
			Chapter-2 Constructional Planning(7P)
	3/17/2022	3RD	2.1 Importance of Construction Planning
3rd WEEK	3/21/2022	1ST	2.2 Developing work breakdown structure for construction work 2.3 Construction Planning stages-Pre-tender stage, Post-tender stage.
	3/22/2022	2nd	2.4 Construction scheduling by Bar charts-preparation of Bar Charts for simple construction works.
	3/24/2022	3rd	2.5 Preparation of schedules for labour materials,machinery, finance for small works
4th WEEK	3/28/2022	1ST	2.6 Limitation of Bar charts 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.
			3.0 Materials and Stores Management (4P)
	3/29/2022	2nd	3.1 Classification of Stores-storage of stock.
	3/31/2022	3rd	3.1 Classification of Stores-storage of stock.
5th WEEK	4/4/2022	1ST	3.2 Issue of materials-indent , invoice, bin card
			4.0Construction Site Management (5P)
	4/5/2022	2nd	4.1 Job Lay out-Objectives, Review plans, specifications
	4/7/2022	3rd	Lay out of equipments.
6th WEEK	4/11/2022	1ST	4.2 Location of equipment, organizing labour at site. 4.3 Job lay out for different construction sites.
	4/12/2022	2nd	4.4 Principle of storing material at site.
			5.0 Construction Organization: (6P)
7th WEEK	4/18/2022	1ST	5.1 Introduction – Characteristics, Structure, importance. 5.2 Organization types-line and staff, functions and their characteristics
	4/19/2022	2nd	5.3 Principles of organization- meaning and significance of terms- control, authority, responsibility, job & task.
	4/21/2022	3rd	5.4 Leadership-necessity, styles of leadership, role of leader

8th WEEK	4/25/2022	1ST	Supervisors, characteristics of group behavior, mob psychology, handling of grievances, absenteeism, labour welfare. 5.6 Conflicts in organization-genesis of conflicts, types-intrapersonal, interpersonal, intergroup, resolving conflicts.
			6.0 Construction Labour and Labour Management:(6P)
	4/26/2022	2nd	6.1 Preparing Labour schedule
	4/28/2022	3rd	6.2 Essential steps for optimum labour output
9th WEEK	5/2/2022	1ST	6.3 Labour characteristics 6.4 Wages & their payment
	5/5/2022	3rd	6.5 Labour incentives
10th WEEK	5/9/2022	1ST	6.6 Motivation- Classification of motives, different approaches to motivation. 7.0 Equipment Management (6P) 7.1 Preparing the equipment schedule
	5/10/2022	2nd	7.2 Identification of different alternative equipment
	5/12/2022	3rd	7.3 Importance of Owning & operating costs in making decisions for hiring & purchase of equipment
11th WEEK	5/17/2022	2nd	7.3 Importance of Owning & operating costs in making decisions for hiring & purchase of equipment
	5/19/2022	3rd	7.4 Inspection and testing of equipment
12th WEEK	5/23/2022	1ST	7.5 Equipment maintenance 8.0 Quality Control (5P) 8.1 Concept of quality in construction
	5/24/2022	2nd	8.1 Concept of quality in construction
	5/26/2022	3rd	8.2 Quality Standards- during construction, after construction, destructive & non destructive methods.
13TH WEEK	5/31/2022	2ND	8.2 Quality Standards- during construction, after construction, destructive & non destructive methods.
	6/2/2022	3RD	8.2 Quality Standards- during construction, after construction, destructive & non destructive methods.
			9.0 Monitoring Progress (5P)
14th WEEK	6/6/2022	1ST	9.1 Programme and progress of work 9.2 Work study
	6/7/2022	2nd	9.3 Analysis and control of physical and financial progress corrective measures.
	6/9/2022	3rd	9.3 Analysis and control of physical and financial progress corrective measures.
			9.3 Analysis and control of physical and financial progress corrective measures.
			10.0 Safety Management In Construction (5P)
			10.1 Importance of safety
			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.

EXTRA CLASSES REQUIRED			11.0 Role of Vulnerability Atlas of India in construction projects (6P)
			11.1 Introduction to Vulnerability Atlas of India, Concepts of
			11.2 Earthquake hazard and vulnerability, Magnitude and
			11.3 Wind / Cyclone hazard and vulnerability, wind speed and pressures, wind hazard and cyclone occurrence maps,
			11.4 Flood hazard and vulnerability, Flood hazard and Flood prone areas of the country, General protection of habitans and flood resistant construction.
			11.5 Landslides, Tsunamis and Thunderstorm hazards and vulnerability, Landslide & Thunderstorm incidence maps,
			11.6 Housing vulnerability risk tables and usage of vulnerability atlas of India, Inclusion of vulnerability atlas in Tender documents.