

LESSON PLAN

Discipline:

Civil Engg. ,UGMIT Rayagada

Semester:

6th

Subject:

Construction Management (Th-2)

Class allotted:

04P/Week

Session:

2024(15)

Week	Class Day	Theory	Remarks
1	1-4	1 Introduction To Construction Management 1.1 Aims and objectives of construction management. 1.2 Functions of construction management. 1.3 The construction team components-owner,engineer,architect,contractor-their functions and interrelationship and jurisdiction. 1.4 Resources for construction management-men,machines,materials,money	
2	5-8	2 Constructional Planning 2.1 Importance of Construction Planning 2.2 Developing work breakdown structure for construction work 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. 2.5 Preparation of schedules for labour materials,machinery, finance for small works	
3	9-12	2.6 Limitation of Bar charts 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. 3 Materials and Stores Management 3.1 Classification of Stores- storage of stock.	
4	13-16	3.2 Issue of materials-indent , invoice, bin card 4 Construction Site Management 4.1 Job Lay out-Objectives, Review plans, specifications, Lay out of equipments.	
5	17-20	4.2 Location of equipment, organizing labour at site. 4.3 Job lay out for different construction sites. 4.4 Principle of storing material at site.	
6	21-24	5 Construction Organization: 5.1 Introduction - Characteristics, Structure, Importance. 5.2 Organization types-line and staff, functions and their characteristics 5.3 Principles of organization- meaning and significance	

		of terms- control, authority, responsibility, job & task. 5.4 Leadership-necessity, styles of leadership, role of leader	
7	25-28	5.5 Human relations-relations with subordinates, peers, 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 Construction Labour and Labour Management: 6.1 Preparing Labour schedule 6.2 Essential steps for optimum labour output	
8	29-32	6.3 Labour characteristics 6.4 Wages & their payment 6.5 Labour incentives 6.6 Motivation- Classification of motives, different approaches to motivation.	
9	33-36	7 Equipment Management 7.1 Preparing the equipment schedule 7.2 Identification of different alternative equipment 7.3 Importance of Owning & operating costs in making decisions for hiring & purchase of equipment	
10	37-40	7.4 Inspection and testing of equipment 7.5 Equipment maintenance 8 Quality Control 8.1 Concept of quality in construction	
11	41-44	8.2 Quality Standards- during construction, after construction, destructive & non destructive methods. 9 Monitoring Progress 9.1 Programme and progress of work	
12	45-48	9.2 Work study 9.3 Analysis and control of physical and financial progress corrective measures.	
13	49-52	9.3 Analysis and control of physical and financial progress corrective measures 10 Safety Management In Construction 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.	
14	53-56	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 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.	
15	57-60	<p>11.3 Wind / Cyclone hazard and vulnerability, wind speed and pressures, wind hazard and cyclone occurrence maps, storm surveys and cyclone resistant measures.</p> <p>11.4 Flood hazard and vulnerability, Flood hazard and Flood prone areas of the country, General protection of habitants and flood resistant construction.</p> <p>11.5 Landslides, Tsunamis and Thunderstorm hazards and vulnerability, Landslide & Thunderstorm incidence maps, Measures against Tsunami hazards.</p> <p>11.6 Housing vulnerability risk tables and usage of vulnerability atlas of India, Inclusion of vulnerability atlas in Tender documents.</p>	

Signature of Faculty: *Chinnmaya Maharana*
D-13/1/24

Signature of HOD: *Amal Kumar*
13/1/2024