

## Lesson Plan

**Subject :-**Construction management (Code) TH-2      **Name of faculty:-**Rajashree saho

**Semester :-**6th

**Class allotted-** 60

**Branch :-**Civil engg..

Discipline	Semester:-6 <sup>th</sup>	From date:16/01/2024 To date:6/04/2024	Teaching Aid
Subject:	No. of days/ per week 4p/w :	Theory/ Practical –Topics/Lesson	
Week	Date/Period		

1	16/01/2024 to 20/01/2024	<b>1.Introduction To Construction Management</b> 1.1 Aims and objectives of construction management. 1.2 Functions of construction management	White board & marker
2	22/01/2024 to 27/01/2024	1.3 The construction team componentsowner,engineer,architect,contractor-their functions and interrelationship and jurisdiction. 1.4 Resources for construction management-men,machines,materials,money	White board & marker
3	29/01/2024 to 03/02/2024	<b>2.Constructional Planning</b> 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	White board & marker
4	05/02/2024 to 10/02/2024	2.5 Preparation of schedules for labour materials,machinery, finance for small works 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.	White board & marker
5	12/02/2024 to 17/02/2024	<b>3. Materials and Stores Management</b> 3.1 Classification of Stores-storage of stock. 3.2 Issue of materials-indent , invoice, bin card	White board & marker

6	19/02/2024 to 24/02/2024	<p><b>4. Construction Site Management</b></p> <p>4.1 Job Lay out-Objectives, Review plans, specifications, Lay out of equipments.</p> <p>4.2 Location of equipment, organizing labour at site.</p> <p>4.3 Job lay out for different construction sites. 4.4 Principle of storing material at site.</p>	White board & marker
7	26/02/2024 to 02/03/2024	<p><b>5. Construction Organization:</b></p> <p>5.1 Introduction – Characteristics, Structure, importance.</p> <p>5.2 Organization types-line and staff, functions and their characteristics</p> <p>5.3 Principles of organization- meaning and significance of terms- control, authority, responsibility, job &amp; task.</p> <p>5.4 Leadership-necessity, styles of leadership, role of leader</p>	White board & marker
8	04/03/2024 to 09/03/2024	<p>5.5 Human relations-relations with subordinates, peers, Supervisors, characteristics of group behavior, mob psychology, handling of grievances, absenteeism, labour welfare.</p> <p>5.6 Conflicts in organization-genesis of conflicts, types-intrapersonal, interpersonal, intergroup, resolving conflicts.</p> <p><b>6. Construction Labour and Labour Management:</b></p> <p>6.1 Preparing Labour schedule</p> <p>6.2 Essential steps for optimum labour output</p>	White board & marker
9	11/03/2024 to 16/03/2024	<p>6.3 Labour characteristics</p> <p>6.4 Wages &amp; their payment</p> <p>6.5 Labour incentives</p> <p>6.6 Motivation- Classification of motives, different approaches to motivation.</p>	White board & marker
10	18/03/2024 to 23/03/2024	<p><b>7. Equipment Management</b></p> <p>7.1 Preparing the equipment schedule</p> <p>7.2 Identification of different alternative equipment</p> <p>7.3 Importance of Owning &amp; operating costs in making decisions for hiring &amp; purchase of equipment</p> <p>7.4 Inspection and testing of equipment</p> <p>7.5 Equipment maintenance</p>	

11	27/03/2024 to 30/03/2024	<b>8. Quality Control</b> 8.1 Concept of quality in construction 8.2 Quality Standards- during construction, after construction, destructive & non destructive methods.	White board & marker
12	02/04/2024 to 06/04/2024	<b>9. Monitoring Progress</b> 9.1 Programme and progress of work 9.2 Work study 9.3 Analysis and control of physical and financial progress corrective measures.	White board & marker & smart board
13	08/04/2024 to 13/04/2024	<b>10. Safety Management In Construction</b> 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.	White board & marker
14	15/04/2024 to 20/04/2024	<b>11. Role of Vulnerability Atlas of India in construction projects</b> 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.	White board & marker
15	22/04/2024 to 26/04/2024	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 docum	White board & marker & smart board

  
 Signature of HOD

Rajashree Sahoo  
 Signature of faculty