



LESSON PLAN

Session : Feb 2022- June 23
Course Type Theory
Semester/Branch :: 6th Semester, Civil Engineering
Subject (with code) :: Construction Management (Th.2)
Contact hours/week :: 4 hours
Name of Faculty :: Prof.Saruk Mallick

S L. N O.	CLA SS Req uire d	COURSE CONTENT	MODE OF DELIVERY	EXHIBIT/ REFERENCE
1	1	1.1 Aims and objectives of construction management.	Lecture	Study material
2	1	1.2 Functions of construction management.	Lecture	Study material
3	1	1.3 The construction team components owner, engineer, architect, contractor-their functions and interrelationship and jurisdiction.	Lecture	Study material
4	1	1.4 Resources for construction management men, machines, materials, money	Lecture	Study material
5	1	2.1 Importance of Construction Planning 2.2 Developing work breakdown structure for construction work	Field visit	Study material
6	2	2.3 Construction Planning stages-Pre-tender stage, Post-tender stage.	Field visit	Study material
7	1	2.4 Construction scheduling by Bar charts- preparation of Bar Charts for simple construction works.	Lecture	Study material
8	2	2.5 Preparation of schedules for labour materials, machinery,	Lecture	
9	1	2.6 finance for small works 2.6 Limitation of Bar charts	Lecture	Study material
10	2	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,	Lecture	Study material
12	1	3.1 Classification of Stores-storage of stock.	Lecture	Study material
13	2	3.2 Issue of materials-indent , invoice, bin card	Lecture	Study material
14	1	4.1 Job Lay out-Objectives, Review plans, specifications, Lay out of equipments.	Lecture	Study material
15	1	4.2 Location of equipment, organizing labour at site.	Lecture	Study material

16	1	4.3 Job lay out for different construction sites.	Lecture	Study material
17	1	4.4 Principle of storing material at site.	Lecture	Study material
18	1	5.1 Introduction – Characteristics, Structure, importance.	Lecture	Study material
19	2	5.2 Organization types-line and staff, functions and their characteristics	Lecture	Study material
20	2	5.3 Principles of organization- meaning and significance of terms- control, authority, responsibility, job & task.	Lecture	Study material
21	1	5.4 Leadership-necessity, styles of leadership, role of leader	Lecture	Study material
22	2	5.5 Human relations-relations with subordinates, peers, Supervisors, characteristics of group behavior, mob psychology, handling of grievances, absenteeism, labour welfare.	Lecture	Study material
23	2	5.6 Conflicts in organization-genesis of conflicts, types-intrapersonal, interpersonal, intergroup, resolving conflicts.	Lecture	Study material
24	3	6.1 Preparing Labour schedule 6.2 Essential steps for optimum labour output 6.3 Labour characteristics 6.4 Wages & their payment 6.5 Labour incentives 6.6 Motivation- Classification of motives, different approaches to motivation.	Lecture	Study material
25	2	7.1 Preparing the equipment schedule	Lecture	Study material
26	1	7.2 Identification of different alternative equipment	Lecture	Study material
27	3	7.3 Importance of Owning & operating costs in making decisions for hiring & purchase of equipment	Lecture	Study material
28	1	7.4 Inspection and testing of equipment 7.5 Equipment maintenance	Lecture	Study material
29	1	8.1 Concept of quality in construction	Lecture	Study material
30	1	8.2 Quality Standards- during construction, after construction, destructive & non destructive methods.	Lecture	Study material
31	1	9.1 Programme and progress of work	Lecture	Study material
32	1	9.2 Work study	Lecture	Study material
33	1	9.3 Analysis and control of physical and financial progress corrective measures.	Lecture	Study material

34	1	10.1 Importance of safety	Lecture	Study material
35	1	10.2 causes and effects of accidents in construction works	Lecture	Study material
36	2	10.3 Safety measures in worksites for excavation, scaffolding, formwork, fabrication and erection, demolition.	Lecture	Study material
37	2	10.4 Development of safety consciousness 10.5 Safety legislation- Workman's compensation act, contract labour act.	Lecture	Study material
38	2	11.1 Introduction to Vulnerability Atlas of India, Concepts of natural hazards and disasters and vulnerability profile of India. Definition of disaster related terms.	Lecture	Study material
39	1	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.	Lecture	Study material
40	1	11.3 Wind / Cyclone hazard and vulnerability, wind speed and pressures, wind hazard and cyclone occurrence maps, storm surveys and cyclone resistant measures.	Lecture	Study material
41	1	11.4 Flood hazard and vulnerability, Flood hazard and Flood prone areas of the country, General protection of habitants and flood resistant construction.	Lecture	Study material
42	1	11.5 Landslides, Tsunamis and Thunderstorm hazards and vulnerability, Landslide & Thunderstorm incidence maps, Measures against Tsunami hazards.	Lecture	Study material
43	1	11.6 Housing vulnerability risk tables and usage of vulnerability atlas of India, Inclusion of vulnerability atlas in Tender documents.	Lecture	Study material
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45	1	Doubt clearing classes	Lecture	Study material
46	1	Previous year question answer discussion	Lecture	Study material