

GANDHI INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Lesson Plan

Name of the Program	Diploma in Civil Engineering			
Course Name	CONSTRUCTION MANAGEMENT		Course Code	Th.2
Course Year	Third	Semester	6th	Academic Period
				2022-2023
No. of Classes allotted per Week	04		Planned Classes Required to Complete the Course	60

Sl. No.	Topics to be covered	Module	No. of hours Required	Mode of Teaching
1	Aims and objectives of construction management	I	01	Black Board
2	Functions of construction management	I	01	Black Board
3	The construction team components-owner, engineer, architect, contractor-their functions and interrelationship and jurisdiction.	I	01	Black Board
4	Resources for construction management-men,machines,materials,money	I	01	Black Board
5	Constructional Planning Importance of Construction Planning.	I	01	Black Board
6	Developing work breakdown structure for construction work.	I	01	Black Board
7	Construction Planning stages-Pre-tender stage, Post-tender stage.	II	01	Black Board
8	Construction scheduling by Bar charts-preparation of Bar Charts for simple construction works.	II	01	Black Board
9	Preparation of schedules for labour materials,machinery, finance for small works.	II	01	Black Board
10	Limitation of Bar charts	II	01	Black Board
11	Construction scheduling by network techniques-definition of terms ,PERT and CPM techniques,	II	01	Black Board
12	advantages and disadvantages of two techniques, network analysis,	II	01	Black Board
13	application of PERT and CPM techniques in sample construction works.	II	01	Black Board
14	Materials and Stores Management Classification of Stores-storage of stock	II	01	Black Board
15	Issue of materials-indent , invoice, bin card,	II	01	Black Board
16	Stores Accounting Procedure	II	01	Black Board
17	Inspection of stores, T&P account's register, procedure of write off	II	01	Black Board
18	Construction Site Management Job Lay out-Objectives, Review plans, specifications, Lay out of equipments	II	01	Black Board

GANDHI INSTITUTE OF TECHNOLOGY AND MANAGEMENT

19	Factors influencing selection, design and layout of temporary facilities and services at construction site	II	01	Black Board
20	Principles of storing material at site.	II	01	Black Board
21	Job lay out for different construction sites.	II	01	Black Board
22	Construction Organisation: Introduction – Characteristics, Structure, importance	II	01	Black Board
23	Organization types-line and staff, functions and their characteristics	II	01	Black Board
24	Principles of organization- meaning and significance of terms- control, authority, responsibility, job & task.	II	01	Black Board
25	Leadership-necessity, styles of leadership, role of leader.	II	01	Black Board
26	Principles of effective supervision	III	01	Black Board
27	Human relations-relations with subordinates, peers, Supervisors, characteristics of group behavior, mob psychology, handling of grievances, absenteeism, labour welfare	III	01	Black Board
28	Conflicts in organization-genesis of conflicts, types- intrapersonal, interpersonal, intergroup, resolving conflicts	III	01	Black Board
29	Construction Labour and Labour Management: Preparing Labour schedul.	III	01	Black Board
30	Essential steps for optimum labour output.	IV	01	Black Board
31	Labour characteristics.	IV	01	Black Board
32	Labour incentives	IV	01	Black Board
33	Motivation- Classification of motives, different approaches to motivation	IV	01	Black Board
34	Morale	IV	01	Black Board
35	Relevant labour laws and case studies related to labour disputes	IV	01	Black Board
36	Equipment Management Preparing the equipment schedule	IV	01	Black Board
37	Identification of different alternative equipment	V	01	Black Board
38	Importance of Owning & operating costs in making decisions for hiring & purchase of equipment.	V	01	Black Board
39	Inspection and testing of equipment	V	01	Black Board
40	Equipment maintenance and minor repairs	V	01	Black Board
41	Quality Control Concept of quality in construction.	V	01	Black Board
42	Quality Standards- during construction, after construction, destructive & non destructive methods..	V	01	Black Board

GANDHI INSTITUTE OF TECHNOLOGY AND MANAGEMENT

43	Monitoring Progress Programme and progress of work.	VI	01	Black Board
44	Analysis and control of physical and financial progress corrective measures.	VI	01	Black Board
45	Safety Management In Construction Importance of safety	VI	01	Black Board
46	causes and effects of accidents in construction works	VI	01	Black Board
47	Safety measures in worksites for excavation, scaffolding, formwork, fabrication and erection, demolition	VI	01	Black Board
48	Development of safety consciousness,	VII	01	Black Board
49	Safety legislation- Workman's compensation act, contract labour act.	VII	01	Black Board
50	Work study	VII	01	Black Board
51	Revision		01	Black Board
52	Revision		01	Black Board
53	Revision		01	Black Board
54	Doubt clearing		01	Black Board
55	Question ans. discussion		01	Black Board

Signature of the Faculty

Signature of the HoD