

LESSON PLAN – CONSTRUCTION MANAGEMENT

Course Code: CEPC 202B

Programme: Diploma in Civil Engineering

L-T-P: 3-0-0 | Credits: 3 | Category: PC

Total Theory Contact Hours: 45

Session-2026S

Inst-GP ,Sonepur

Sl. No.	Week No.	Class No.	Topic
1	1	1	Introduction to Construction Industry & Management
2	1	2	Objectives & Principles of Organization
3	1	3	Types of Construction Organizations
4	2	4	Roles of Personnel in Construction Organization
5	2	5	Agencies Associated with Construction Work
6	2	6	Role of Consultant & DPR Preparation
7	3	7	Principles Governing Site Layout

8	3	8	Factors Affecting Site Layout
9	3	9	Preparation of Site Layout
10	4	10	Land Acquisition Procedures
11	4	11	Compensation for Land Acquisition
12	4	12	Numerical / Case Study on Site Layout
13	5	13	Planning & Scheduling – Introduction
14	5	14	Identification of Activities & Time Allocation
15	5	15	Methods of Scheduling
16	6	16	Bar Charts – Preparation
17	6	17	Merits & Limitations of Bar Charts
18	6	18	Network Planning – Basic Concepts
19	7	19	Elements of Network & Dummy Activities

20	7	20	Rules & Precautions in Network Drawing
21	7	21	CPM – Activity Time Estimation
22	8	22	Forward Pass & Backward Pass
23	8	23	Critical Path & Project Duration
24	8	24	Floats – Types & Applications
25	9	25	Crashing of Network – Purpose
26	9	26	Normal & Crash Time and Cost
27	9	27	Cost Slope & Optimization
28	10	28	Material Management – Concepts
29	10	29	EOQ – Ordering & Inventory Cost
30	10	30	Store Management & Records
31	11	31	Inventory Control – ABC Analysis
32	11	32	Material Procurement

			through Online Portals
33	12	33	Construction Contracts - Types
34	12	34	Contract Documents
35	12	35	Specifications - General & Special
36	13	36	Contract Management
37	13	37	Arbitration & Settlement Procedures
38	14	38	Safety in Construction Industry
39	14	39	Causes of Accidents in Construction
40	14	40	Preventive & Remedial Safety Measures
41	15	41	Labour Laws Related to Construction
42	15	42	Important Acts - Overview
43	15	43	Revision - Unit I to III

44	15	44	Revision - Unit IV & V
45	15	45	Model Test / Discussion

Meptan
22/12/25

Approved by

Pal
22/12/25