

SYNERGY SCHOOL OF ENGINEERING, DHENKANAL

LESSON PLAN Session 2024-2025

Discipline: Civil Engineering	Semester: 6 th	Name of the Faculty: Kedarnath Behera Email : kedarnathbehera2015@gmail.com
Subject: Construction Management	No. of Days/week: 04	Start Date: 4/2/25 End Date: 17/5/25

Week	Class Day	Theory Topics
1st	1st	Objectives, functions of construction management and construction team
	2nd	Resources for construction management-men, machines, materials, money
	3rd	Importance of construction planning, developing work breakdown structure
	4th	Construction planning stages-pre-tender stage, post-tender stage
2nd	1st	Doubt clearing class
	2nd	Scheduling by bar charts-preparation of bar charts and limitation of bar charts
	3rd	Estimation of time and critical path, application of PERT and CPM
	4th	Doubt clearing class
3rd	1st	Organization types-line and staff, functions
	2nd	Doubt clearing class
	3rd	Line and staff characteristics
	4th	Principles of organization-meaning
4th	1st	Significances of terms-control, authority, responsibility, job, task
	2nd	Leadership-necessity, style and role
	3rd	Doubt clearing class
	4th	Principle of effective supervision
5th	1st	Motivation-classification of motives
	2nd	Different approaches of motives
	3rd	Human relations with subordinates, peer, characteristics of group behaviour
	4th	Workshop done for students group behaviour development
6 th	1st	Handling of grievances, absenteeism, labour welfare
	2nd	Conflicts in organization
	3rd	Morale
	4th	Factors influencing selection, design and layout of temporary facilities
7 th	1st	Doubt clearing class
	2nd	Services at construction site
	3rd	Doubt clearing class
	4th	Principles of storing material at site
8 th	1st	Location of equipment organizing labour at site
	2nd	Concept of Quality control
	3rd	Concept of quality in construction
	4th	Quality standard-during construction after construction
9 th	1st	Destructive and non destructive method
	2nd	Preparing labour schedule, steps for optimum labour output
	3rd	Group discussion quality of construction
	4th	Labour characteristics

16/5/25

S. Behera



10 th	1st	Wages and their payment
	2nd	Labour incentives
	3rd	Relevant labour laws and case studies
	4th	Group discussion among students labour laws and case studies
11 th	1st	Doubt clearing class
	2nd	Programme and progress of work
	3rd	Work study
	4th	Importance of safety
12 th	1st	Group discussion about importance of safety
	2nd	Causes and effects of accidents in construction works
	3rd	Safety measures in worksites for excavation, scaffolding, formwork
	4th	Fabrication, erection, demolition
13 th	1st	Safety legislation-workman's compensation act, contract labour
	2nd	Group discussion about safety legislation
	3rd	Preparing equipment schedule
	4th	Identification of different alternative equipment
14 th	1st	Importance of owning and operating costs in making decisions for purchase of equipment
	2nd	Inspection and testing of equipment
	3rd	Group discussion equipment schedule, inspection and testing of equipment
	4th	Job layout for different construction sites, equipment maintenance and minor repairs
15 th	1st	Classification of stores-storage of stock
	2nd	Issue of materials-indent, in voice, bincard
	3rd	Stores accounting process
	4th	Group discussion on stores accounting process

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29/1/25