

MAHAMAYA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCE,  
NUAPADA

**LESSON PLAN**

Discipline : Civil Engg.	Semester: 6 <sup>TH</sup>	Name of the Teaching Faculty : ER. HIMANEE REATH
Subject : Construction Management & A	No. of Days / per week class allotted : 04	Semester From date : 13.02.2023 TO 23.05.2023 No. of Week : 15
Week	Class Day	Topics
3rd week of february	1st	Introduction: Significance of construction management
	2nd	Main objectives of construction management and overview of the subject
	3rd	Functions of construction management, planning, organising, staffing, directing, controlling and coordinating.
	4th	meaning of each of these with respect to construction job.
	5th	
4th week of february	1st	Classification of construction into light, heavy and industrial construction
	2nd	Stages in construction from conception to completion
	3rd	The construction team: owner, engineer, architect and contractors, their functions and inter-relationship
	4th	Stages of construction planning and Pre-tender stage, Contract stage
	5th	
5th of february and 1st week of march	1st	Scheduling construction works by bar charts - Definition of activity, identification of activities
	2nd	Bar chart technics ,Preparation of bar charts for simple construction work
	3rd	Preparation of schedules for labour, materials, machinery and finances for small works - Limitations of bar charts
	4th	Introduction to network techniques;
	5th	
2nd week of march	1st	PERT
	2nd	CPM, Difference between cpm and pert
	3rd	Scheduling by network techniques
	4th	Organization: importance
	5th	
3rd week of march	1st	Types of organizations
	2nd	Line and staff
	3rd	functional and their characteristics

	4th	4. Site Organization:
	5th	
4th week of March	1st	4.1 Principle of storing
	2nd	stacking materials at site
	3rd	4.2 Location of equipment
	4th	4.3 Preparation of actual job layout for a building
	5th	
5th week of March	1st	4.4 Organizing labour at site
	2nd	5. Construction Labour:
	3rd	5.1 Conditions of construction workers in India.
	4th	wages paid to workers
	5th	
2nd week of April	1st	5.2 Important provisions of the following Acts:
	2nd	- Labour Welfare Fund Act 1936 (as amended)
	3rd	- Payment of Wages Act 1936 (as amended)
	4th	- Minimum Wages Act 1948 (as amended)
	5th	
3rd week of April	1st	Control of Progress: 6.1 Methods of recording progress
	2nd	Analysis of progress
	3rd	Taking corrective actions keeping head office informed
	4th	Cost time optimization for simple jobs - Direct and indirect
	5th	
4th week of April	1st	cost,
	2nd	Variation with time, cost optimization
	3rd	Inspection and Quality Control:
	4th	7.1 Need for inspection and quality control



5th week of April	1st	7.2 Principles of inspection
	2nd	7.3 Stages of inspection and quality control for
	3rd	- Earth work - Masonry - RCC
	4th	- Sanitary and water supply services
	5th	
1st week of MAY	1st	Accidents and Safety in Construction:
	2nd	Accidents - causes and remedies
	3rd	Safety measures for - Excavation work - Drilling and blasting
	4th	- Hot bituminous works- Scaffolding, ladders, form work
	5th	
2nd week of MAY	1st	- Demolitions
	2nd	8.3 Safety campaign and safety devices
	3rd	<b>ACCOUNTS 9. Public Work Accounts: Introduction, technical sanction,</b>
	4th	administrative approval, allotment of funds, reappropriation of funds bill.
	5th	
3rd week of MAY	1st	contractor ledger, measurement book running and final account bills complete. preparation of bill of quantities (BOQ)
	2nd	Completion certificate & report, hand receipt, acquittance roll. Muster Roll labour.
	3rd	Casual labour roll-duties, responsibility of different cadres, budget-stores, returns account of stock, misc.
	4th	responsibility of different cadres, P.W. advances T & P - verification, survey report.
	5th	
4th week of MAY	1st	Road metal material charged direct to works, account - expenditure & revenue head
	2nd	remittance and deposit head
	3rd	cash, precaution in custody of cash book.
	4th	imprest account, temporary advance, treasury challan
	5th	

Signature of faculty member

Signature of HOD