

**MAHAMAYA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCE,
NUAPADA
LESSON PLAN**

Discipline : Civil Engg.	Semester: 6 H	Name of the Teaching Faculty : ER. HIMANEE REATH
Subject : Construction Management & /	No. of Days / per week class allotted : 04	Semester From date : 10.03.2022 TO 10.06.2022 No. of Week : 15
Week	Class Day	Topics
2ND MARCH	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	
3RD MARCH	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	
4TH 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	
5TH MARCH	1st	PERT
	2nd	CPM, Difference between cpm and pert
	3rd	Scheduling by network techniques
	4th	Organization: importance
	5th	
1ST APRIL	1st	Types of organizations
	2nd	Line and staff
	3rd	functional and their characteristics

	4th	4. Site Organization:
	5th	
2ND APRIL	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	
3RD APRIL	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	
4TH 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	
5TH 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	
1ST MAY	1st	cost,
	2nd	Variation with time, cost optimization
	3rd	Inspection and Quality Control:
	4th	7.1 Need for inspection and quality control

	5th	
2ND MAY	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	
3RD 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	
4TH MAY	1st	- Demolitions
	2nd	8.3 Safety campaign and safety devices
	3rd	ACCOUNTS 9. Public Work Accounts: Introduction, technical sanction,
	4th	administrative approval, allotment of funds, reappropriation of funds bill,
	5th	
5TH MAY	1st	contractor ledger, measurement book running and final
	2nd	account bills complete, preparation of bill of quantities (BOQ)
	3rd	Completion certificate & report
	4th	hand receipt, acquittance roll. Muster Roll labour,
	5th	
1ST JUNE	1st	Casual labour roll-duties, responsibility of different cadres, budget-stores, returns account of stock, misc.
	2nd	responsibility of different cadres
	3rd	P.W. advances T & P – verification, survey report,
	4th	Road metal material charged direct to works,
	5th	

2ND JUNE	1st	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	