

LESSON PLAN					
Discipline: Civil Engineering			Name of The Teaching Faculty: C.M.Swarupa Nanda		
Subject: Construction Management (TH2)			Semester From Date:16-01-2024 To Date 26-04-2024		
SEMESTER-6th (SUMMER 2024)			No. Of Weeks:17		4P/WEEK
No. of Days/week class allotted: 04 period per week (Monday , Tuesday, Wednesday & Friday 1 Period each)					TOTAL PERIOD-60
MONTH	WEEK	DATE	DAYS/PERIOD	SYLLABUS TO BE COVERED	NOS. OF PERIODS AVAILABLE
J A N U A R Y				1. Introduction To Construction Management(4P)	4
	3rd	16.01.2024	Tuesday	1.1 Aims and objectives of construction management.	1
		17.01.2024	Wednesday	1.2 Functions of construction management.	1
		19.01.2024	Friday	1.3 The construction team components-owner,engineer,architect,contractor-their functions and interrelationship and jurisdiction.	1
	4th	22.01.2024	Monday	1.4 Resources for construction management-men,machines,materials,money	1
				2. Constructional Planning (7P)	7
		24.01.2024	Wednesday	2.1 Importance of Construction Planning	1
	5th	29.01.2024	Monday	2.2 Developing work breakdown structure for construction work	1
		30.01.2024	Tuesday	2.3 Construction Planning stages-Pre-tender stage, Post-tender stage.	1
		31.01.2024	Wednesday	2.4 Construction scheduling by Bar charts-preparation of Bar Charts for simple construction works.	1
	1st	2.02.2024	Friday	2.5 Preparation of schedules for labour materials,machinery, finance for small works	1
		5.02.2024	Monday	2.6 Limitation of Bar charts.	1
6.02.2024		Tuesday	2.7 Construction scheduling by network techniques-defination of terms ,PERT and CPM techniques, Advantages and disadvantages of two techniques, network analysis, estimation of time and critical path, application of PERT and CPM techniques in sample construction works.	1	

<b>F E B R U A R Y</b>			<b>3. Materials and Stores Management (4P)</b>	<b>4</b>		
		7.02.2024	Wednesday	3.1 Classification of Stores-storage of stock.	1	
		9.02.2024	Friday	3.1 Classification of Stores-storage of stock.	1	
	<b>3rd</b>		12.02.2024	Monday	3.2 Issue of materials-indent.	1
			13.02.2024	Tuesday	3.2 Issue of materials-invoice, bin card.	1
					<b>4. Construction Site Management (5P)</b>	<b>5</b>
			16.02.2024	Friday	4.1 Job Lay out-Objectives, Review plans,	1
	<b>4th</b>		19.02.2024	Monday	4.2 Specifications, Lay out of equipments.	1
			20.02.2024	Tuesday	4.3 Location of equipment, organizing labour at site.	1
			21.02.2023	Wednesday	4.4 Job lay out for different construction sites.	1
			23.02.2024	Friday	4.5 Principle of storing material at site.	1
	<b>5th</b>				<b>5.Construction Organization (6P)</b>	<b>6</b>
			26.02.2024	Monday	5.1 Introduction – Characteristics, Structure, importance.	1
			27.02.2024	Tuesday	5.2 Organization types-line and staff, functions and their characteristics.	1
			28.02.2024	Wednesday	5.3 Principles of organization- meaning and significance of terms- control, authority, responsibility, job & task.	1
	<b>M A R C H</b>	<b>1st</b>	1.03.2024	Friday	5.4 Leadership-necessity, styles of leadership, role of leader.	1
<b>2nd</b>		4.03.2024	Monday	5.5 Human relations-relations with subordinates, peers, Supervisors, characteristics of group behavior, mob psychology, handling of grievances, absenteeism, labour welfare.	1	
		6.03.2024	Wednesday	5.6 Conflicts in organization-genesis of conflicts, types-intrapersonal, interpersonal, intergroup, resolving conflicts.	1	
				<b>6. Construction Labour and Labour Management (6P)</b>	<b>6</b>	
<b>3rd</b>		11.03.2024	Monday	6.1 Preparing Labour schedule	1	
		12.03.2024	Tuesday	6.2 Essential steps for optimum labour output	1	
		13.03.2024	Wednesday	6.3 Labour characteristics	1	

		15.03.2024	Friday	6.4 Wages & their payment	1
	4th	18.03.2024	Monday	6.5 Labour incentives.	1
		19.03.2024	Tuesday	6.6 Motivation- Classification of motives, Different approaches to motivation.	1
				<b>7. Equipment Management (6P)</b>	<b>6</b>
		20.03.2024	Wednes day	7.1 Preparing the equipment schedule	1
		22.03.2024	Friday	7.2 Identification of different alternative equipment	1
	5th	27.03.2024	Wednes day	7.3 Importance of Owning & operating costs.	1
A P R I L	1st	2.04.2024	Tuesday	7.4 Importance of Owning & operating costs in making decisions for hiring & purchase of equipment	1
		3.04.2024	Wednes day	7.5 Inspection and testing of equipment.	1
		5.04.2024	Friday	7.6 Equipment maintenance.	1
				<b>8. Quality Control (5P)</b>	<b>5</b>
	2nd	8.04.2024	Monday	8.1 Concept of quality in construction	1
		9.04.2024	Tuesday	8.2 Quality Standards- during construction.	1
		10.04.2024	Wednes day	8.3 Quality Standards- After construction	1
		12.04.2024	Friday	8.4 Quality Standards- destructive methods.	1
	3rd	15.04.2024	Monday	8.5 Quality Standards- destructive methods.	1
		16.04.2024	Tuesday	8.6-Quality standard-non destructive methods.	1
				<b>9. Monitoring Progress (6P)</b>	<b>6</b>
		19.04.2024	Wednes day	9.1 Programme and progress of work	1
	4th	22.04.2024	Monday	9.2 Programme and progress of work.	1
		23.04.2024	Tuesday	9.3 Work study.	1
		24.04.2024	Wednes day	9.4 Work study.	1
		26.04.2024	Friday	9.5 Analysis and control of physical and financial progress corrective measures.	1
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			<b>10. Safety Management In Construction (5P)</b>	<b>5</b>	
			10.1 Importance of safety	1	

		10.2 causes and effects of accidents in construction works	1
		10.3 Safety measures in worksites for excavation, scaffolding, formwork, fabrication and erection, demolition.	1
		10.4 Development of safety consciousness.	1
		10.5 Safety legislation- Workman's compensation act, contract labour act.	1
		<b>11.Role of Vulnerability Atlas of India in construction projects (6P)</b>	<b>6</b>
		11.1 Introduction to Vulnerability Atlas of India, Concepts of natural hazards and disasters and vulnerability profile of India. Definition of disaster related terms.	1
		11.2 Earthquake hazard and vulnerability, Magnitude and intensity scales of earthquake, seismic zones, earthquake hazard maps, types of structures and damage classification, effects in housing and resistant measures.	1
		11.3 Wind / Cyclone hazard and vulnerability, wind speed and pressures, wind hazard and cyclone occurrence maps, storm surveys and cyclone resistant measures.	1
		11.4 Flood hazard and vulnerability, Flood hazard and Flood prone areas of the country, General protection of habitants and flood resistant construction.	1
		11.5 Landslides, Tsunamis and Thunderstorm hazards and vulnerability, Landslide & Thunderstorm incidence maps, Measures against Tsunami hazards..	1
		11.6 Housing vulnerability risk tables and usage of vulnerability atlas of India, Inclusion of vulnerability atlas in Tender documents.	1