

LESSON PLAN					
Discipline: Civil Engineering			Name of The Teaching Faculty: Bhagabata Jena		
Subject: Construction			Semester From Date:10-03-2022 To Date 10-06-2022		
SEMESTER-6th (SUMMER 2022)			No. Of Weeks:14		4P/WEEK
No. of Days/week class allotted: 04 period per week (Tues,Wed,Thu & Sat 1 Period each)					TOTAL PERIOD-60
MON TH	WEEK	DATE	DAYS/ PERIOD	SYLLABUS TO BE COVERED	NOS. OF PERIODS AVAILABLE
MAR	2ND			<b>1. Introduction To Construction Management(4P)</b>	<b>4</b>
		10.03.2022	THU	1.1 Aims and objectives of construction management.	1
		12.03.2022	SAT	1.2 Functions of construction management.	1
	3RD	15.03.2022	TUE	1.3 The construction team components-owner,engineer,architect,contractor-their functions and interrelationship and jurisdiction.	1
		16.03.2022	WED	1.4 Resources for construction management-men,machines,materials,money	1
				<b>2. Constructional Planning (7P)</b>	<b>7</b>
		17.03.2022	THU	2.1 Importance of Construction Planning	1
	4TH	22.03.2022	TUE	2.2 Developing work breakdown structure for construction work	1
		23.03.2022	WED	2.3 Construction Planning stages-Pre-tender stage, Post-tender stage.	1
		24.03.2022	THU	2.4 Construction scheduling by Bar charts-preparation of Bar Charts for simple construction works.	1
		26.03.2022	SAT	2.5 Preparation of schedules for labour materials,machinery, finance for small works	1
	5TH	29.03.2022	TUE	2.6 Limitation of Bar charts.	1
		30.03.2022	WED	2.7 Construction scheduling by network techniques-definition 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>3. Materials and Stores Management (4P)</b>	<b>4</b>
		31.03.2022	THU	3.1 Classification of Stores-storage of stock.	1
	1ST	02.04.2022	SAT	3.1 Classification of Stores-storage of stock.	1
	2ND	05.04.2022	TUE	3.2 Issue of materials-indent.	1
		06.04.2022	WED	3.2 Issue of materials-invoice, bin card.	1
				<b>4. Construction Site Management (5P)</b>	<b>5</b>
	2ND	07.04.2022	THU	4.1 Job Lay out-Objectives, Review plans,	1
09.04.2022		SAT	4.2 Specifications, Lay out of equipments.	1	
3RD	12.04.2022	TUE	4.3 Location of equipment, organizing labour at site.	1	
	13.04.2022	WED	4.4 Job lay out for different construction sites.	1	
	16.04.2022	SAT	4.5 Principle of storing material at site.	1	
			<b>5.Construction Organization (6P)</b>	<b>6</b>	

APR	4TH	19.04.2022	TUE	5.1 Introduction – Characteristics, Structure, importance.	1	
		20.04.2022	WED	5.2 Organization types-line and staff, functions and their characteristics.	1	
		21.04.2022	THU	5.3 Principles of organization- meaning and significance of terms- control, authority, responsibility, job & task.	1	
		23.04.2022	SAT	5.4 Leadership-necessity, styles of leadership, role of leader.	1	
	5TH	26.04.2022	TUE	5.5 Human relations-relations with subordinates, peers, Supervisors, characteristics of group behavior, mob psychology, handling of grievances, absenteeism, labour welfare.	1	
		27.04.2022	WED	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>	
		28.04.2022	THU	6.1 Preparing Labour schedule	1	
		30.04.2022	SAT	6.2 Essential steps for optimum labour output	1	
		MAY	1ST	04.05.2022	WED	6.3 Labour characteristics
05.05.2022	THU			6.4 Wages & their payment	1	
07.05.2022	SAT			6.5 Labour incentives.	1	
2ND	10.05.2022		TUE	6.6 Motivation- Classification of motives, Different approaches to motivation.	1	
				<b>7. Equipment Management (6P)</b>	<b>6</b>	
	11.05.2022		WED	7.1 Preparing the equipment schedule	1	
	12.05.2022		THU	7.2 Identification of different alternative equipment	1	
3RD	17.05.2022		TUE	7.3 Importance of Owning & operating costs.	1	
	18.05.2022		WED	7.4 Importance of Owning & operating costs in making decisions for hiring & purchase of equipment	1	
	19.05.2022		THU	7.5 Inspection and testing of equipment.	1	
	21.05.2022		SAT	7.6 Equipment maintenance.	1	
				<b>8. Quality Control (5P)</b>	<b>5</b>	
4TH	24.05.2022		TUE	8.1 Concept of quality in construction	1	
	25.05.2022		WED	8.2 Quality Standards- during construction.	1	
	26.05.2022		THU	8.3 Quality Standards- After construction	1	
	28.05.2022		SAT	8.4 Quality Standards- destructive methods.	1	
5TH	31.05.2022		TUE	8.5 Quality Standards- destructive methods.	1	
JUN	1ST		01.06.2022	WED	8.6-Quality standard-non destructive methods.	1
					<b>9. Monitoring Progress (6P)</b>	<b>6</b>
		02.06.2022	THU	9.1 Programme and progress of work	1	
	04.06.2022	SAT	9.2 Programme and progress of work.	1		
	2ND	07.06.2022	TUE	9.3 Work study.	1	
		08.06.2022	WED	9.4 Work study.	1	
		09.06.2022	THU	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>
		<b>EXTRA CLASS</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