LESSON PLAN

BRANCH- CIVIL ENGG SUBJECT- CONSTRUCTION MANAGEMENT FACULTY NAME- SUBHASMITA NAIK SEMESTER-6TH YEAR- 2021-22

SL NO	MODULE/UNIT	CLAUSE NO	TOPIC TO BE COVERED	NO OF CLASSES	REMARKS(IF ANY)
1	1	1.1	Introduction To Construction Management Aims and objectives of construction management	01	,
		1.2	Functions of construction management	01	
		1.3	The construction team components- owner, engineer, architect, contractor-their functions and interrelationship and jurisdiction.	01	
		1.4	Resources for construction management-men, machines, materials, money	01	
2	2	2.1	Constructional Planning Importance of Construction Planning	01	
		2.2	Developing work breakdown structure for construction work		
		2.3	Construction Planning stages-Pre- tender stage, Post-tender stage.	01	
		2.4	Construction scheduling by Bar charts-preparation of Bar Charts for simple construction works	01	
		2.5	Preparation of schedules for labour materials, machinery, finance for small works		
		2.6	Limitation of Bar charts		
		2.7	Construction scheduling by network techniques-definition of terms ,PERT and CPM techniques, advantages and	04	

			disadvantages of two techniques, network analysis, estimation of time and critical path, application of PERT and CPM techniques in sample construction works.	
3	3	3.1	Materials and Stores Management Classification of Stores-storage of stock.	01
		3.2	Issue of materials-indent , invoice, bin card	01
4	4	4.1	Construction Site Management Job Lay out-Objectives, Review plans, specifications, Lay out of equipments.	02
		4.2	Location of equipment, organizing labour at site.	01
		4.3	Job lay out for different construction sites.	01
		4.4	Principle of storing material at site.	01
5	5	5.1	Construction Organization: Introduction – Characteristics, Structure, importance	01
		5.2	Organization types-line and staff, functions and their characteristics	01
		5.3	Principles of organization- meaning and significance of terms- control, authority, responsibility, job & task.	01
		5.4	Leadership-necessity, styles of leadership, role of leader	01
		5.5	Human relations-relations with subordinates, peers, Supervisors, characteristics of group behavior, mob psychology, handling of grievances, absenteeism, labour welfare.	01
		5.6	Conflicts in organization-genesis of conflicts, types-intrapersonal,	01

			interpersonal, intergroup, resolving conflicts.		
6	6	6.1	Construction Labour and Labour Management:	01	
		6.2	Preparing Labour schedule Essential steps for optimum labour	01	
		6.3	Labour characteristics	01	
		6.4	Wages & their payment	01	
		6.5	Labour incentives	01	
		6.6	Motivation- Classification of motives, different approaches to motivation	01	
7	7	7.1	Equipment Management Preparing the equipment schedule	01	
		7.2	Identification of different alternative equipment	01	
		7.3	Importance of Owning & operating costs in making decisions for hiring & purchase of equipment	01	
		7.4	Inspection and testing of equipment	01	
		7.5	Equipment maintenance	01	
8	8	8.1	Quality Control Concept of quality in construction	01	
		8.2	Quality Standards- during construction, after construction, destructive & non destructive methods	02	
9	9	9.1	Monitoring Progress Programme and progress of work	02	
		9.2	Work study	02	
		9.3	Analysis and control of physical and financial progress corrective measures. 10	02	
10	10	10.1	Safety Management In Construction Importance of safety	01	

		10.2	causes and effects of accidents in	01	
		10.2	construction works	OI	
		10.3	Safety measures in worksites for	01	
		10.5	-	OI	
			excavation, scaffolding, formwork,		
		10.4	fabrication and erection, demolition	01	
			Development of safety consciousness		
		10.5	Safety legislation- Workman's	01	
			compensation act, contract labour act.		
11	11	11.1	Role of Vulnerability Atlas of India in	01	
			construction projects		
			Introduction to Vulnerability Atlas of		
			India, Concepts of natural hazards and		
			disasters and vulnerability profile of		
			India. Definition of disaster related		
			terms		
		11.2	Earthquake hazard and vulnerability,	01	
			Magnitude and intensity scales of		
			earthquake, seismic zones, earthquake		
			hazard maps, types of structures		
			and damage classification, effects in		
			housing and resistant measures		
		11.3	Wind / Cyclone hazard and	01	
			vulnerability, wind speed and pressures,		
			wind hazard and cyclone		
			occurrence maps, storm surveys and		
			cyclone resistant measures		
		11.4	Flood hazard and vulnerability, Flood	01	
			hazard and Flood prone areas of the		
			country, General protection of		
			habitants and flood resistant		
			construction		
		11.5	Landslides, Tsunamis and Thunderstorm	01	
			hazards and vulnerability,		
			Landslide & Thunderstorm incidence		
			maps, Measures against Tsunami		
			hazards.		
		11.6	Housing vulnerability risk tables and	01	
			usage of vulnerability atlas of India,	- -	
			Inclusion of vulnerability atlas in Tender		
			documents.		
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