LESSON PLAN

BRANCH- CIVIL ENGG SUBJECT- CONSTRUCTION MANAGEMENT FACULTY NAME- SUBHASMITA NAIK SEMESTER-6TH YEAR- 2020-21

SL NO	MODULE/UNIT	CLAUSE NO	TOPIC TO BE COVERED	NO OF	REMARKS(IF
1	1	1.1		CLASSES 01	ANY)
_	1	1.1	Introduction To Construction		
			Management		
			Aims and objectives of construction		
			management		
		1.2		01	
			Functions of construction		
			management		
		1.3		01	
			The construction team components-		
			owner, engineer, architect,		
			contractor-their functions and		
			interrelationship and jurisdiction.	0.4	
		1.4	Dana and factor and a still a	01	
			Resources for construction		
			management-men, machines, materials, money		
2	2	2.1	materials, money	01	
2	2	2.1	Constructional Planning		
			Importance of Construction Planning		
		2.2	portunes er eenstraetien riammig	-	
			Developing work breakdown		
			structure for construction work		
		2.3		01	
			Construction Planning stages-Pre-		
			tender stage, Post-tender stage.		
		2.4		01	
			Construction scheduling by Bar		
			charts-preparation of Bar Charts for		
		2.5	simple construction works	-	
		2.5	Drangration of cohedular for labour		
			Preparation of schedules for labour materials, machinery, finance for		
			small works		
		2.6	SHIGH WOLKS	-	
			Limitation of Bar charts		
		2.7		04	
			Construction scheduling by network		
			techniques-definition of terms ,PERT		
			and CPM techniques, advantages and		
			and CPIVI techniques, advantages and		

			disadvantages of two techniques, network analysis, estimation of time and critical path, application of PERT and CPM techniques in sample	
3	3	3.1	construction works. Materials and Stores Management Classification of Stores-storage of	01
			stock.	
		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	01	
			Management:		
		6.2	Preparing Labour schedule	01	
		6.2	Essential steps for optimum labour output	01	
		6.3	Labour characteristics	01	
		6.4	Education characteristics	01	
			Wages & their payment		
		6.5	5 , ,	01	
			Labour incentives		
		6.6		01	
			Motivation- Classification of motives,		
			different approaches to motivation		
7	7	7.1		01	
			Equipment Management		
		7.2	Preparing the equipment schedule	01	
		7.2	Identification of different alternative	01	
			equipment		
		7.3	- Squipment	01	
			Importance of Owning & operating		
			costs in making decisions for hiring &		
			purchase of equipment		
		7.4		01	
		7.5	Inspection and testing of equipment	0.1	
		7.5	Favigation and project and and	01	
8	8	8.1	Equipment maintenance	01	
0	0	0.1	Quality Control	01	
			Concept of quality in construction		
		8.2		02	
			Quality Standards- during		
			construction, after construction,		
			destructive & non destructive		
			methods		
9	9	9.1	Monitoring Progress	02	
		9.2	Programme and progress of work	02	
		9.2	Work study Analysis and control of physical and	02	
		5.5	financial progress corrective measures.	02 	
10	10	10.1	Safety Management In Construction	01	
			Importance of safety		

		10.2	causes and effects of accidents in	01	
		10.2	construction works	01	
		10.3	Safety measures in worksites for	01	
		10.5	excavation, scaffolding, formwork,	01	
			fabrication and erection, demolition		
		10.4	Development of safety consciousness	01	
		10.4		01	
		10.5	Safety legislation- Workman's	01	
11	11	11 1	compensation act, contract labour act.	01	
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		
		44.2	terms	04	
		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.		