JHARSUGUDA ENGINEERING SCHOOL,					
	JHARSUGUDA Department of Civil Engineering				
			(3rd Year) Summer 2		
			i i	022	
	Theory No: 2 Subject: Construction Management				
		Subject:	Construction manage	ement	
Name Of The Faculty:			Sri Swapnashish Patel		
S1 No	Week No	No. Of classes	Topics to be covered	Remarks	
1		1	Introduction To Construction Management 1.1 Aims and objectives of construction management		
2		1	1.2 Functions of construction management		
3	W1	1	1.3 The construction team componentsowner, engineer, architect , contractor-their functions and interrelationship and jurisdiction.		
4		1	1.4 Resources for construction management-men,machines,materials,money	¥	
5		1	Constructional Planning 2.1 Importance of Construction Planning		
6		1	2.2 Developing work breakdown structure for construction work		
7	W2	1	2.3 Construction Planning stages-Pre- tender stage, Post-tender stage		
8		1	2.3 Construction Planning stages-Pre- tender stage, Post-tender stage		
9		1	2.4 Construction scheduling by Bar charts-preparation of Bar Charts for simple construction works.		
10		1	2.5 Preparation of schedules for labour materials, machinery, finance for small works		
11		1	2.6 Limitation of Bar charts		

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	W3		2.7.600000000000000000000000000000000000	
			2.7 Construction scheduling by	
			network techniques-defination of	
			terms ,PERT and CPM techniques,	
12		1	advantages and disadvantages of	
			two techniques, network analysis,	
			estimation of time and critical path,	
			application of PERT and CPM	
			techniques in sample construction	
			works.	
13			Materials and Stores Management	
13		1	3.1 Classification of Stores-storage of	
	-		stock	
14		1	3.2 Issue of materials-indent ,	
-	W4		invoice, bin card	
	W4			
15		1	Construction Site Management 4.1	
			Job Lay out-Objectives, Review plans,	
-	-{		specifications, Lay out of equipments	
16		1	4.2 Location of equipment,	
-	+		organizing labour at site.	
17		1	4.3 Job lay out for different	
	Ⅎ	1	construction sites.	
18		1	4.4 Principle of storing material at	
	-		Site Construction Occasion 5.1	
19	W5		Construction Organization: 5.1	
1 1 9		1	Introduction – Characteristics, Structure, importance.	
			Structure, importance.	
20		1	5.2 Organization types-line and staff,	
20		1	functions and their characteristics	
			5.3 Principles of organization-	
			meaning and significance of terms-	
21		1	control, authority, responsibility, job	
			& task.	
			5.4 Leadership-necessity, styles of	
22	2	1	leadership, role of leader	
		1	5.5 Human relations-relations with	
	W6		subordinates, peers, Supervisors,	
23	3	1	characteristics of group behavior,	
	27		mob psychology, handling of	
			grievances, absenteeism, labour	
	E		welfare.	
			5.6 Conflicts in organization-genesis	
2	4	1	of conflicts, types-intrapersonal,	
2		1 1	interpersonal, intergroup, resolving	
M			conflicts.	

				5.6 Conflicts in organization-genesis	
0.5				of conflicts, types-intrapersonal,	
25			1	interpersonal, intergroup, resolving	
				conflicts.	
		W7		Construction Labour and Labour	
26		W (1	Management: 6.1 Preparing Labour	
				schedule	
27			_	6.2 Essential steps for optimum	
	_		1	labour output	
28	5		1	6.3 Labour characteristics	
29			1	6.4 Wages & their payment	
30			1	6.5 Labour incentives	
	\neg			6.6 Motivation- Classification of	
3:	1	WS	1	motives, different approaches to	
				motivation	
3	2		1	Equipment Management 7.1	1
				Preparing the equipment schedule	
3	3			7.2 Identification of different	
	_		1	alternative equipment	
	- 1			7.2 Immentance of Owning &	
3	4	****	1	7.3 Importance of Owning & operating costs in making decisions	
		W9		for hiring & purchase of equipment	
-	\dashv			7.4 Inspection and testing of	
3	35		1	equipment	
-	36		1	7.5 Equipment maintenance	
-	-		 	Quality Control	
1	37		1	8.1 Concept of quality in	
1	,			construction	
				8.2 Quality Standards- during	
	•		1	construction, after construction,	
	38	W10	1	destructive & non destructive	
				methods.	
				24.5	
	39		1	Monitoring Progress 9.1 Programme	
-		1.36		and progress of work	
-	40		1	9.2 Work study	
				9.3 Analysis and control of physical and financial progress corrective	1
	41	i e	1	measures	
-	_	-		measures	
	42		1	Safety Management In Construction	
	72		1	10.1 Importance of safety	
-		W11	1	10.2 causes and effects of accidents	
	43		1	in construction works	

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44		1	10.3 Safety measures in worksites for excavation, scaffolding, formwork, fabrication and erection, demolition. 10.4 Development of safety	
45		1	consciousness	
46		1	10.5 Safety legislation- Workman's compensation act, contract labour act	
47	W12	1	Role of Vulnerability Atlas of India in construction projects 11.1 Introduction to Vulnerability Atlas of India, Concepts of natural hazards and disasters and vulnerability profile of India. Definition of disaster related terms.	
48	1	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.	
49		1	11.3 Wind / Cyclone hazard and vulnerability, wind speed and pressures, wind hazard and cyclone occurrence maps, storm surveys and cyclone resistant measures.	
50	W13	1	11.4 Flood hazard and vulnerability, Flood hazard and Flood prone areas of the country, General protection of habitants and flood resistant construction.	
51	,,,,,,	1	11.4 Flood hazard and vulnerability, Flood hazard and Flood prone areas of the country, General protection of habitants and flood resistant construction.	
52		1	11.5 Landslides, Tsunamis and Thunderstorm hazards and vulnerability, Landslide & Thunderstorm incidence maps, Measures against Tsunami hazards.	

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54	W14	1	11.6 Housing vulnerability risk tables and usage of vulnerability atlas of India, Inclusion of vulnerability atlas in Tender documents.	
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56		1	PYQ	
57		1	PYQ	
58	W15	1	PYQ	
59] "15	1	Revision	
60		1	Revision	
	Total 60			

Signature of Faculty

Signature of H.O.D