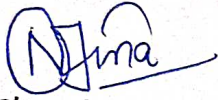


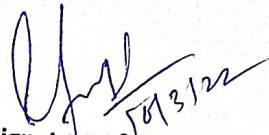
JHARSUGUDA ENGINEERING SCHOOL, JHARSUGUDA			
DEPARTMENT OF CIVIL ENGINEERING			
LESSON PLAN			
Semester:6th		Subject: Construction Management	
Session:2021-2022 (Summer-2022)		Theory	
Branch: Civil Engineering		Name of the Faculty: Niranjana Jena	
Period	Chapter	Topic to be covered	Remarks
1	1	Aims and objectives of construction management	
2		Functions of construction management	
3		The construction team componentsowner,engineer,architect,contractor-their functions and interrelationship and jurisdiction	
4		Resources for construction management-men,machines,materials,money	
5	2	Importance of Construction Planning, Developing work breakdown structure for construction work	
6		Construction Planning stages-Pre-tender stage, Post-tender stage	
7		Construction scheduling by Bar charts-preparation of Bar Charts for simple construction works	
8		Preparation of schedules for labour materials,machinery, finance for small works, Limitation of Bar charts	
9		Construction scheduling by network techniques-defination of terms ,PERT and CPM techniques	
10		advantages and disadvantages of two techniques, network analysis, estimation of time and critical path	
11		application of PERT and CPM techniques in sample construction works.	
12	3	Classification of Stores	
13		storage of stock	
14		Issue of materials	
15		Indent , invoice, bin card	
16	4	Job Lay out-Objectives, Review plans	
17		specifications, Lay out of equipments	
18		Location of equipment, organizing labour at site	
19		Job lay out for different construction sites	
20		Principle of storing material at site	
21	5	Introduction – Characteristics, Structure, importance	
22		Organization types-line and staff, functions and their characteristics	
23		Principles of organization- meaning and significance of terms-control, authority, responsibility, job & task	
24		Leadership-necessity, styles of leadership, role of leader	
25		Human relations-relations with subordinates, peers, Supervisors, characteristics of group behavior, mob psychology, handling of grievances, absenteeism, labour welfare	
26		Conflicts in organization-genesis of conflicts, types-intrapersonal, interpersonal, intergroup, resolving conflicts	

27	6	Preparing Labour schedule	
28		Essential steps for optimum labour output	
29		Labour characteristics	
30		Wages & their payment	
31		Labour incentives	
32		Motivation- Classification of motives, different approaches to motivation	
33	7	Preparing the equipment schedule	
34		Identification of different alternative equipment	
35		Importance of Owning	
36		Operating costs in making decisions for hiring & purchase of equipment	
37		Inspection and testing of equipment	
38		Equipment maintenance	
39	8	Concept of quality in construction	
40		Quality Standards- during construction	
41		Quality Standards- after construction	
42		Destructive Methods	
43		Non destructive methods	
44	9	Programme and progress of work	
45		Programme and progress of work	
46		Work study	
47		Analysis and control of physical progress	
48		Analysis and control of financial progress corrective measures	
49	10	Analysis and control of financial progress corrective measures	
50		Importance of safety	
51	10	Causes and effects of accidents in construction works	
52		Safety measures in worksites for excavation, scaffolding, formwork, fabrication and erection, demolition	
53		Development of safety consciousness	
54		Safety legislation- Workman's compensation act, contract labour act	
55		11	Introduction to Vulnerability Atlas of India, Concepts of natural hazards and disasters and vulnerability profile of India. Definition of disaster related terms
56	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		
57	Wind / Cyclone hazard and vulnerability, wind speed and pressures, wind hazard and cyclone occurrence maps, storm surveys and cyclone resistant measures		
58	Flood hazard and vulnerability, Flood hazard and Flood prone areas of the country, General protection of habitants and flood resistant construction		

59	11	Landslides, Tsunamis and Thunderstorm hazards and vulnerability, Landslide & Thunderstorm incidence maps, Measures against Tsunami hazards	
60		Housing vulnerability risk tables and usage of vulnerability atlas of India, Inclusion of vulnerability atlas in Tender documents	



Signature of Faculty Member
Date: 10/03/2022



Counter Signature of H.O.D