LESSON PLAN

Theory-01

Discipline: Semester: Civil Engg. ,UGMIT Rayagada 6^{TH}

Name of the Teaching Faculty: Subject:

CONSTRUCTION MANAGEMENT (CET-601)

No of Days/week class allotted:05Session:2019-20

Week	Class Day	Theory/Practical Topics	Remarks
1	1-5	1.0 Introduction To Construction Management	
		1.1 Aims and objectives of construction management.	
		1.2 Functions of construction management.	■ 10 × 4
		1.3 The construction team components-	20 C
		owner, engineer, architect, contractor-their functions and	
	17 K	interrelationship and jurisdiction.	
	5 8	1.4 Resources for construction management-	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
		men,machines,materials,money	
	2 1	2.0 Constructional Planning	
		2.1 Importance of Construction Planning	
		2.2 Developing work breakdown structure for construction work	
	5	2.3 Construction Planning stages-Pre-tender stage, Post-tender	
		stage.	
	4 2	2.4 Construction scheduling by Bar charts-preparation of Bar	
		Charts for simple construction works.	
9 2		2.5 Preparation of schedules for labour materials, machinery,	× *
		finance for small works	2 ×
	ø	2.6 Limitation of Bar charts	8
2	6-10	2.7 Construction scheduling by network techniques-defination of	
	0.10	terms, PERT and CPM techniques, advantages and disadvantages	
		of two techniques, network analysis, estimation of time and	
	2	critical path, application of PERT and CPM techniques in sample	
	2	construction works.	а с ¹⁶ с е с ¹⁷ а
		3.0 Materials and Stores Management	(F)
		3.1 Classification of Stores-storage of stock.	а ал а ^н
	в. 2	3.2 Issue of materials-indent, invoice, bin card	
		3.2 issue of materials-indent, involce, oin card	
3	11-15	3.3. Stores Accounting Procedure	
	11-15	3.4 Inspection of stores, T&P account's register, procedure of	
	2 °	write off	
		4.0 Construction Site Management	
		4.1 Job Lay out-Objectives, Review plans, specifications, Lay	н ⁶
		out of equipments.	

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	16-20		
8		4.2 Factors influencing selection, design and layout of temporary	
		facilities and services at construction site.	
1		4.3 Principles of storing material at site.	
	21-25	4.3 Principles of storing material at site.	
		4.4 Location of equipment, organizing labour at site.	
9 g	ii.		2 1
	26-30	4.5 Job lay out for different construction sites.	
		5.0 Construction Organisation:	
		5.1 Introduction – Characteristics, Structure, importance.	
		5.2 Organization types-line and staff, functions and their	
		characteristics	
		5.3 Principles of organization- meaning and significance of	
		terms- control, authority, responsibility, job & task.	2
	31-35	5.4 Leadership-necessity, styles of leadership, role of leader	
		5.5 Principles of effective supervision	n n
	~	5.6 Human relations-relations with subordinates, peers,	16 ¹⁵
	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Supervisors, characteristics of group behavior, mob psychology,	.5
		handling of grievances, absenteeism, labour welfare.	
	5	5.7 Conflicts in organization-genesis of conflicts, types-	· · · ·
		intrapersonal, interpersonal, intergroup, resolving conflicts.	
		6.0 Construction Labour and Labour Management:	
3 12 13		6.1 Preparing Labour schedule	•
5	36-40	6.2 Essential steps for optimum labour output	
	2	6.3 Labour characteristics	
	n	6.4 Wages & their payment	
		6.5 Labour incentives	
		6.6 Motivation- Classification of motives, different approaches to	
		motivation.	
)	41-45	6.7 Morale	*
	-	6.8 Relevant labour laws and case studies related to labour	
	* <u>1</u> s	disputes	
	5	7 Equipment Management	
	* 	7.1 Preparing the equipment schedule	
	in and a set	7.2 Identification of different alternative equipment	
	2		
10	46-50	7.3 Importance of Owning & operating costs in making	
		decisions for hiring & purchase of equipment	
		7.4 Inspection and testing of equipment	
		7.5 Equipment maintenance and minor repairs	
11	51-55	8.0 Quality Control	
		8.1 Concept of quality in construction	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
12	56-60	8.2 Quality Standards- during construction, after construction,	
13	61-65	8.2 destructive & non destructive methods.	
15	01 05	9.0 Monitoring Progress	
		9.1 Programme and progress of work	5 8 8 6 10 8

ŧ	66-70	9.2 Work study	
Ź		9.3 Analysis and control of physical and financial progress	
		corrective measures.	
	-	10.0 Safety Management In Construction	
	N	10.1 Importance of safety	
15	71-75	10.2 causes and effects of accidents in construction works	
		10.3 Safety measures in worksites for excavation, scaffolding,	
		formwork, fabrication and errection, demolition.	1
		10.4 Development of safety consciousness	
		10.5 Safety legislation- Workman's compensation act, contract	
		labour act.	n a a a a a a a a a a a a a a a a a a a

Signature of Faculty:

Signature of HOD: