

<b>PROGRAMME : CIVIL ENGINEERING</b> <b>COURSE NAME : CM</b> <b>COURSE CODE : TH-2</b> <b>SEMESTER : 6TH</b> <b>PERIODS/WEEK: 4</b> <b>TOTAL PERIODS: 60</b>	<b>NAME OF THE FACULTY: SUSHREE SULIPI TANDAKAR</b> <b>SESSION : 2020-2021</b> <b>DATE : 05-0402021 to 30-06-2021</b>
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WEEK	CLASS	TOPICS
1	1	CHAPTER-1: Aims and objectives of construction management.
	2	Functions of construction management.
	3	The construction team components
	4	Resources for construction management-men,machines,materials,money
2	1	CHAPTER-2: Constructional Planning: Importance of Construction Planning,Developing work breakdown structure for construction work
	2	Construction Planning stages-Pre-tender stage, Post-tender stage.
	3	Construction scheduling by Bar charts-preparation of Bar Charts for simple construction works.
	4	Preparation of schedules for labour materials,machinery, finance for small works, Limitation of Bar charts
3	1	PERT and CPM
	2	PERT and CPM
	3	PERT and CPM
	4	CHAPTER-3: Materials and Stores Management:Classification of Stores-storage of stock.
4	1	Issue of materials-indent , invoice, bin card
	2	Issue of materials-indent , invoice, bin card
	3	Issue of materials-indent , invoice, bin card
	4	CHAPTER-4: Construction Site Management: Job Lay out-Objectives, Review plans, specifications
5	1	Lay out of equipments
	2	Location of equipment, organizing labour at site
	3	Job lay out for different construction sites.
	4	Principle of storing material at site.
6	1	CHAPTER-5: Construction Organization: Introduction – Characteristics, Structure, importance.
	2	Organization types-line and staff, functions and their characteristics
	3	Principles of organization
	4	Leadership-necessity, styles of leadership, role of leader
7	1	Human relations
	2	Conflicts in organization
	3	CHAPTER-6: Construction Labour and Labour Management: Preparing Labour schedule,Essential steps for optimum labour output
	4	Labour characteristics
8	1	Wages & their payment
	2	Labour incentives
	3	Motivation- Classification of motives, different approaches to motivation.
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	1	CHAPTER-7: Equipment Management : Preparing the equipment schedule,

<b>9</b>		Identification of different alternative equipment
	<b>2</b>	Importance of Owning & operating costs in making decisions for hiring & purchase of equipment
	<b>3</b>	Importance of Owning & operating costs in making decisions for hiring & purchase of equipment
	<b>4</b>	Inspection and testing of equipment
<b>10</b>	<b>1</b>	Inspection and testing of equipment
	<b>2</b>	Equipment maintenance
	<b>3</b>	CHAPTER-8: Quality Control:Concept of quality in construction
	<b>4</b>	Quality Standards
<b>11</b>	<b>1</b>	Quality Standards
	<b>2</b>	Quality Standards
	<b>3</b>	destructive & non destructive methods
	<b>4</b>	CHAPTER-9: Monitoring Progress :Programme and progress of work
<b>12</b>	<b>1</b>	Work study
	<b>2</b>	Analysis and control of physical and financial progress corrective measures
	<b>3</b>	Analysis and control of physical and financial progress corrective measures
	<b>4</b>	Analysis and control of physical and financial progress corrective
<b>13</b>	<b>1</b>	Analysis and control of physical and financial progress corrective measures
	<b>2</b>	CHAPTER-10: Safety Management In Construction: Importance of safety , causes and effects of accidents in construction works
	<b>3</b>	Safety measures in worksites for excavation, scaffolding, formwork, fabrication and erection, demolition.
	<b>4</b>	Development of safety consciousness
<b>14</b>	<b>1</b>	Safety legislation- Workman's compensation act, contract labour act
	<b>2</b>	Safety legislation- Workman's compensation act, contract labour act
	<b>3</b>	CHAPTER-11: Introduction to Vulnerability Atlas of India, Concepts of natural hazards and disasters and vulnerability profile of India. Definition of disaster related
	<b>4</b>	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
<b>15</b>	<b>1</b>	Wind / Cyclone hazard and vulnerability, wind speed and pressures, wind hazard and cyclone occurrence maps, storm surveys and cyclone resistant measures.
	<b>2</b>	Flood hazard and vulnerability, Flood hazard and Flood prone areas of the country, General protection of habitants and flood resistant construction.
	<b>3</b>	Landslides, Tsunamis and Thunderstorm hazards and vulnerability, Landslide & Thunderstorm incidence maps, Measures against Tsunami
	<b>4</b>	Housing vulnerability risk tables and usage of vulnerability atlas of India, Inclusion of vulnerability atlas in Tender documents.