Discipline:	CIVIL ENGINEERING SUBHENDU NAIK			
Faculty :				
Semester :	3RD			
Duration :	15 WEEKS	15 WEEKS (15 <sup>th</sup> September 2022 to 22 <sup>nd</sup> December 2022)		
Work Load :	Lecture: 4 Lectures per week (50 minutes per Class)			
Week	Week Day	Theory		
1 <sup>st</sup>	1 <sup>st</sup>	Aims and objectives of construction management		
	2 <sup>nd</sup>	Functions of construction management		
	3 <sup>rd</sup>	The construction team components-owner, engineer, architect, contractor-their functions and interrelationship and jurisdiction		
	4 <sup>th</sup>	Resources for construction management-men,machines,materials,money		
2 <sup>nd</sup>	5 <sup>th</sup>	Importance of Construction Planning		
	6 <sup>th</sup>	Developing work breakdown structure for construction work		
	7 <sup>th</sup> 8 <sup>th</sup>	Construction Planning stages-Pre-tender stage, Post-tender stage.		
	8	Construction scheduling by Bar charts-preparation of Bar Charts for simple construction works.		
	9 <sup>th</sup>	Preparation of schedules for labour materials, machinery, finance for small works		
	10 <sup>th</sup>	Limitation of Bar charts Construction scheduling by network techniques-defination of terms ,		
	11 <sup>th</sup>	PERT and CPM techniques, advantages and disadvantages of two techniques, network analysis,		
	12 <sup>th</sup>	estimation of time and critical path		
4th	13 <sup>th</sup>	application of PERT and CPM techniques in sample construction works.		
	14 <sup>th</sup>	Classification of Stores-storage of stock		
	$15^{\mathrm{th}}$	Issue of materials-indent , invoice, bin card		
	16 <sup>th</sup>	Job Lay out-Objectives, Review plans		
5 <sup>th</sup>	$17^{\mathrm{th}}$	specifications, Lay out of equipments		
	18 <sup>th</sup>	Location of equipment, organizing labour at site		
	19 <sup>th</sup>	Job lay out for different construction sites.		
	20 <sup>th</sup>	Principle of storing material at site.		
6 <sup>th</sup>	21st	Introduction – Characteristics, Structure, importance.		
	22 <sup>nd</sup>	Organization types-line and staff, functions and their characteristics		
	23 <sup>rd</sup>	Principles of organization- meaning and significance of terms- control, authority, responsibility, job & task.		
	24 <sup>th</sup>	Leadership-necessity, styles of leadership, role of leader		
7 <sup>th</sup>	25 <sup>th</sup>	Human relations-relations with subordinates, peers, Supervisors		
	26 <sup>th</sup> 27 <sup>th</sup>	characteristics of group behavior, mob psychology, handling of grievances, absenteeism, labour welfare.		
	28 <sup>th</sup>	Conflicts in organization-genesis of conflicts, types-intrapersonal, interpersonal,		
8 <sup>th</sup>	29 <sup>th</sup>	intergroup, resolving conflicts.  Preparing Labour schedule		
	30 <sup>th</sup>	Essential steps for optimum labour output		
	30 <sup>th</sup>	Labour characteristics		
	31st 32th	Wages & their payment		
9th	33 <sup>th</sup>	Labour incentives		
	34 <sup>th</sup>	Motivation- Classification of motives, different approaches to motivation		
	35 <sup>th</sup>	Preparing the equipment schedule		
	36 <sup>th</sup>	Identification of different alternative equipment		
10th	35 <sup>th</sup>	Importance of Owning & operating costs in making decisions for hiring & purchase of		
	38th	equipment Inspection and testing of equipment		

	39 <sup>th</sup>	Equipment maintenance
	40 <sup>th</sup>	Concept of quality in construction Quality Standards- during construction
11th	41 <sup>th</sup>	Quality Standards -after construction
	42 <sup>th</sup>	Quality Standards-destructive & non destructive methods.
	43 <sup>th</sup>	Programme and progress of work
	44 <sup>th</sup>	Work study
12th	45 <sup>th</sup>	Analysis and control of physical progress corrective measures
	46 <sup>th</sup>	Importance of Safety Management In Construction
	47 <sup>th</sup>	causes and effects of accidents in construction works
	48 <sup>th</sup>	Safety measures in worksites for excavation, scaffolding formwork
13th	49 <sup>th</sup>	Safety measures in worksites for fabrication and erection, demolition.
	50 <sup>th</sup>	Development of safety consciousness
	51 <sup>th</sup>	Safety legislation- Workman's compensation act, contract labour act.
	52 <sup>th</sup>	Introduction to Vulnerability Atlas of India, Concepts of natural hazards
14th	53 th	Introduction to disasters and vulnerability profile of India. Definition of disaster related terms.
	54 th	Earthquake hazard and vulnerability, Magnitude and intensity scales of earthquake, seismic zones
	55 th	earthquake hazard maps, types of structures and damage classification, effects in housing and resistant measures
	56 th	Flood hazard and vulnerability, Flood hazard and Flood prone areas of the country, General protection of habitants and flood resistant construction
15th	57 th	Landslides, Tsunamis and Thunderstorm hazards and vulnerability, Landslide
	58 th	Thunderstorm incidence maps, Measures against Tsunami hazards.
	59 th	Housing vulnerability risk tables and usage of vulnerability atlas of India,
	60 th	Inclusion of vulnerability atlas in Tender documents.