



**GANDHI SCHOOL OF ENGINEERING**  
**BHABANDHA, BERHAMPUR**

BRANCH- CIVIL ENGINEERING

SEMESTER- 6th

SUBJECT- Th 2. CONSTRUCTION MANAGEMENT

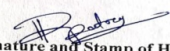
Name of the Faculty- Er.ALOKA RANJAN SAHU

		Topic to be taken			Actual topic taken			
Sl. No	Topic/Module	No. of period	Details of the topics	Date	Topic No.	Topic Name	Date	Remarks
1	Introduction To Construction Management	4	1.1 Aims and objectives of construction management. 1.2 Functions of construction management. 1.3 The construction team componentsowner,engineer,architect,contract or-their functions and interrelationship and jurisdiction. 1.4 Resources for construction management-men,machines,materials,money	16.01.2024-19.01.2024	1.1 1.2 1.3 1.4	Aims and objectives of construction management. Functions of construction management. The construction team componentsowner,engineer,architect,contractor-their functions and interrelationship and jurisdiction. Resources for construction management-men,machines,materials,money	18.01.2024 19.01.2024  22.01.2024	
2	Constructional Planning	7	2.1 Importance of Construction Planning 2.2 Developing work breakdown structure for construction work 2.3 Construction Planning stages-Pre-tender stage, Post-tender stage. 2.4 Construction scheduling by Bar charts-preparation of Bar Charts for simple construction works. 2.5 Preparation of schedules for labour materials,machinery, finance for small works 2.6 Limitation of Bar charts 2.7 Construction scheduling by network techniques.	20.01.2024-02.02.2024	2.1 2.2 2.3 2.4 2.5 2.6 2.7	Importance of Construction Planning Developing work breakdown structure for construction work Construction Planning stages-Pre-tender stage, Post-tender stage. Construction scheduling by Bar charts-preparation of Bar Charts for simple construction works. Preparation of schedules for labour materials,machinery, finance for small works Limitation of Bar charts Construction scheduling by network techniques.	24.01.2024 31.01.2024 01.02.2024 03.02.2024  25.01.2024	

3	Materials and Stores Management	4	3.1 Classification of Stores-storage of stock. 3.2 Issue of materials-indent , invoice, bin card	03.02.2024-07.02.2024	3.1 3.2	Classification of Stores-storage of stock. Issue of materials-indent , invoice, bin card	31.01.2024 01.02.2024 02.02.2024	
4	Construction Site Management	5	4.1 Job Lay out-Objectives, Review plans, specifications, Lay out of equipments. 4.2 Location of equipment, organizing labour at site. 4.3 Job lay out for different construction sites. 4.4 Principle of storing material at site.	08.02.2024-13.02.2024	4.1 4.2 4.3 4.4	Job Lay out-Objectives, Review plans, specifications, Lay out of equipments. Location of equipment, organizing labour at site. Job lay out for different construction sites. Principle of storing material at site.	05.02.2024 07.02.2024 08.02.2024 09.02.2024 12.02.2024	
5	Construction Organisation	6	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. 5.4 Leadership-necessity, styles of leadership, role of leader 5.5 Human relations-relations with subordinates, peers etc. 5.6 Conflicts in organization.	15.02.2024-11.02.2024	5.1 5.2 5.3 5.4 5.5 5.6	Introduction – Characteristics, Structure, importance. Organization types-line and staff, functions and their characteristics Principles of organization- meaning and significance of terms- control, authority, responsibility, job & task. Leadership-necessity, styles of leadership, role of leader Human relations-relations with subordinates, peers etc. Conflicts in organization.	28.02.2024 29.02.2024 01.03.2024 04.03.2024 06.03.2024 07.03.2024	
6	Construction Labour and Labour Management	6	6.1 Preparing Labour schedule 6.2 Essential steps for optimum labour output 6.3 Labour characteristics 6.4 Wages & their payment 6.5 Labour incentives 6.6 Motivation- Classification of motives, different approaches to motivation	22.02.2024-28.02.2024	6.1 6.2 6.3 6.4 6.5 6.6	Preparing Labour schedule Essential steps for optimum labour output Labour characteristics Wages & their payment Labour incentives Motivation- Classification of motives, different approaches to motivation	15.02.2024 16.02.2024 19.02.2024 21.02.2024 22.02.2024 23.02.2024	

7	Equipment Management	6	7.1 Preparing the equipment schedule 7.2 Identification of different alternative equipment 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	29.02.2024-07.03.2024	7.1 7.2 7.3 7.4	Preparing the equipment schedule Identification of different alternative equipment Importance of Owning & operating costs in making decisions for hiring & purchase of equipment Inspection and testing of equipment 7.5 Equipment maintenance	26.02.2024 08.03.2024 13.03.2024 14.03.2024 15.03.2024 18.03.2024	
8	Quality Control	5	8.1 Concept of quality in construction 8.2 Quality Standards- during construction, after construction, destructive & non destructive methods.	09.03.2024-14.03.2024	8.1 8.2	Concept of quality in construction Quality Standards- during construction, after construction, destructive & non destructive methods.	20.03.2024 21.03.2024 22.03.2024 27.03.2024 28.03.2024	
9	Monitoring Progress	6	9.1 Programme and progress of work 9.2 Work study 9.3 Analysis and control of physical and financial progress corrective measures.	15.03.2024-21.03.2024	9.1 9.2 9.3	Programme and progress of work Work study Analysis and control of physical and financial progress corrective measures.	03.04.2024 04.04.2024 05.04.2024 08.04.2024 10.04.2024	
10	Safety Management In Construction	5	10.1 Importance of safety 10.2 causes and effects of accidents in construction works 10.3 Safety measures in worksites for excavation, scaffolding, formwork, fabrication and erection, demolition. 10.4 Development of safety consciousness 10.5 Safety legislation- Workman's compensation act, contract labour act.	22.03.2024-30.03.2024	10.1 10.2 10.3 10.4 10.5	Importance of safety causes and effects of accidents in construction works Safety measures in worksites for excavation, scaffolding, formwork, fabrication and erection, demolition. Development of safety consciousness Safety legislation- Workman's compensation act, contract labour act.	12.04.2024 15.04.2024 18.04.2024 19.04.2024	

11	Role of Vulnerability Atlas of India in construction projects	6	<p>11.1 Introduction to Vulnerability Atlas of India, Concepts of natural hazards and disasters and vulnerability profile of India. Definition of disaster related terms.</p> <p>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.</p> <p>11.3 Wind / Cyclone hazard and vulnerability, wind speed and pressures, wind hazard and cyclone occurrence maps, storm surveys and cyclone resistant measures.</p> <p>11.4 Flood hazard and vulnerability, Flood hazard and Flood prone areas of the country, General protection of habitants and flood resistant construction.</p> <p>11.5 Landslides, Tsunamis and Thunderstorm hazards and vulnerability, Landslide &amp; Thunderstorm incidence maps, Measures against Tsunami hazards.</p> <p>11.6 Housing vulnerability risk tables and usage of vulnerability atlas of India, Inclusion of vulnerability atlas in Tender documents.</p>	02.04.2024-08.04.2024	<p>11.1 Introduction to Vulnerability Atlas of India, Concepts of natural hazards and disasters and vulnerability profile of India. Definition of disaster related terms.</p> <p>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.</p> <p>11.3 Wind / Cyclone hazard and vulnerability, wind speed and pressures, wind hazard and cyclone occurrence maps, storm surveys and cyclone resistant measures.</p> <p>11.4 Flood hazard and vulnerability, Flood hazard and Flood prone areas of the country, General protection of habitants and flood resistant construction.</p> <p>11.5 Landslides, Tsunamis and Thunderstorm hazards and vulnerability, Landslide &amp; Thunderstorm incidence maps, Measures against Tsunami hazards.</p> <p>11.6 Housing vulnerability risk tables and usage of vulnerability atlas of India, Inclusion of vulnerability atlas in Tender documents.</p>	<p>22.04.2024</p> <p>24.04.2024</p> <p>25.04.2024</p> <p>26.04.2024</p>	
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 Signature and Stamp of HOD:  
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