

PROGRAMME : CIVIL ENGINEERING
 COURSE NAME : CM
 COURSE CODE : TH-2
 SEMESTER : 6TH
 PERIODS/WEEK: 4
 TOTAL PERIODS: 60

NAME OF THE FACULTY: MANASI
 PRADHAN
 SESSION: SUMMER

| 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. |
| | 4 | Motivation- Classification of motives, different approaches to motivation. |
| | 1 | CHAPTER-7: Equipment Management : Preparing the equipment schedule, |

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

Manasi Pradhan
Signature of faculty


Signature of HOD