

## FORMAT OF LESSON PLAN

Name of faculty      Mr. Mahender

Discipline              Civil engineering

Semester                6th

Subject                  CM&A

| Week | Lecture Day                  | Topic  |
|------|------------------------------|--|
| 1st  | 1st 2nd 3rd<br>4th<br>5th    | Introduction<br>Significance of construction management Main objectives of construction management Functions of construction management, planning, organising, staffing directing, controlling and coordinating, meaning of each of these with respect to construction job.<br><u>Classification of construction into light, heavy and industrial construction</u> |
| 2nd  | 1st 2nd 3rd<br>4th<br>5th    | Stages in construction from conception to completion<br>The construction team: owner, engineer, architect and contractors, their functions and inter-relationship<br>Importance of construction planning Pre-tender stage<br>Contract stage Definition of activity, identification of activities   |
| 3rd  | 1st<br>2nd                   | Preparation of bar charts for simple construction work<br>Preparation of schedules for labour, materials   |
| 4th  | 1st 2nd 3rd<br>4th           | machinery and finances for small works Limitations of bar charts Introduction to network techniques; PERT and CPM<br>difference between PERT and CPM terminology<br><u>Types of organizations: Line, line and staff,</u>   |
| 5th  | 1st 2nd 3rd<br>4th<br>5th    | functional and their characteristics<br>Site Organization Principle of storing and stacking materials at site Principle of storing and stacking materials at site<br>Preparation of actual job layout for a building<br>Organizing labour at site  |
| 6th  | 1st 2nd 3rd<br>4th           | Conditions of construction workers in India, wages paid to workers<br>Important provisions of the following Acts: Labour Welfare Fund Act 1936 (as amended) Payment of Wages Act 1936 ,Minimum Wages Act 1948<br><u>Methods of recording progress Analysis of progress</u>   |
| 7th  | 1st 2nd 3rd<br>4th<br>5th    | Taking corrective actions keeping head office informed Cost time optimization for simple jobs Direct and indirect cost, variation with time, cost optimization<br>Need for inspection and quality control Principles of inspection<br>Stages of inspection and quality control for Earth work Masonry Sanitary and water supply services and rcc work              |
| 8th  | 1st 2nd 3rd<br>4th           | Accidents – causes and remedies<br>Safety measures for Excavation work, Drilling and blasting Hot bituminous works, Scaffolding, ladders, form work ladders, form work   |
| 9th  | 1st<br>2nd 3rd<br>4th<br>5th | Demolitions, Safety campaign and safety devices<br>Introduction, technical sanction, administrative approval, allotment of funds Re- appropriation of funds bill, contractor ledger, measurement book running<br>final account bills complete, preparation of bill of quantities (BOQ),<br>completion certificate & report, hand receipt, acquittance roll.        |
| 10th | 1st 2nd 3rd<br>4th<br>5th    | Muster Roll labour, casual labour roll-duties and responsibility of different cadres, budget-stores, returns, account of stock, misc. P.W. advances T & P<br>survey report, road metal material charged direct to works account - expenditure & revenue head<br>remittance and deposit head  |
| 11th | 1st 2nd 3rd<br>4th           | definition of cash, precaution in custody of cash book, imprest account, temporary advance, treasury challan<br>preparation of final bill<br>Revision of chapter 1   |
| 12th | 1st 2nd 3rd<br>4th           | chapter 2<br>chapter 3 do chapter 4  |
| 13th | 1st 2nd 3rd<br>4th<br>5th    | do chapter 5 do chapter 6<br>do  |
| 14th | 1st 2nd 3rd<br>4th<br>5th    | class test (chapter 1) class test (chapter 2) class test (chapter 3) class test (chapter 4)<br>class test ( chapter 5&6)   |
| 15th | 1st 2nd 3rd<br>4th<br>5th    | revision of chapter 7 chapter 8<br>chapter 9<br>class test (chapter 7) class test (chapter 8)  |