



LESSON PLAN

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| Program Name | Civil Engineering |
| Subject Name | Construction Management and Accounts |
| Subject Code | CE-1760 |
| Semester | 6th |
| Subject Teacher Name | Sonika Thakur |

Evaluation Scheme

| Sr. No | Subject Name | Study scheme (Hrs/Week) | | Marks in Evaluation Scheme | | | | | |
|-----------------|------------------------------------|---|----|----------------------------|----|-------|---------------------|----|-------|
| | | | | Internal Assessment | | | External Assessment | | |
| | | Th | Pr | Th | Pr | Total | Th | Pr | Total |
| 1. | Construction Management & Accounts | 4 | - | 50 | - | 50 | 100 | - | 100 |
| Reference Books | | (1) Shrinath, LS, "PERT and CPM-Principles and Applications", New Delhi, East West Press (2) Gahlot PS; Dhir, BM; "Construction Planning and Management", Wiley Eastern Limited, New Delhi | | | | | | | |

Course Outcomes (COs)

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| CO - 1 | Understand the planning and management of construction work |
| CO - 2 | Understand and Solve the problems pertaining to site organization ,construction labour, work progress and quality of work |
| CO - 3 | Apply safety measures at construction projects |
| CO - 4 | Understand the PWD accounts and stores |

Teaching Plan

| | Name of Topic | Proposed Date | Actual Date | Remarks |
|-----------------|---|---------------|-------------|---------|
| UNIT-I | 1.1 Significance of construction management, | 29/01/2024 | | |
| | 1.2 Main objectives of construction management and overview of the subject | 30/01/2024 | | |
| | 1.3 Functions of construction management, planning, organising, staffing, directing, controlling and coordinating, meaning of each of these with respect to construction job. | 02/02/2024 | | |
| | 1.4 Classification of construction into light, heavy and industrial construction, 1.5 Stages in construction from conception to completion | 03/02/2024 | | |
| UNIT-II | 2.1 Importance of construction planning, 2.2 Stages of construction planning - Pre-tender stage - Contract stage | 05/02/2024 | | |
| | Construction contracts and specifications 2.4 Scheduling construction works by bar charts | 06/02/2024 | | |
| | Limitations of bar charts, Definition of activity, identification of activities | 09/02/2024 | | |
| | 2.5 Scheduling by network techniques - Introduction to net work techniques; PERT and CPM | 12/02/2024 | | |
| | Differences between PERT and CPM terminology | 13/02/2024 | | |
| | 2.6 CPM Network including critical activities, slack, floats & critical path | 16/02/2024 | | |
| UNIT-III | 3.1 Types of organizations: Line organization | 17/02/2024 | | |
| | Characteristics of Line Organization, Line and staff organization | 19/02/2024 | | |

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| | Characteristics of Line and staff organization | 20/02/2024 | | |
| | Functional organization | 23/02/2024 | | |
| | Characteristics of Functional organization | 26/02/2024 | | |
| UNIT-IV | | | | |
| Site Organization | 4.1 Principle of storing and stacking materials at site | 27/02/2024 | | |
| | 4.2 Location of equipment | 01/03/2024 | | |
| | 4.3 Organizing labour at site | 02/03/2024 | | |
| | 4.4 Site layout of construction project | 04/03/2024 | | |
| UNIT-V | | | | |
| Construction Labour | 5.1 Conditions of construction workers in India, wages paid to workers | 05/03/2024 | | |
| | 5.2 Important provisions of Labour Welfare Fund Act 1936 (as amended) | 11/03/2024 | | |
| | 5.2 Important provisions of Payment of Wages Act 1936 (as amended) | 12/03/2024 | | |
| | 5.2 Important provisions of Minimum Wages Act 1948 (as amended) | 15/03/2024 | | |
| UNIT-VI | | | | |
| Control of Progress | 6.1 Methods of recording progress | 16/03/2024 | | |
| | Class Test-I(As per HPTSB schedule) | 18/03/2024 | | |
| | 6.2 Analysis of progress | 19/03/2024 | | |
| | 6.2 Analysis of progress | 22/03/2024 | | |
| | 6.3 Taking corrective actions keeping head office informed | 23/03/2024 | | |
| | 6.4 Arbitration and settlement. | 26/03/2024 | | |
| UNIT-VII | | | | |
| Inspection and Quality Control | 7.1 Need for inspection and quality control | 30/03/2024 | | |
| | 7.2 Principles of inspection | 01/04/2024 | | |
| | 7.3 Stages of inspection and quality control for – Earthwork | 02/04/2024 | | |
| | 7.3 Stages of inspection and quality control for – Masonry | 05/04/2024 | | |
| | 7.3 Stages of inspection and quality control for RCC | 06/04/2024 | | |
| UNIT- VIII | | | | |
| Accidents and Safety in Construction | 8.1 Accidents–causes and remedies | 08/04/2024 | | |
| | 8.2 Safety measures for Excavation work and Hot bituminous works | 09/04/2024 | | |
| | 8.2 Safety measures for Scaffolding, form work | 12/04/2024 | | |
| | 8.3 Safety campaign and safety devices | 16/04/2024 | | |
| | Class Test-II(As per HPTSB schedule) | 19/04/2024 | | |
| UNIT- IX | | | | |
| Public Work Accounts | 9.1 Introduction 9.2 Necessities of accounts 9.3 Public works department system of account | 20/04/2024 | | |
| | 9.4 Classification of transaction and head of account | 22/04/2024 | | |
| | 9.5 Classification of works | | | |
| | 9.6 Condition to be fulfilled before a work can taken in hand 9.7 work order | 23/04/2024 | | |
| | 9.8 bill-first and final bill, running account bill, account of secured advances, running account bill "c", running account bill "D" | 26/04/2024 | | |
| | final bill, Hand receipt, refund of security money, cash, debit and credit | 27/04/2024 | | |

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| 9.9 cashbook-procedure for maintain the cash book, cash found surplus or deficient, subsidiary cash Book 9.10 contract ledger | 29/04/2024 | | |
| 9.11 completion report and completion certificate 9.12 Imprest 9.13 temporary advance or temporary Imprest | 30/04/2024 | | |
| 9.14 Cheques 9.15 Remittance transfer receipts 9.16 Advise of transfer debit/credit 9.17 Receipt of money | 03/5/2024 | | |
| 9.18 Treasury challan 9.19 Treasury remittance book 9.20 Work abstract 9.21 Register of works | 04/5/2024 | | |
| 9.22 Transfer entries 9.23 Appropriation and re-appropriation 9.24 Deposit works 9.25 Stores 9.25.1 Necessity of stores | 06/5/2024 | | |
| 9.25.2 Unstamped receipt 9.25.3 Accounting procedure for store 9.25.4 Suspense head 9.25.5 Suspense sub-head 9.25.6 Reserve limit of stock 9.25.7 Indent | 07/5/2024 | | |
| 9.25.8 Stock taking and shortage and surplus 9.25.9 Classification of store 9.26 Road metal 9.27 materials charged to work | 13/5/2024 | | |
| 9.28 issue of material to contractor 9.29 Issue of machinery and equipment | 14/5/2024 | | |
| 9.30 Bincard 9.31 stock register 9.32 write off | 20/5/2024 | | |
| 9.33 Handing over taking over charge on transfer | 21/5/2024 | | |
| 9.34 voucher 9.35 Establishments in P.W.D. | 24/5/2024 | | |
| 9.36 Cash payment to labourers 9.37 Tools and plant | 25/5/2024 | | |

Assignments

| Assignment No | Contents of Syllabus Covered | Proposed Date | Actual Date | Remarks |
|---------------|--------------------------------|---------------|-------------|---------|
| A-1 | Unit-1, Unit-2, Unit-3, Unit-4 | 04/03/2024 | | |
| A-2 | Unit-5, Unit-6, Unit-7 | 06/04/2024 | | |

House Test/Class Test

| Name of test | Syllabus for Tests | Proposed Date | Actual Date | Remarks |
|---------------|--------------------------------|--------------------------------|-------------|---------|
| Class Test -1 | Unit-1, Unit-2, Unit-3, Unit-4 | As per HPTSB Academic Schedule | | |
| Class Test -2 | Unit-5, Unit-6, Unit-7, Unit-8 | | | |
| House Test | Unit-1 to Unit-9 (Half) | | | |

(Signature of Teacher)

(Signature of HOD)

Approved

Principal

Govt. Polytechnic for Women
Rehan Distt. Kangra (H.P.)