SEMESTER VIII

MD4902 MANAGEMENT CONCEPTS & PRACTICES

Introduction to management- principles- Elements - Financial management- Technology management- Plant layout
Inventory management- Project Management - PERT - CPM- Applications
Significance of HRM, HR planning - job evaluation - recruitment & selection
Placement and induction - training - performance appraisal - compensation - industrial relations

References

1. Prasad, L.M., Principles & Practice of Management, Sultan Chand & Sons, 1992.

CE402 PRESTRESSED CONCRETE STRUCTURES

Principles of prestressing - Materials of prestressing - Systems of prestressing - Loss of prestress - Deflection of Prestressed Concrete members.
Slabs - Pre-tensioned and Post-tensioned beams - Design for flexure, bond and shear - IS code provisions - Ultimate flexural and shear strength of prestressed concrete sections - Design of end anchorage zones using IS code method.
Composite beams - Analysis and design.Partial prestressing - non-prestressed reinforcements.
Analysis of Continuous beams - Cable layout - Linear transformation - Concordant cables.
Design of compression members and tension members.Circular prestressing - Water tanks - Pipes - Analysis and design - IS Codal provisions.

References

1. Lin. T.Y., Burns, N.H., Design of Prestressed Concrete Structures, John Wiley & Sons, 1982.
2. RajaGopalan N. Prestressed Concrete, Narosa Publishing House, New Delhi, 2002.