

Construction Planning & Management

Code :—CE603

Contact : 3L

Credits : 3

1. **Planning:** General consideration, Definition of aspect, prospect, roominess, grouping, circulation privacy, acclusion [2]
2. **Regulation and Bye laws :** Bye Laws in respect of side space, Back and front space, Covered areas, height of building etc., Lavatory blocks , ventilation, Requirements for stairs, lifts in public assembly building, offices [4]
3. **Fire Protection:** Fire fighting arrangements in public assembly buildings, planning , offices, auditorium [2]
4. **Construction plants & Equipment:** Plants & equipment for earth moving, road constructions, excavators, dozers, scrapers, spreaders, rollers, their uses.
Plants & Equipment for concrete construction: Batching plants, Ready Mix Concrete, concrete mixers, Vibrators etc., quality control [8]
5. **Planning & Scheduling of constructions Projects:**
Planning by CPM & PERT, Preparation of network, Determination of slacks or floats. Critical activities. Critical path, project duration .expected mean time , probability of completion of project, Estimation of critical path, problems. [8]
6. **Management:** Professional practice, Defination, Rights and responsibilities of owner, engineer, Contractors, types of contract [4]
7. **Departmental Procedures:** Administration, Technical and financial sanction, operation of PWD, Tenders and its notification, EMD and SD, Acceptance of tenders, Arbitration [8]

*** Serial 1, 2, 3 are as per National Building Code**

Text & References:

1. Construction Planning, Equipments and methods Puerifoy, R.L. McGraw Hill.
2. Management in construction industry P.P.Dharwadkar Oxford and IBH Publishing company New Delhi
3. Construction Management, Critical path Methods in Construction, J.O.Brien Wiley Interscience
4. PERT and CPM L.S. Srinath
5. Project planning and control with PERT and CPM' B.C.Punmia and K.K.Kandelwal
6. Construction equipments and its management, S.C.Sharma
7. National Building code, BIS