



1. Introduction.
2. Terminology.
3. Business Model. - Parties, Types of contract
4. Design Build Contracts. – Brief, Advantages
5. Agency CM.
6. CM at Risk.
7. Units & scales. - Scales – SI & British units, Conversions.
8. Method of Planning & Scheduling.  
Conventional Methods – Gantt/Bar chart.  
– Milestone chart.  
– Flow chart.  
Network Methods - Critical Path Method - CPM.  
- Program me Evolution & Review Technique - PERT.
9. Advantages of PERT/CPM.
10. Elements of Network  
Network.  
Activity.  
Event.  
Dummy Activity.
11. Rules to be followed for drawing Network
12. Development of Network
13. To Estimate Project Duration  
Estimation of activity duration time ( $t_e$ )  
– Single time estimate.  
– Third time estimate.  
– Estimation of earliest expected event time (TE)  
– Estimation of latest allowable event time (TL)  
– Calculation of event slack
14. Identification of the Critical Path



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- 15. Compressing the Critical path
  - 16. Start & Finish Time of activity
    - Earliest activity start time ( E.S.)
    - Earliest activity finish time ( E.F.)
    - Latest activity finish time ( L.F.)
    - Latest activity start time ( L.S.)
  - 17. Activity Slack or Float
    - Total activity float.
    - Free float.
    - Independent float.
  - 18. Analysis & Scheduling of Network