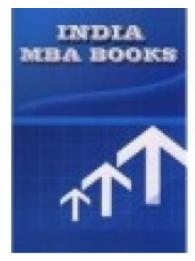
PROJECT MANAGEMENT FOR INFRASTRUCTURE



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UNIT I PROJECT AND ITS PROCESS

Define project and process -Boundaries of project -Objectives and functions of project

management -Characteristics and types of projects -Organization structure / styles -Roles of

project management group - Project management office and its role - Project knowledge area -

Project integration- Process group interaction -project flow - Project life cycle- Influencing factors. - Case study.

UNIT II PROJECT TIME MANAGEMENT

Project scope management - Work break down structure - Activity/Task - Events - Case study -

Project planning tools - Rolling wave planning - Gantt charts, Milestone chart, Program progress

chart- Creating milestone plan - Project network-Fulkerson's rules - A-O-A and A-O-N networks -

Analyze project time- Critical path method (deterministic approach) - Activity oriented network

analysis- 80-20 rule- Case study - Type of time estimates & square network diagram - Project

updating and monitoring- Case study - Estimate time-Program Evaluation & Review Technique

(Probabilistic approach)- Event oriented network analysis-Optimistic, pessimistic and most likely

time - Degree of variability in average time - Probabilistic estimate - % utilization of resources.

UNIT III RESOURCE MANAGEMENT

Types of Resource- Time, Men, Material, Machinery,

Money, Space - Balancing of resource -Resource smoothing technique- Time constraint - Resource leveling technique- Resource constraint- Case study.

UNIT IV RESOURCE OPTIMIZATION

Types of cost – Direct, indirect and total cost - Variation of cost with time - Schedule compression techniques- Crashing, fast tracking & Re-estimation-Crash timeand crash cost - Optimize project cost for time and resource - CPM cost model - Life cycle assessment - Impacts and economical assessment - Life cycle cost- Maintenance and operation - Life cycle forecasting – Concept and applications.

UNIT V EMERGING TRENDS IN PROJECT MANAGEMENT

AGILE Project management and Project Management using latest tools- Case study

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