

MBA437: IT PROJECT MANAGEMENT

Teaching Scheme	Examination Scheme
Lectures: 4 hrs./Week Tutorials: 1 hrs./Week Credits: 4	Class Test -12Marks Teachers Assessment - 6Marks Attendance – 12 Marks End Semester Exam – 70 marks


Course Objectives:

- To make them understand the concepts of Project Management for planning to execution of projects.
- To make them understand the feasibility analysis in Project Management and network analysis tools for cost and time estimation.
- To enable them to comprehend the fundamentals of Contract Administration, Costing and Budgeting.
- Make them capable to analyse, apply and appreciate contemporary project management tools and methodologies in Indian context.

Hours: 40

UNIT I (10 Hours): Fundamentals of IT Project Management, Need Identification, Vision and Scope document, Project Management Cycle, PM Objectives, Management Spectrum, Project Planning, Planning Objectives, Project Plan, Types of project plan, Structure of a Project Management Plan, IT project estimation. **Project Organization:** Project Elements, Work Breakdown Structure (WBS), Types of WBS, Functions, Activities and Tasks, Project Life Cycle and Product Life Cycle, Ways to Organize Personnel.

UNIT II (15 Hours): Project schedule, Scheduling Objectives, Building the project schedule, Scheduling terminology and techniques, Network Diagrams: PERT, CPM, Bar Charts: Milestone Charts, Gantt Charts. **Project Monitoring and Control:** Dimensions of Project Monitoring & Control, Earned Value Analysis, Earned Value Indicators: Budgeted Cost for Work Scheduled (BCWS), Cost Variance (CV), Schedule Variance (SV), Cost Performance Index (CPI), Schedule Performance Index (SPI), Interpretation of Earned Value Indicators, Error Tracking,


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Software Reviews, Types of Review: Inspections, Deskchecks, Walkthroughs, Code Reviews, Pair Programming

UNIT III (10 Hours): Concept of Software Quality, Software Quality Attributes, Software Quality Metrics and Indicators, SEICMM, SQA Activities, Formal SQA Approaches: Proof of correctness, Statistical quality assurance, Clean room process. Testing: Testing Objectives, Testing Principles, Test Plans, Test Cases, Types of Testing, Levels of Testing, Test Strategies, Program Correctness, Program Verification & validation, Testing Automation & Testing Tools.

UNIT IV (10 Hours): Software Configuration Management: Software Configuration Items and tasks, Baselines, Plan for Change, Change Control, Change Requests Management, Version Control. **Risk Management:** Risks and risk types, Risk Breakdown Structure (RBS), Risk Management Process: Risk identification, Risk analysis, Risk planning, Risk monitoring, Cost Benefit Analysis, Project Management Tools: CASE Tools, Planning and Scheduling Tools.

Suggested Readings:


1. Software Project Management, M. Cotterell, Tata McGraw-Hill Publication
2. Software Project Management, Royce, Pearson Education
3. Software Project Management, Kieron Conway, Dreamtech Press
4. Software Project Management, S. A. Kelkar, PHI Publication


COURSE OUTCOMES : After completion of this course, the student will be able to

COURSE OUTCOMES DESCRIPTION	
CO1	Ability to Understand project characteristics and various stages of a project.
CO2	Ability to Understand the conceptual clarity about project organization and feasibility analyses Market, Technical, Financial and Economic.
CO3	Ability to analyze the learning and understand techniques for Project planning, scheduling and Execution Control
CO4	Ability to apply the risk management plan and analyse the role of stakeholders.
CO5	Able to understand the contract management, Project Procurement, Service level Agreements and productivity
CO6	Able to understand the How Subcontract Administration and Control are practiced in the Industry

Employable Skills	Measuring Tools
Ability to identify and apply the knowledge of subject practically in real life situations	Exercise Workshop Quiz Classroom Discussions


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