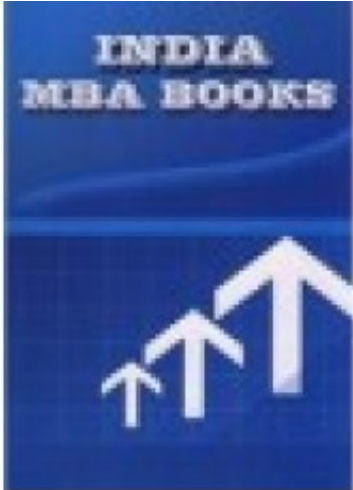


# SOFTWARE PROJECT MANAGEMENT AND QUALITY



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**SOFTWARE PROJECT MANAGEMENT AND QUALITY**

## **Description**

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## **UNIT I PROJECT MANAGEMENT OVERVIEW 8**

**What is Project and Project Management, Various phase of Project Management, Project**

**Stakeholders, Project Management Organisation (PMO); Roles and Responsibilities of Project**

**Manager. Brief introduction to various process models - Waterfall, RAD, V, Spiral, Incremental,**

**Prototyping, Agile– SCRUM, Extreme Programming (XP) and Kanban Project Initiation - Project**

**Charter; Statement of Work (SoW)**

## **UNIT II PROJECT PLANNING 10**

**Project Planning Activities- Project Scope, Work Breakdown Structures (WBS), Software estimation**

**methodologies - COCOMO Model and Function Point**

**Project Scheduling Techniques – Program Evaluation and Review Technique (PERT), Gantt Chart and Critical Path Method (CPM)**

### **UNIT III PROJECT TRACKING 10**

**Monitoring and Control, Project Status Reporting; Project Metrics; Earned Value Analysis (EVA); Project Communication Plan & Techniques; Steps for Process Improvement.**

**Risk Management: Concepts of Risks and Risk Management; Risk Management Activities; Effective Risk Management; Risk Categories; Aids for Risk Identification; Potential Risk Treatments; Risk Components and Drivers; Risk Prioritization.**

### **UNIT IV PROJECT CLOSURE 8**

**Project Closure Analysis, Lesson Learnt Software Quality Assurance-Software Quality Assurance Activities; Software Qualities; Software Quality Standards – ISO Standards for Software Organization, Capability Maturity Model (CMM), Comparison between ISO 9001 & SEI CMM, Other Standards.**

### **UNIT V AGILE PROJECT MANAGEMENT WITH SCRUM 9**

**Agile Manifesto and Agile Principles  
Agile Scrum - Purpose, Values, Scrum Framework, Scrum Roles – Product Owner, Scrum Master & Team, Scrum Events – Sprint Planning, Daily Scrum/Stand-up Meeting, Sprint Review, Sprint Retrospective, Scrum Artefacts – Product Backlog, Sprint**

# **Backlog, Increment and Definition of Done (DoD), Agile estimation – Story Point**

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