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BA5023 SOFTWARE PROJECT MANAGEMENT AND QUALITY

DETAILED SYLLABUS

UNIT I PROJECT MANAGEMENT OVERVIEW

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

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

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

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

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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REFERENCES

- 1. Bob Hughes and Mike Cotterell, Software Project Management, Tata McGraw Hill, 5th Edition.
- 2. Jalote, "Software Project Management in Practice", Pearson Education.
- 3. Ramesh, Gopalaswamy, "Managing Global Projects", Tata McGraw Hill.
- 4. Ken Schwaber, Agile Project Management with Scrum, Microsoft Press.
- 5. Mike Cohn, Agile Estimating & Planning, Pearson.
- 6. Royce, "Software Project Management", Pearson Education, 1999.

OBJECTIVES

- To understand the various project management phases Initiation, Planning, Tracking and Closure.
- To study various project estimation methodologies, process models and risk management.
- To understand quality assurance in software development.