

**ELECTIVE – V - 4. SOFTWARE PROJECT MANAGEMENT**

**Unit I**

**SOFTWARE MANAGEMENT RENAISSANCE:** Conventional Software Management – Evolution of Software Economics – Improving Software Economics – The Old Way and the New.

**Unit II**

**A SOFTWARE MANAGEMENT PROCESS FRAMEWORK:** Live-Cycle Phases – Artifacts of the Process – Model-Based Software Architectures – Work Flows of the Process – Check Points of the Process.

**Unit III**

**SOFTWARE MANAGEMENT DISCIPLINES – I:** Iterative Process Planning – Project Organizations and Responsibilities – Process Automation.

**Unit IV**

**SOFTWARE MANAGEMENT DISCIPLINES – II:** Project Control and Process Instrumentation – Tailoring the Process

**Unit V**

**RISK MANAGEMENT:** Introduction – Risk – Categories of risk – A framework for dealing with risk – Risk Identification – Risk assessment – Risk Planning – Risk Management – Evaluating risks to schedule – Applying the PERT Technique – Monte Carlo Simulation – Critical Chain Concepts

**Text Book:**

1. "Software Project Management" - Walker Royce - Pearson Education
2. "Software Project Management" - Bob Hughes & Mike Cotterell - Fourth Edition - 2008 - ISBN: 978 - 0 - 07 - 061985-2