

OBJECTIVES:

- To understand the various software processes.
- To learn format process models.
- To gain knowledge of the overall project activities
- To analyses the various issues in each phase of project management and people management.

UNIT I BASIC CONCEPTS 9

Product, Process and Project – Definition, Software Process Maturity ,Software maturity Framework, Principles of Software Process Change, Software Process Assessment, The Initial Process, The Repeatable Process, The Defined Process, The Managed Process, The Optimizing Process, Product Life Cycle-Project Life Cycle Models.

UNIT II FORMAT PROCESS MODELS AND THEIR USE 9

Definition and format model for a process, The ISO 9001 and CMM models and their relevance to project Management-other emerging models like People CMM.

UNIT III UMBRELLA ACTIVITIES IN PROJECTS 9

Software Project Management -Formal Technical Reviews-Software Quality Assurance-Software Configuration Management-Re-usability Management-Risk analysis and Management -Measurement and Metrics-Document Preparation and Production

UNIT IV IN STREAM ACTIVITIES IN PROJECTS 9

Project Initiation - Project Planning- feasibility study estimation- resource allocation- execution and tracking,-root cause analysis- Project Wind-up-Concept of process/project database.

UNITV ENGINEERING AND PEOPLE ISSUES IN PROJECT MANAGEMENT 9

Phases (Requirements, Design, Development, Testing, maintenance, deployment) - engineering activities and management issues in each phase-Difficulties in people management - Role of Project manager ,Special considerations in project management for India and geographic distribution issues.

OUTCOMES:

- Get the basic knowledge about various processes.
- Emphasize the use of format process models.
- Knowledge gained in usage and application of umbrella activities for project management
- Execute the project development in a systematic manner using tools and techniques
- Issues are analysed in various phases of project management and people management

TOTAL: 45 PERIODS**REFERENCES:**

1. Ramesh, " Gopalaswamy: Managing Global Projects ", Tata McGraw Hill, 2001.
2. Humphrey, Watts: "Managing the software process ", Addison Wesley, 1986.
3. Pressman, Roger: "Software Engineering ", A Practitioner's approach, McGraw Hill, 1997.
4. DeMarco and Lister: "Peopleware ".
5. Wheelwright and Clark: "Revolutionising product development ", The Free Press, 1993.
Watts Humphrey, "Managing the Software Process ", Pearson Education, New Delhi, 2000
6. PankajJalote, "Software Project Management in practice", Pearson Education, New Delhi, 2002.