## Diploma, Anna Univ UG & PG Courses

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## MG6088 SOFTWARE PROJECT MANAGEMENT

**DETAILED SYLLABUS** 

#### **OBJECTIVES:**

- To outline the need for Software Project Management
- To highlight different techniques for software cost estimation and activity planning.

# **UNIT I PROJECT EVALUATION AND PROJECT PLANNING**

Importance of Software Project Management – Activities Methodologies – Categorization of Software Projects – Setting objectives – Management Principles – Management Control – Project portfolio Management – Cost-benefit evaluation technology – Risk evaluation – Strategic program Management – Stepwise Project Planning.

# **UNIT II PROJECT LIFE CYCLE AND EFFORT ESTIMATION**

Software process and Process Models – Choice of Process models - mental delivery – Rapid Application development – Agile methods – Extreme Programming – SCRUM – Managing interactive processes – Basics of Software estimation – Effort and Cost estimation techniques – COSMIC Full function points - COCOMO II A Parametric Productivity Model - Staffing Pattern.

# **UNIT III ACTIVITY PLANNING AND RISK MANAGEMENT**

Objectives of Activity planning – Project schedules – Activities – Sequencing and scheduling – Network Planning models – Forward Pass & Backward Pass techniques – Critical path (CRM) method – Risk identification – Assessment – Monitoring – PERT technique – Monte Carlo simulation – Resource Allocation – Creation of critical patterns – Cost schedules.

#### **UNIT IV PROJECT MANAGEMENT AND CONTROL**

Framework for Management and control – Collection of data Project termination – Visualizing progress – Cost monitoring – Earned Value Analysis- Project tracking – Change control-Software Configuration Management – Managing contracts – Contract Management.

#### **UNIT V STAFFING IN SOFTWARE PROJECTS**

Managing people – Organizational behavior – Best methods of staff selection – Motivation – The Oldham-Hackman job characteristic model – Ethical and Programmed concerns – Working in teams – Decision making – Team structures – Virtual teams – Communications genres – Communication plans.

#### **TEXTBOOK:**

1. Bob Hughes, Mike Cotterell and Rajib Mall: Software Project Management – Fifth Edition, Tata Mc Graw Hill, New Delhi, 2012.

#### REFERENCES:

- 1. Robert K. Wysocki "Effective Software Project Management", Wiley Publication, 2011.
- 2. Walker Royce: "Software Project Management", Addison Wesley, 1998.