Course:Major
Software Project Management

Semester II	Credits: 2	Subject Code: SMAJCSPM223553	Lectures: 30

Course Outcome:

At the end of this course, the learner will be able to:

- CO1 - Understand and apply the skills required to ensure successful medium and large-scale software projects.
- CO2 - Examine and Analyze Requirements Elicitation, Project Management, Verification and Validation and Management of Large Software Engineering Projects.
- CO 3 - Learn the different time and cost management techniques to help estimate the project progress.
- CO4 - Apply different techniques in monitoring and control of projects and work in teams to evaluate the different modes of communication among people.

Unit 1:Project Management Framework I	15

- Introduction to Project Management-What is a Project? What is Project management? Project phases and project life cycle, Organizational structure, Qualities of Project Manager
- Project Management Components-Project Integration Management-Project plan development and execution, Change control, Configuration management
- Scope Management-Strategic planning, Scope planning, definition, Verification and control
- Time management-Activity planning. Schedule development and control,GANTT Chart
- Cost Management-Cost estimation and Control, COCOMO Model,Basic COCOMO numerical

Unit 2: Project Management Framework II	15

- Quality Management-Quality planning and assurance
- Human Resource Management-Organizational planning, Staff acquisition
- Communication Management-Information distribution, Reporting
- Risk Management-Risk identification, Quantification and control
- Procurement Management-Solicitation management and control, Contract administration

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References Books:

- Kathy Schwalbe, *Information Technology Project,*Cenage Learning, 6th Edition , *Management*, ISBN-13 :9781111221751
- Norman E. Fenton and Shari Lawrence Pfleeger, *Software Metrics: A rigorous and Practical Approach,*S International Thomson Computer Press
- McG,Roger, *Software Engineering: A Practioner's Approach,* Pressman ,ISBN: 9780071267823
- Robert B. Grady, *Practical Software Metrics for Project Management and Process Improvement,*Prenticehall, ISBN: 9780137203840

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