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| 13CS3106 | - | SOFTWARE PROJECT MANAGEMENT |

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| Hours / Week | : | 4 |  | Sessional Marks | : | 40 |
| Credits | : | 4 |  | End Examination Marks | : | 60 |

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| **UNIT - I** |
| **Introduction**: Tell Everyone the Truth All the Time, Trust Your Team, Review Everything, Test Everything, All Software Engineers Are Created Equal, Doing the Project Right Is Most Efficient.**Software Project Planning**: Understand the Project Needs, Create the Project Plan, Diagnosing Project Planning Problems. **Estimation**: Elements of a Successful Estimate, Wideband Delphi Estimation, Other Estimation Techniques, Diagnosing Estimation Problems. |
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| **UNIT – II** |
| **Project Schedules**: Building the Project Schedule, Managing Multiple Projects, Use the Schedule to Manage Commitments, Diagnosing Scheduling Problems. **Reviews**: Inspections, Deskchecks, Walkthroughs, Code Reviews, Pair Programming, Use Inspections to Manage Commitments, Diagnosing Review Problems. |
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| **UNIT – III** |
| **Software Requirements**: Requirements Elicitation, Use Cases, Software Requirements Specification, Change Control, Introduce Software Requirements Carefully, Diagnosing Software Requirements Problems. **Design And Programming**: Review the Design, Version Control with Subversion, Refactoring, Unit Testing, Use Automation, Be Careful with Existing Projects, Diagnosing Design and Programming Problems. |
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| **UNIT – IV** |
| **Software Testing**: Test Plans and Test Cases, Test Execution, Defect Tracking and Triage, Test Environment and Performance Testing, Smoke Tests, Test Automation, Postmortem Reports, Using Software Testing Effectively, Diagnosing Software Testing Problems. **Understanding Change**: Why Change Fails, How to Make Change Succeed. |
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| **UNIT - V** |
| **Management And Leadership**: Take Responsibility, Do Everything Out in the Open, Manage the Organization, Manage Your Team. **Managing An Outsourced Project**: Prevent Major Sources of Project Failure, Management Issues in Outsourced Projects, Collaborate with the Vendor. **Process Improvement**: Life Without a Software Process, Software Process Improvement, Moving Forward |
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| TEXT BOOKS |
| 1. Applied Software Project Management by Andrew Stellman and Jennifer Greene, O’Reilly, 2005
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| REFERENCE BOOKS |
| 1. Quality Software Project Management By Robert T. Futrell, Donald F. Shafer, Linda I. Safer, PHI, 2002
2. Software Project Management in Practice By Pankaj Jalote, Addison Wesley, 2002
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