



C-DAC & Gujarat Technological University
M.E. Computer Engineering
(Wireless Mobile Computing)
Gandhinagar

Semester: II

Subject Name: System Development Methodology

Subject Code: 2725302

Course Content:

Software Engineering, Brief concept of Software Life Cycle Models, Agile Techniques for software development, Software Development Tools & Techniques, Software Quality Assurance, Introduction to Coding Standards, Software Testing, Different Testing Tools, Test Driven Development (TDD) Project Management, Risk Analysis and Management, Introduction to MS Project, Case Study

Text Book:

1. Fundamental of Software Engineering by Rajib Mall/ PHI
2. Agile Project Management with Scrum by Ken Schwaber

References Books:

1. Ian Sommerville, Software Engineering, 7th Edition, Addison-Wesley
 2. Grady Booch, James Rumbaugh, Ivar Jacobson, "Unified Modeling Language
 3. Users Guide", 2nd Edition, Addison- Wesley
 4. Jim Arlow, Ila Neustadt, "UML 2 and Unified Process: Practical Object Oriented
 1. Analysis and Design. ", 2nd Edition, Addison- Wesley
 5. Tom Pender, "UML Bible", John Wiley & sons
 6. Desikan, Ramesh, ' Software Testing: principles and Practices", Pearson
 7. Burnstein, "Practical Software Testing", Springer International Edition
 8. William E. Perry, " Effective Methods for Software Testing", Wiley
 9. Stephen H. Kan, "Metrics and Models in Software Quality Engineering", Pearson
 10. Agile Estimating and Planning by Mike Cohn
- Succeeding with Agile: Software Development Using Scrum by Mike Cohn