2.18 30330 SOFTWARE ENGINEERING

UNIT-1 INTRODUCTION TO SOFTWARE ENGINEERING
1.1 Basics of Software Engineering
1.2 Software Development Life cycle
1.3 Software Development Life Cycle Models
1.4 Software Requirement Analysis

UNIT-2 SOFTWARE DESIGN AND PLANNING
2.1 Software Design
2.2 Software Planning
2.3 COCOMO Model
2.4 CASE

UNIT-3 SOFTWARE MAINTENANCE AND RISK MANAGEMENT
3.1 Software Maintenance
3.2 Software configuration management activities
3.3 Risk management
3.4 Project scheduling

UNIT-4 SOFTWARE TESTING
4.1 Software Testing
4.2 Levels of testing
4.3 Software Testing strategies
4.4 Testing Tools

UNIT-5 SOFTWARE RELIABILITY AND QUALITY ASSURANCE
5.1 Software Quality Assurance
5.2 CMM - Five levels - ISO 9000
5.3 Software Reliability
5.4 Reverse Software Engineering

Reference Books:
1 Software Engineering by Ian Sommerville, Pearson Education
2 Software Engineering – A practioner's Approach by Roger S. Pressman, McGrawHill
3. Software Engineering by Sajan Mathew, S. Chand & Company Ltd
4. Integrated approach to Software Engineering by Pankaj Jalote, Narosa Publishing House, 2004
5. Software Engineering fundamentals by Ali Behforooz and Fredick J Hudson, Oxford University press, 2005