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Course: 302: Software Engineering-I

Course Content	**Unit 1. Introduction** 1.1 What is software? 1.2 Software characteristics. 1.3 Software Engineering: definition. **Unit 2. Software Engineering** 2.1 Software Applications, Myths. 2.2 Software Engineering: Generic View. **Unit 3. Software Process models** 3.1 Introduction of Waterfall model. 3.2 Prototype model. 3.3 Spiral Model 3.4 Incremental Model **Unit 4. Requirement analysis** 4.1 Introduction. 4.2 Current Application Analysis. 4.3 Requirement gathering techniques & Fact Finding, Recording Outcome. 4.4 DFD, Data Dictionary and Process Specification. 4.5 Importance of Requirement Specifications. 4.6 Software Requirement Specification Document. **Unit 5. System Design** 5.1 Design model. 5.2 Principal and Concepts. 5.3 Functional Independence. 5.4 Module & Sequence. 5.5 Effectiveness of Modular Design. 5.6 Mapping of Requirements into Design. 5.7 Design Documentation.