

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Computer Science and Engineering - NOC:Software Engineering

Subject Co-ordinator - Prof. Rajib Mall

Co-ordinating Institute - IIT - Kharagpur

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

- Lecture 1 - Introduction - I
- Lecture 2 - Introduction - II
- Lecture 3 - Introduction - III
- Lecture 4 - Introduction - IV
- Lecture 5 - Introduction - V
- Lecture 6 - Life Cycle Model
- Lecture 7 - Life Cycle Model
- Lecture 8 - Waterfall Model
- Lecture 9 - Waterfall Derivatives
- Lecture 10 - Incremental Model
- Lecture 11 - Evolutionary Model
- Lecture 12 - Agile Model
- Lecture 13 - Extreme Programming and Scrum
- Lecture 14 - Scrum
- Lecture 15 - Introduction to requirement specification
- Lecture 16 - Requirement gathering and analysis
- Lecture 17 - Functional requirements
- Lecture 18 - Representation of complex programming logic
- Lecture 19 - Design Fundamentals
- Lecture 20 - Modular Design
- Lecture 21 - Classification of Cohesion
- Lecture 22 - Classification of Coupling
- Lecture 23 - Introduction to structured analysis and structured design
- Lecture 24 - Basics of Data Flow Diagrams (DFD)
- Lecture 25 - Developing DFD Model
- Lecture 26 - Examples of DFD Model development
- Lecture 27 - DFD Model - More Examples
- Lecture 28 - Essentials of Structure Chart
- Lecture 29 - Transform Analysis, Transaction Analysis

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- Lecture 30 - Structured Design Examples
- Lecture 31 - Use Case Modelling
- Lecture 32 - Factoring Use Cases
- Lecture 33 - Overview of Class diagram
- Lecture 34 - Inheritance relationship
- Lecture 35 - Association relationship
- Lecture 36 - Aggregation/ Composition and dependency relations
- Lecture 37 - Interation Modelling
- Lecture 38 - Development of Sequence diagrams
- Lecture 39 - State-Machram diagram
- Lecture 40 - An Object-Oriented design process
- Lecture 41 - Domain Analysis
- Lecture 42 - Examples of object-oriented design
- Lecture 43 - Basic concepts in Testing - I
- Lecture 44 - Basic concepts in Testing - II
- Lecture 45 - Basic concepts in Testing - III
- Lecture 46 - Unit testing strategies - I
- Lecture 47 - Unit testing strategies - II
- Lecture 48 - Equivalence Class Testing - I
- Lecture 49 - Equivalence Class Testing - II
- Lecture 50 - Special Value Testing
- Lecture 51 - Combinatorial Testing
- Lecture 52 - Decision Table Testing
- Lecture 53 - Cause effect graphing
- Lecture 54 - Pairwise Testing
- Lecture 55 - White box Testing
- Lecture 56 - Condition Testing
- Lecture 57 - MC/DC Coverage
- Lecture 58 - MC/DC Testing
- Lecture 59 - Path Testing
- Lecture 60 - Dataflow and Mutation Testing