

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

NPTEL Video Course - Computer Science and Engineering - NOC:Software Testing (2017)

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Co-ordinating Institute - IIT - Bombay

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

Lecture 1 - Motivation  
Lecture 2 - Terminologies  
Lecture 3 - Testing based on Models and Criteria  
Lecture 4 - Automation - JUnit as an example  
Lecture 5 - Basics of Graphs  
Lecture 6 - Structural Graph Coverage Criteria  
Lecture 7 - Elementary Graph Algorithms - Part 1  
Lecture 8 - Elementary Graph Algorithms - Part 2  
Lecture 9 - Algorithms  
Lecture 10 - Assignment 2  
Lecture 11 - Data Flow Graphs  
Lecture 12 - Algorithms  
Lecture 13 - Graph Coverage Criteria  
Lecture 14 - Testing Source Code  
Lecture 15 - Data Flow Graph Coverage Criteria  
Lecture 16 - Software Design and Integration Testing  
Lecture 17 - Design Integration Testing and Graph Coverage  
Lecture 18 - Specification Testing and Graph Coverage  
Lecture 19 - Graph Coverage and Finite state Machines  
Lecture 20 - Assignment 4  
Lecture 21 - Logic  
Lecture 22 - Logic  
Lecture 23 - Coverage Criteria, (Continued...)  
Lecture 24 - Logic Coverage Criteria  
Lecture 25 - Logic Coverage Criteria  
Lecture 26 - Logic Coverage Criteria  
Lecture 27 - Logic Coverage Criteria  
Lecture 28 - Logic Coverage Criteria  
Lecture 29 - Logic Coverage Criteria

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- Lecture 30 - Week 6 Assignment Solving
- Lecture 31 - Functional Testing
- Lecture 32 - Input Space Partitioning
- Lecture 33 - Input Space Partitioning
- Lecture 34 - Input Space Partitioning Coverage Criteria
- Lecture 35 - Syntax-Based Testing
- Lecture 36 - Mutation Testing
- Lecture 37 - Mutation Testing for Programs
- Lecture 38 - Mutation Testing
- Lecture 39 - Mutation Testing Vs. Graphs and Logic Based Testing
- Lecture 40 - Assignment Solving for Week8
- Lecture 41 - Mutation testing
- Lecture 42 - Mutation Testing
- Lecture 43 - Mutation testing
- Lecture 44 - Software Testing Course
- Lecture 45 - Testing of web Applications and Web Services
- Lecture 46 - Testing of web Applications and Web Services
- Lecture 47 - Testing of web Applications and Web Services
- Lecture 48 - Testing of Object-Oriented Applications
- Lecture 49 - Testing of Object-Oriented Applications
- Lecture 50 - Symbolic Testing - 1
- Lecture 51 - Symbolic Testing - 2
- Lecture 52 - DART
- Lecture 53 - DART
- Lecture 54 - DART
- Lecture 55 - Testing of Object-Oriented Applications
- Lecture 56 - Testing of Mobile Applications
- Lecture 57 - Non-Functional System Testing
- Lecture 58 - Regression Testing
- Lecture 59 - Assignment
- Lecture 60 - Software Testing