

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

NPTEL Video Course - Multi Disciplinary - NOC:Introduction to Reliability Engineering

Subject Co-ordinator - Prof. Neeraj Kumar Goyal

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Introduction to Reliability Engineering  
Lecture 2 - Introduction to Reliability Engineering  
Lecture 3 - Introduction to Reliability Engineering  
Lecture 4 - Probability Basics  
Lecture 5 - Probability Basics (Continued...)  
Lecture 6 - Constant Failure Rate Model - I  
Lecture 7 - Constant Failure Rate Model - II  
Lecture 8 - Constant Failure Rate Model - III  
Lecture 9 - Two Parameter Exponential Distribution  
Lecture 10 - Weibull Distribution (2 Parmeter)  
Lecture 11 - Burn-in Screening for Weibull  
Lecture 12 - Weibull Distribution  
Lecture 13 - Normal Distribution  
Lecture 14 - Lognormal Distribution  
Lecture 15 - System Reliability Modelling  
Lecture 16 - System Reliability Modelling (Continued...)  
Lecture 17 - System Reliability Modelling (Continued...)  
Lecture 18 - System Reliability Modelling (Continued...)  
Lecture 19 - System Reliability Modelling (Continued...)  
Lecture 20 - System Reliability Modelling (Continued...)  
Lecture 21 - Markov Analysis  
Lecture 22 - Markov Analysis (Continued...)  
Lecture 23 - Markov Analysis (Continued...)  
Lecture 24 - Markov Analysis (Continued...)  
Lecture 25 - Markov Analysis (Continued...)  
Lecture 26 - Failure Data Analysis: Non-Parametric Approach  
Lecture 27 - Failure Data Analysis: Non-Parametric Approach (Continued...)  
Lecture 28 - Failure Data Analysis: Non-Parametric Approach (Continued...)  
Lecture 29 - Failure Data Analysis: Non-Parametric Approach (Continued...)

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- Lecture 30 - Failure Data Analysis (Parametric)
- Lecture 31 - Failure data analysis (Parametric) (Continued...)
- Lecture 32 - Failure data analysis (Parametric) (Continued...)
- Lecture 33 - Goodness of fit
- Lecture 34 - Goodness of Fit (GoF) Tests
- Lecture 35 - Goodness of Fit (GoF) Tests (Continued...)
- Lecture 36 - Maintainability and Availability
- Lecture 37 - Maintainability and Availability (Continued...)
- Lecture 38 - Maintainability and Availability (Continued...)
- Lecture 39 - Maintainability and Availability (Continued...)
- Lecture 40 - Summary of the course Introduction to Reliability Engineering