

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

NPTEL Video Course - Management - NOC:Design and Analysis of Experiments

Subject Co-ordinator - Prof. Jhareswar Maiti

Co-ordinating Institute - IIT - Kharagpur

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

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- Lecture 30 - Introduction to Factorial Experiments
- Lecture 31 - Statistical Analysis of Factorial Experiments
- Lecture 32 - Estimation of parameters and model adequacy test for factorial experiment
- Lecture 33 - Full\_Factorial\_Single\_Replicate
- Lecture 34 - General\_Full\_factorial\_design
- Lecture 35 - Blocking\_Factorial\_design
- Lecture 36 - Two\_level\_Factorial\_Experiment
- Lecture 37 - Statistical analysis of  $2^k$  factorial design
- Lecture 38 -  $2_k$  Factorial Design Single Replicate
- Lecture 39 -  $2_k$  Factorial Design Centre Points
- Lecture 40 -  $2_k$  Factorial Design Optimality Issues
- Lecture 41 -  $2_k$  Factorial Design - Issues with Coded Design Variables
- Lecture 42 - Blocking and Confounding in  $2_k$  Factorial Design
- Lecture 43 - Blocking and Confounding in  $2_k$  Factorial Design (Continued...)
- Lecture 44 - Blocking and Confounding in  $2_k$  Factorial Design (Continued...)
- Lecture 45 - Fractional factorial design
- Lecture 46 - Fractional factorial design
- Lecture 47 - Fractional factorial design
- Lecture 48 - Alias Structure in Fractional factorial design
- Lecture 49 - General  $2^{(k-p)}$  Fractional Factorial Design
- Lecture 50 - Fractional factorial design
- Lecture 51 - Plackett-Burman Designs
- Lecture 52 - Response Surface Methodology (RSM) - First Order Model
- Lecture 53 - Response Surface Methodology (RSM) - First Order Model (Continued...)
- Lecture 54 - Experimental Design for Fitting Response Surfaces
- Lecture 55 - Response Surface Methodology (RSM)
- Lecture 56 - Analysis of Second Order Response Surface
- Lecture 57 - ANOVA using MINITAB
- Lecture 58 - Factorial Design using MINITAB
- Lecture 59 - Fractional Factorial Design using MINITAB
- Lecture 60 - Response Surface Methodology using MINITAB