

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

NPTEL Video Course - Mechanical Engineering - NOC:Manufacturing Systems Technology - Part II

Subject Co-ordinator - Dr. Shantanu Bhattacharya

Co-ordinating Institute - IIT - Kanpur

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

- Lecture 1 - Introduction to Quality Engineering
- Lecture 2 - Quality Costs
- Lecture 3 - Product Design
- Lecture 4 - Design of Experiments
- Lecture 5 - Applications of Quality Loss Function
- Lecture 6 - Product Selection Strategies
- Lecture 7 - Robust Design Approaches
- Lecture 8 - Taguchi's Method
- Lecture 9 - Failure mode and effects analysis
- Lecture 10 - Problem Solving : Failure mode and effects analysis - 1
- Lecture 11 - Problem solving : Failure mode and effects analysis - 2
- Lecture 12 - Product quality improvement methods
- Lecture 13 - Quality tools - Part 1
- Lecture 14 - Quality Tools - Part 2
- Lecture 15 - Different types of control charts
- Lecture 16 - Mean, Variance and Standard deviation
- Lecture 17 - X bar chart, R-chart
- Lecture 18 - Plotting methods for control charts
- Lecture 19 - Six Sigma - Part 1
- Lecture 20 - Six Sigma - Part 2
- Lecture 21 - Theory of probability
- Lecture 22 - Determining the defective products using Probability
- Lecture 23 - Sampling based on Permutations and Combinations
- Lecture 24 - Binomial distribution
- Lecture 25 - Poisson distribution
- Lecture 26 - Poisson distribution
- Lecture 27 - Normal Distribution
- Lecture 28 - Overview of control charts and different types of distribution
- Lecture 29 - Fundamental of Robotics and its applications in Automated Systems

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Lecture 30 - Joint configuration systems of Robot