

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

NPTEL Video Course - Management - NOC:Six Sigma

Subject Co-ordinator - Prof. Jitesh J Thakkar

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Brief overview of the course
Lecture 2 - Quality concepts and definition
Lecture 3 - History of continuous improvement
Lecture 4 - Six Sigma Principles and Focus Areas - Part 1
Lecture 5 - Six Sigma Principles and Focus Areas - Part 2
Lecture 6 - Six Sigma Applications
Lecture 7 - Quality Management
Lecture 8 - Fundamentals of Total Quality Management
Lecture 9 - Cost of quality
Lecture 10 - Voice of customer
Lecture 11 - Quality Function Deployment (QFD)
Lecture 12 - Management and Planning Tools - Part 1
Lecture 13 - Management and Planning Tools - Part 2
Lecture 14 - Six Sigma Project Identification, Selection and Definition
Lecture 15 - Process characteristics and Monitoring
Lecture 16 - Process characteristics and analysis
Lecture 17 - Process Mapping
Lecture 18 - Data Collection and Summarization - Part 1
Lecture 19 - Data Collection and Summarization - Part 2
Lecture 20 - Measurement systems
Lecture 21 - Measurement systems analysis
Lecture 22 - Fundamentals of statistics
Lecture 23 - Probability theory
Lecture 24 - Process capability analysis
Lecture 25 - Process capability analysis
Lecture 26 - Process capability analysis
Lecture 27 - Non-normal process capability analysis
Lecture 28 - Hypothesis testing
Lecture 29 - Hypothesis Testing

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- Lecture 30 - Hypothesis Testing
- Lecture 31 - Hypothesis Testing
- Lecture 32 - Correlation and Regression Analysis
- Lecture 33 - Regression Analysis
- Lecture 34 - One-Way ANOVA
- Lecture 35 - Two-Way ANOVA
- Lecture 36 - Multi-vari Analysis
- Lecture 37 - Failure Mode Effect Analysis (FMEA)
- Lecture 38 - Introduction to Design of Experiment
- Lecture 39 - Randomized Block Design
- Lecture 40 - Randomized Block Design
- Lecture 41 - Factorial Design
- Lecture 42 - Factorial Design
- Lecture 43 - Fractional Factorial Design
- Lecture 44 - Fractional Factorial Design
- Lecture 45 - Taguchi Method
- Lecture 46 - Taguchi Method
- Lecture 47 - Seven QC Tools
- Lecture 48 - Statistical Process Control
- Lecture 49 - Statistical Process Control
- Lecture 50 - Operating Characteristic (OC) Curve for Variable Control charts
- Lecture 51 - Statistical Process Control
- Lecture 52 - Operating Characteristic (OC) Curve for Attribute Control charts
- Lecture 53 - Statistical Process Control
- Lecture 54 - Acceptance Sampling
- Lecture 55 - Acceptance Sampling Plans for Attributes
- Lecture 56 - Design of Acceptance Sampling Plans for Attributes
- Lecture 57 - Acceptance Sampling Plans for Variables
- Lecture 58 - Acceptance Sampling
- Lecture 59 - Design for Six Sigma (DFSS)
- Lecture 60 - Design for Six Sigma (DFSS)
- Lecture 61 - Team Management
- Lecture 62 - Six Sigma
- Lecture 63 - Six Sigma