NPTEL Video Course - Management - NOC:Advanced Green Manufacturing Systems

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Co-ordinating Institute - IIT - Kanpur

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

Lecture 1 - Significance of manufacturing
Lecture 2 - Productivity in manufacturing
Lecture 3 - Product lifecycle
Lecture 4 - Introduction to optimization
Lecture 5 - Mathematical modeling example
Lecture 6 - Rules of modeling
Lecture 7 - Modeling with continuous variable - Part 1
Lecture 8 - Modeling with continuous variable - Part 2
Lecture 9 - Value Engineering Green Plan
Lecture 10 - Value Engineering Green Plan
Lecture 11 - Value Engineering Green Plan
Lecture 12 - Value Engineering Green Plan - FAST diagramming
Lecture 13 - Value Engineering - Case Study
Lecture 14 - Value Engineering Green Plan - Paired comparison technique
Lecture 15 - Creativity Techniques
Lecture 16 - Frugal Innovation
Lecture 17 - Green Quality Function Deployment - Part 1
Lecture 18 - Green Quality Function Deployment - Part 2
Lecture 19 - Solving optimization problems
Lecture 20 - Solving optimization problems using MS Excel
Lecture 21 - MS Excel Solver demonstration
Lecture 22 - Solving optimization problems using MS Excel
Lecture 23 - Design of Experiments for Factor Selection
Lecture 24 - Fundamental Techniques of Experimentation
Lecture 25 - Simple Comparative Experiments
Lecture 26 - ANOVA - Part 1
Lecture 27 - ANOVA - Part 2
Lecture 28 - ANOVA - Part 3
Lecture 29 - Design for Environment - Part 1

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Lecture 30 - Design for Environment - Part 2
Lecture 31 - Design for Environment - Part 3
Lecture 32 - Design for Environment - Part 4
Lecture 33 - Life Cycle Assessment, EIO-LCA tool
Lecture 34 - Life Cycle Assessment, process based software
Lecture 35 - Introduction to Factorial Experiments
Lecture 36 - Statistical Analysis in Factorial Experiments
Lecture 37 - Numerical Analysis in Factorial Experiments - Part 1
Lecture 38 - Numerical Analysis in Factorial Experiments - Part 2
Lecture 39 - Overview of Optimization Methods - Part 1
Lecture 40 - Overview of Optimization Methods - Part 2
Lecture 41 - Green Factory through Green Unit Processes - Part 1
Lecture 42 - Green Factory through Green Unit Processes - Part 2
Lecture 43 - Green Factory Simulation - Part 1
Lecture 44 - Green Factory Simulation - Part 2
Lecture 45 - Green Factory Simulation - Part 3
Lecture 46 - Advanced Green Manufacturing Systems course summary
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