NPTEL Video Course - Mechanical Engineering - NOC:Design Practice

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Co-ordinating Institute - IIT - Kanpur

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

Lecture 1 - Brief introduction of Design systems
Lecture 2 - Product Developement
Lecture 3 - Basic protocols of industrial design
Lecture 4 - Design thinking and innovation
Lecture 5 - Brain Storming
Lecture 6 - Design prototyping
Lecture 7 - Generic Phases of the Design
Lecture 8 - Configurational Design Aspects
Lecture 9 - Concurrent Engineering
Lecture 10 - Concurrent Engineering - 2
Lecture 11 - Concurrent Engineering Approaches
Lecture 12 - Concurrent Engineering Approaches - 2
Lecture 13 - Benefits of concurrent engineering
Lecture 14 - Concurrent engineering environment influencing dimensions
Lecture 15 - Concurrent engineering environment influencing dimensions - 2
Lecture 16 - Program and product Interface dimensions in Concurrent engineering
Lecture 17 - Product Developement Methodology
Lecture 18 - Elements of concurrent engineering
Lecture 19 - Business relationships in concurrent engineering
Lecture 20 - Organizational elements in concurrent engineering
Lecture 21 - Techniques for the Implementation of concurrent engineering environment
Lecture 22 - Average quality loss
Lecture 23 - Robustness in Design
Lecture 24 - Robustness in Design - 2
Lecture 25 - Material selection in Engineering design
Lecture 26 - Material selection in Engineering Design.
Lecture 27 - Basic steps in Material Selection Process
Lecture 28 - Design of Work Systems
Lecture 29 - Motion Study

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Lecture 30 - Axiomatic Design
Lecture 31 - Introduction to group technology
Lecture 32 - Failure Mode Effect Analysis

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