

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

NPTEL Video Course - Engineering Design - NOC:Functional and Conceptual Design

Subject Co-ordinator - Dr. T Asokan

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Introduction
Lecture 2 - Birth and Growth of a Product
Lecture 3 - Types of Design
Lecture 4 - Stage-Gate and Spiral Design
Lecture 5 - Stages in New Product Development
Lecture 6 - Laboratory Exercise - 1
Lecture 7 - Reverse Engg. and Redesign
Lecture 8 - Technical Questioning and Mission Statement
Lecture 9 - Mission Statement- Examples
Lecture 10 - Laboratory Exercise - 2
Lecture 11 - Identifying Customer Needs
Lecture 12 - Customer Need Analysis
Lecture 13 - Product Specifications
Lecture 14 - Laboratory Exercise - 3
Lecture 15 - Need - Metric Matrix
Lecture 16 - Establishing Target Specifications
Lecture 17 - HoQ
Lecture 18 - Laboratory Exercise - 4
Lecture 19 - Functional Decomposition
Lecture 20 - FAST Method
Lecture 21 - Laboratory Exercise - 5
Lecture 22 - Function Structure (Flow Method)
Lecture 23 - Flow Method Examples
Lecture 24 - Laboratory Exercise - 6
Lecture 25 - Product and Portfolio Architecture
Lecture 26 - Portfolio Architecture Selection
Lecture 27 - Laboratory Exercise - 7
Lecture 28 - Product Architecture
Lecture 29 - Identification of Modules

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Lecture 30 - Laboratory Exercise - 8
Lecture 31 - Concept Development
Lecture 32 - Intuitive Methods
Lecture 33 - Laboratory Exercise - 9
Lecture 34 - Logical Method- TRIZ
Lecture 35 - Concept Selection
Lecture 36 - Laboratory Exercise - 10
Lecture 37 - Concept Scoring
Lecture 38 - Laboratory Exercise - 11