

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

NPTEL Video Course - Engineering Design - NOC: System Design for Sustainability

Subject Co-ordinator - Prof. Sharmistha Banerjee

Co-ordinating Institute - IIT - Guwahati

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

- Lecture 1 - Sustainability and Sustainable Development - Understanding Un-sustainability and need for Sustainability
- Lecture 2 - Sustainability and Sustainable Development - Definitions
- Lecture 3 - Sustainability and Sustainable Development - Pathway
- Lecture 4 - Systems Approach to Design
- Lecture 5 - Evolution of sustainability within Design
- Lecture 6 - Diverse Approaches to Design for Sustainability - Part A
- Lecture 7 - Diverse Approaches to Design for Sustainability - Part B
- Lecture 8 - Relationship between approaches to Design for Sustainability and the application context
- Lecture 9 - Product Life Cycle Design - Methods and Strategies
- Lecture 10 - Product Life Cycle Assessment - Part A
- Lecture 11 - Product Life Cycle Assessment - Part B
- Lecture 12 - Life Cycle Assessment using Software
- Lecture 13 - Design for Product Life Cycle
- Lecture 14 - Product-Service System Design - Definition and Types
- Lecture 15 - Sustainable Product-Service System Design - Definition and Examples
- Lecture 16 - Sustainable Product-Service System Design - Examples
- Lecture 17 - Khadi Movement as a precursor to PSS thinking
- Lecture 18 - Sustainable Product-Service System Design - Transition Paths, Strategy and Challenges
- Lecture 19 - Sustainable Product-Service System Design - Methods and Tools - Part A
- Lecture 20 - Sustainable Product-Service System Design - Methods and Tools - Part B
- Lecture 21 - Sustainable Product-Service System Design - Methods and Tools - Part C
- Lecture 22 - Sustainable Product-Service System Design - Methods and Tools - Part D
- Lecture 23 - Sustainable Product-Service System Design - Methods and Tools - Part E
- Lecture 24 - Sustainable Product-Service System Design - Methods and Tools - Part F
- Lecture 25 - Sustainable Product-Service System Design - Methods and Tools - Part G
- Lecture 26 - Sustainable Product-Service System Design - Methods and Tools (Summary)
- Lecture 27 - Sufficiency Economy Philosophy applied to Sustainable PSS Thinking
- Lecture 28 - LCA of PSS
- Lecture 29 - Sustainable Product-Service System Design Applied to Distributed Economy

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- Lecture 30 - Other Design for Sustainability Tools and approaches - Architecture
- Lecture 31 - Other Design for Sustainability Tools and approaches - Agriculture
- Lecture 32 - Other Design for Sustainability Tools and approaches - Cities and communities
- Lecture 33 - Other Design for Sustainability Tools and approaches - Carbon Footprint
- Lecture 34 - Co-design Session
- Lecture 35 - Design for Sustainability - Engineering Design Criteria and Guidelines
- Lecture 36 - Design for Sustainability - Engineering Design Criteria and Guidelines (ICS Toolkit)
- Lecture 37 - Design for Sustainability - Concluding Lecture - Part A
- Lecture 38 - Design for Sustainability - Concluding Lecture - Part B