

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

NPTEL Video Course - Architecture - NOC:Strategies for Sustainable Design

Subject Co-ordinator - Prof. Shiva Ji

Co-ordinating Institute - IIT - Madras

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

- Lecture 1 - Strategies for Sustainable Design - Welcome Lecture
- Lecture 2 - Various Perspectives around Sustainability
- Lecture 3 - Spheres of Energy Efficient/Green/Environmental/Sustainable Designs
- Lecture 4 - Environmental Sustainability
- Lecture 5 - Social Sustainability
- Lecture 6 - Economic Sustainability
- Lecture 7 - Climate Change Mitigation and the Way Forward
- Lecture 8 - Future of Human Habitation Design
- Lecture 9 - Relevance of Sustainable Design in Contemporary Context
- Lecture 10 - Built Environment and Energy Consumption
- Lecture 11 - Reliance and Dependence of Building Design on Energy
- Lecture 12 - Current Scenario of Sustainable Design: Indian
- Lecture 13 - Current Scenario of Sustainable Design: International
- Lecture 14 - Designing Strategically for Preventing pollution: Air, Water, Soil, Noise, Light Radiation, etc
- Lecture 15 - Low Environmental Impact
- Lecture 16 - Thinking for Alternatives through Systemic Design
- Lecture 17 - Consumption and Consumerist Lifestyle
- Lecture 18 - Environmental impact Assessment
- Lecture 19 - Lifecycle Analysis - Part A
- Lecture 20 - Lifecycle Analysis - Part B
- Lecture 21 - Growth and Development in Construction and Allied Sectors
- Lecture 22 - Policy Push in Real Estate and Manufacturing Sectors
- Lecture 23 - Policy Push for Development of the Low Economic Regions
- Lecture 24 - Sustainable Building Materials
- Lecture 25 - Reduce/Reuse/Recycle
- Lecture 26 - National Building Code 2016 - Part 11 and Energy Conservation Building Code
- Lecture 27 - Guidelines for Building Design by SA Methods: GRIHA
- Lecture 28 - UN SDG for Sustainable Development
- Lecture 29 - LeNS Design Method and Tools such as SPSS, MSDS, DE

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- Lecture 30 - Vernacular Design Case Example
- Lecture 31 - Climate Responsiveness
- Lecture 32 - Thinking the Unthinkable: Need for Innovation in Design Process
- Lecture 33 - Design for Net-Zero Energy, Lighting, Ventilation, Views and Human Comfort
- Lecture 34 - D4S with Inspiration from Nature
- Lecture 35 - D4S for Optimization of Manufacturing
- Lecture 36 - International Conventions, Laws and Emerging Technologies for SD
- Lecture 37 - Environmental Laws
- Lecture 38 - Emerging Technologies and their Possible Intervention in Design
- Lecture 39 - Case 1 - Campus Planning and Design of IIT Gandhinagar
- Lecture 40 - Case 2 - A Comparative Analysis of Product Designs
- Lecture 41 - Case 3 - Design of First Net-Zero Building of India
- Lecture 42 - Case 4 - A Comparative Analysis of International Design Projects
- Lecture 43 - Summary