

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

NPTEL Video Course - Architecture - NOC:Building Energy Systems and Auditing

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Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Course Introduction
- Lecture 2 - Thermal Properties of Material - I
- Lecture 3 - Thermal Properties of Material - I (Continued...)
- Lecture 4 - Ventilation and Air Properties
- Lecture 5 - Psychometric Operations
- Lecture 6 - HVAC Systems
- Lecture 7 - Lighting System
- Lecture 8 - Electrical Machines and Appliances System
- Lecture 9 - Low Energy Cooling Systems - I
- Lecture 10 - Low Energy Cooling Systems - II
- Lecture 11 - Building Heat Gain Calculation
- Lecture 12 - Cooling Degree Days Method
- Lecture 13 - Cooling Load Calculation - I
- Lecture 14 - Cooling Load Calculation - II
- Lecture 15 - Periodic Cooling Load
- Lecture 16 - Envelope Performance Factor
- Lecture 17 - EPF - Prescriptive Requirements
- Lecture 18 - EPF - Analysis
- Lecture 19 - Daylighting Concepts
- Lecture 20 - ECBC recommendation for Daylighting
- Lecture 21 - Introduction to Eco-Niwas Samhita 2018
- Lecture 22 - Overview of Residential Envelope Transmittance Value
- Lecture 23 - Computation of Residential Envelope Transmittance Value
- Lecture 24 - Thermal Comfort Parameters
- Lecture 25 - Thermal Comfort Indices
- Lecture 26 - Introduction to Life Cycle Analysis
- Lecture 27 - Embodied Energy Calculation
- Lecture 28 - Building Life Cycle Analysis
- Lecture 29 - Introduction to Energy Audit

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- Lecture 30 - Energy Audit: Case Studies
- Lecture 31 - Introduction to Energy Performance Index
- Lecture 32 - Star Rating for Office Building
- Lecture 33 - Star Rating of Shopping Mall and BPO
- Lecture 34 - Introduction to Energy Retrofitting of Buildings
- Lecture 35 - Energy Retrofitting of buildings: Types System and key phases
- Lecture 36 - Solar Energy - I
- Lecture 37 - Solar Energy - II
- Lecture 38 - BIPV and Solar Thermal
- Lecture 39 - Wind and Bio Energy
- Lecture 40 - Net Zero Building and Sustainability