

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

NPTEL Video Course - Architecture - NOC:Architectural Approaches to Decarbonization of Buildings

Subject Co-ordinator - Prof. Iyer Vijayalaxmi Kasinath

Co-ordinating Institute - School of Planning and Architecture Vijayawada

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

- Lecture 1 - Introduction to GHG and the role of buildings in its reduction
- Lecture 2 - Strategies to reduce GHG in Building Industry
- Lecture 3 - Policies, initiatives and future trends to reduce GHG in the Building Industry
- Lecture 4 - India's stand on Carbon Neutrality
- Lecture 5 - India's approach to long term low Low Carbon Development - Part 1
- Lecture 6 - India's approach to long term low Low Carbon Development - Part 2
- Lecture 7 - Embodied energy and Embodied Carbon
- Lecture 8 - Basics of Embodied and Operational Carbon - Part 1
- Lecture 9 - Basics of Embodied and Operational Carbon - Part 2
- Lecture 10 - Factors of Embodied energy calculation
- Lecture 11 - Operational Energy and Operational Carbon - Part 1
- Lecture 12 - Operational Energy and Operational Carbon - Part 2
- Lecture 13 - Strategies to reduce Operational Energy
- Lecture 14 - Strategies to reduce Operational Energy and Case study
- Lecture 15 - Impact of reducing Operational Energy and Operational Carbon
- Lecture 16 - Passive Design Strategies in Carbon neutral Architecture
- Lecture 17 - Orientation and Form for Passive cooling
- Lecture 18 - Appropriate Planning for Passive Architecture
- Lecture 19 - Appropriate fenestration for Passive Architecture
- Lecture 20 - Appropriate Planning and openings for Passive Architecture
- Lecture 21 - Settlement planning principles for carbon neutrality
- Lecture 22 - Settlement planning principles for carbon neutrality - case studies
- Lecture 23 - Appropriate Openings for reduced Operational Energy - Part 1
- Lecture 24 - Appropriate Openings for reduced Operational Energy - Part 2
- Lecture 25 - Methods of bringing in natural daylight
- Lecture 26 - Role of Landscape and water in Passive Design - Part 1
- Lecture 27 - Role of Landscape and water in Passive Design - Part 2
- Lecture 28 - Carbon neutrality through strategising building materials
- Lecture 29 - Choice of building materials for carbon neutrality - Part 1

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- Lecture 30 - Choice of building materials for carbon neutrality - Part 2
- Lecture 31 - Strategies to reduce Embodied Carbon through Design and Development
- Lecture 32 - Renewable building materials
- Lecture 33 - Renewable building materials and technologies
- Lecture 34 - Renewable building materials based Case studies
- Lecture 35 - High embodied carbon building materials
- Lecture 36 - Comparison between conventional and alternate building materials
- Lecture 37 - Environmental impacts of building materials and components
- Lecture 38 - Building Envelope types
- Lecture 39 - Dynamic Envelope - Case Studies Part 1
- Lecture 40 - Dynamic Envelope - Case Studies Part 2
- Lecture 41 - Low Energy Envelope - Part 1
- Lecture 42 - Low Energy Envelope - Part 2
- Lecture 43 - Natural Daylighting Strategies
- Lecture 44 - Daylighting optimized skylights
- Lecture 45 - Daylighting optimized fenestration
- Lecture 46 - Daylighting - Case studies 1
- Lecture 47 - Daylighting - Case studies 2
- Lecture 48 - Recap and Conclusion