

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

NPTEL Video Course - Architecture - NOC:Building Materials as a Cornerstone to Sustainability

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Co-ordinating Institute - School of Planning and Architecture Vijayawada

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

Lecture 1 - Introduction to Building materials, their classification, environmental issues

Lecture 2 - Vernacular Materials

Lecture 3 - Mud - Traditional Material

Lecture 4 - Mud as a Building material

Lecture 5 - Stone

Lecture 6 - Thatch

Lecture 7 - Bamboo

Lecture 8 - Binders

Lecture 9 - Strawbale

Lecture 10 - Laterite Quarry Waste

Lecture 11 - Alternate building materials

Lecture 12 - Flyash

Lecture 13 - Furnace Slag

Lecture 14 - Cross Laminated Timber

Lecture 15 - Construction and Demolition waste

Lecture 16 - Hempcrete

Lecture 17 - Phosphogypsum

Lecture 18 - Aerated Concrete

Lecture 19 - Alternate aggregate

Lecture 20 - Innovative Building materials

Lecture 21 - Bioluminescent paints

Lecture 22 - Milk Paints and Recycled Plastics

Lecture 23 - Agro bricks

Lecture 24 - Light emitting materials - concrete

Lecture 25 - Co2 absorbing concrete

Lecture 26 - Mycelium

Lecture 27 - Fibre Reinforced Concrete

Lecture 28 - Geopolymer concrete

Lecture 29 - Introduction to Advanced Building Materials

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

- Lecture 30 - Carbon Sequestration
- Lecture 31 - Ecobind Tiles
- Lecture 32 - Permeable Concrete
- Lecture 33 - Introduction to smart materials
- Lecture 34 - Types of Smart Materials
- Lecture 35 - Facade systems - Smart Windows
- Lecture 36 - LCD
- Lecture 37 - Photochromics
- Lecture 38 - Thermochromic
- Lecture 39 - Thermotropic materials
- Lecture 40 - Types of Thermotropic materials
- Lecture 41 - Phase Change Materials - Part 1
- Lecture 42 - Phase Change Materials - Part 2
- Lecture 43 - Adhesion changing smart materials
- Lecture 44 - Titanium di oxide products
- Lecture 45 - Mechanochromic, Chemochromic
- Lecture 46 - Electrochromics
- Lecture 47 - Nanocellulose and Electroluminiscent
- Lecture 48 - Concluding Lectuer