

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

NPTEL Video Course - Architecture - NOC:Structure, Form and Architecture: The Synergy

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Co-ordinating Institute - IIT - Roorkee

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

Lecture 1 - Introduction to Structure, Form and Architecture
Lecture 2 - Relationship of Structure to Architectural Buildings - Part I
Lecture 3 - Relationship of Structure to Architectural Buildings - Part II
Lecture 4 - Loads on Structures
Lecture 5 - Synthesis of Architectural and Structural Form
Lecture 6 - Connecting Structure and Architecture - Part I
Lecture 7 - Connecting Structure and Architecture - Part II
Lecture 8 - Structural Transformation in Architectural History
Lecture 9 - Factors affecting the Structural Forms
Lecture 10 - Learning from Animal's Architecture
Lecture 11 - Basic Structural Properties
Lecture 12 - Structural Requirements
Lecture 13 - Structural Arrangement
Lecture 14 - Structural Forms and Shapes
Lecture 15 - Structural Materials
Lecture 16 - Structural Typology
Lecture 17 - Compressive Structures
Lecture 18 - Tensile Structures
Lecture 19 - Load Bearing Structures
Lecture 20 - Temporary Structures
Lecture 21 - Framed Structure
Lecture 22 - Arch Structures
Lecture 23 - Vault Structures
Lecture 24 - Dome Structures
Lecture 25 - Grid Structures
Lecture 26 - Shell Structures
Lecture 27 - Trusses and Space Frames
Lecture 28 - Folded Plate Structures
Lecture 29 - Membrane Structures

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- Lecture 30 - Pneumatic Structures
- Lecture 31 - Structure and Architectural Forms in Windy Areas
- Lecture 32 - Structure and Architectural Forms in Seismic Prone Areas
- Lecture 33 - Structure and Architectural Forms in Flood Prone Areas
- Lecture 34 - Cost Effective Structure and Architecture
- Lecture 35 - Structure and Light in Architecture
- Lecture 36 - Evolution of Highrise Structural System
- Lecture 37 - Highrise Structural Components - Part I
- Lecture 38 - Highrise Structural Components - Part II
- Lecture 39 - Mega Structure and Architecture-Case Studies
- Lecture 40 - Architecture and Structure - Past, Present and Future