

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

NPTEL Video Course - Civil Engineering - NOC:Retrofitting and Rehabilitation of Civil Infrastructure

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Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Introduction
- Lecture 2 - Causes of Deterioration
- Lecture 3 - Materials Related Distresses
- Lecture 4 - Materials Related Distresses (Continued...)
- Lecture 5 - Other Distresses in Concrete
- Lecture 6 - Load Associated Distresses
- Lecture 7 - Identification of Distresses
- Lecture 8 - Semi-destructive Testing
- Lecture 9 - Non-destructive Tests
- Lecture 10 - Non-destructive Tests (Continued...)
- Lecture 11 - Other Tests
- Lecture 12 - Considerations for Repair and Retrofitting
- Lecture 13 - Repair Techniques
- Lecture 14 - Repair Techniques (Continued...)
- Lecture 15 - Repair Techniques (Continued...)
- Lecture 16 - Strengthening of Structural Components
- Lecture 17 - Strengthening of Structural Components (Continued...)
- Lecture 18 - Introduction to Composites, Types and Characteristics
- Lecture 19 - Properties of Fibers, Resins and FRP Composite
- Lecture 20 - Micromechanics of Composites
- Lecture 21 - Micromechanics of Composites (Continued...)
- Lecture 22 - Manufacturing of FRP Composites
- Lecture 23 - FRPC in Flexural Strengthening of Structural Members - I
- Lecture 24 - FRPC in Flexural Strengthening of Structural Members - II
- Lecture 25 - FRPC in Shear Strengthening of Structural Members
- Lecture 26 - FRPC in Axial Strengthening of Structural Members - I
- Lecture 27 - FRPC in Axial Strengthening of Structural Members - II
- Lecture 28 - Near Surface Mounted FRP Reinforcement
- Lecture 29 - FRPC in Strengthening of Beam-Column Joints

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- Lecture 30 - Anchorage Systems for FRP Strengthening
- Lecture 31 - Installation of FRP
- Lecture 32 - Design Considerations
- Lecture 33 - Design Approach for Flexural Strengthening
- Lecture 34 - Design of Flexural Strengthening
- Lecture 35 - Design Approach for Shear Strengthening
- Lecture 36 - Design of Shear Strengthening
- Lecture 37 - Design Approach for Axial Strengthening
- Lecture 38 - Design of Axial Strengthening
- Lecture 39 - Concepts of Concrete Overlay
- Lecture 40 - Distresses in Existing Pavement
- Lecture 41 - Evaluation of Pavement
- Lecture 42 - Design Considerations for Concrete Overlay
- Lecture 43 - Construction of Concrete Overlay
- Lecture 44 - Introduction
- Lecture 45 - Retrofitting Steps
- Lecture 46 - Review of Materials and Test Methods
- Lecture 47 - Review of Analysis Method
- Lecture 48 - Some aspects of Seismic Retrofitting
- Lecture 49 - Introduction
- Lecture 50 - A Few Retrofitting Techniques
- Lecture 51 - A Few Seismic Retrofitting Techniques
- Lecture 52 - Introduction
- Lecture 53 - Retrofitting steps and Techniques
- Lecture 54 - Retrofitting Techniques for Structural Elements
- Lecture 55 - Retrofitting Techniques for structural elements (Continued...)
- Lecture 56 - Retrofitting Techniques for structural elements (Continued...)
- Lecture 57 - Retrofitting Techniques for structural elements (Continued...)
- Lecture 58 - Seismic Strengthening of structural elements
- Lecture 59
- Lecture 60
- Lecture 61
- Lecture 62
- Lecture 63