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

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NPTEL Video Course - Civil Engineering - Concrete Engineering and Technology
Subject Co-ordinator - Dr. Sudhir Misra
Co-ordinating Institute - IIT - Kanpur
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction and course overview
Lecture 2 - Constituents of concrete - Part 1 of 2
Lecture 3 - Constituents of concrete - Part 2 of 2
Lecture 4 - Admixtures in concrete â mineral and chemical
Lecture 5 - Hydration of cement
Lecture 6 - Basic properties of concrete
Lecture 7 - Proportioning of concrete mixes - Part 1 of 3
Lecture 8 - Proportioning of concrete mixes - Part 2 of 3
Lecture 9 - Proportioning of concrete mixes - Part 3 of 3
Lecture 10 - Pores and porosity in concrete
Lecture 11 - Porosimetry â measuring pores in concrete
Lecture 12 - Principles of quality control in concrete construction
Lecture 13 - Quality control and acceptance criteria for concrete based on compressive strength
Lecture 14 - Fibre reinforced concrete
Lecture 15 - High strength concrete
Lecture 16 - Mass concrete - Part 1 of 2
Lecture 17 - Mass concrete - Part 2 of 2
Lecture 18 - Concreting in cold weather
Lecture 19 - Concreting in hot weather
Lecture 20 - Roller compacted concrete
Lecture 21 - Self-compacting concrete
Lecture 22 - Testing self-compacting concrete
Lecture 23 - Shotcrete and underwater concrete
Lecture 24 - Alkali â aggregate reaction - Part 1 of 2
Lecture 25 - Alkali â aggregate reaction - Part 2 of 2
Lecture 26 - Reinforcement corrosion in concrete
Lecture 27 - Chloride penetration in concrete
Lecture 28 - Using epoxy-coated bars in concrete structures
Lecture 29 - Using FRP as reinforcement in concrete structures - Part 1 of 2
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Lecture 30 - Using FRP as reinforcement in concrete structures - Part 2 of 2
Lecture 31 - Grouting and importance of formwork in concrete construction
Lecture 32 - Carbonation and freezing & thawing in concrete structures
Lecture 33 - Using recycled aggregates in concrete construction
Lecture 34 - Basic non-destructive testing for concrete structures
Lecture 35 - Measuring permeability in concrete
Lecture 36 - Some additional topics
Lecture 37 - Considerations in repair of concrete structures - Part 1 of 2
Lecture 38 - Considerations in repair of concrete structures - Part 2 of 2
Lecture 39 - Laboratory demonstration
Lecture 40 - Review of the course