

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

NPTEL Video Course - Civil Engineering - Concrete Technology

Subject Co-ordinator - Dr. B. Bhattacharjee

Co-ordinating Institute - IIT - Delhi

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

Lecture 1 - Production and Composition
Lecture 2 - Structure and Hydration
Lecture 3 - Structure and Hydration
Lecture 4 - Properties and Tests
Lecture 5 - Types and Use
Lecture 6 - Aggregates (Size, Shape)
Lecture 7 - Packing, FM, SM
Lecture 8 - Properties
Lecture 9 - Chemical Admixtures
Lecture 10 - Chemical Admixtures
Lecture 11 - Mineral Admixtures
Lecture 12 - Mineral Admixtures
Lecture 13 - Mineral Admixtures
Lecture 14 - Mix Proportioning of Concrete
Lecture 15 - Mix design of Concrete
Lecture 16 - Mix Design of Concrete
Lecture 17 - Mix Design of concrete
Lecture 18 - Mix Design of concrete
Lecture 19 - Batching and Mixing of concrete
Lecture 20 - RMC and Transporting Concrete
Lecture 21 - Workability and Pumping of Concrete
Lecture 22 - Compaction and Curing Concrete
Lecture 23 - Strength of Concrete
Lecture 24 - Strength of Concrete
Lecture 25 - Strength of Concrete
Lecture 26 - Mechanical Properties of Concrete
Lecture 27 - Creep of Concrete
Lecture 28 - Creep and Shrinkage of Concrete
Lecture 29 - Shrinkage of Concrete

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- Lecture 30 - Shrinkage of Concrete
- Lecture 31 - Fundamental Concepts, Degradation Process, Attacks
- Lecture 32 - Frost Action and Rebar Corrosion
- Lecture 33 - Carbonation and Chloride Affect
- Lecture 34 - Rebar Corrosion
- Lecture 35 - Rebar Corrosion and General Strategy
- Lecture 36 - High Strength Concrete
- Lecture 37 - High Strength Matrics and SCC
- Lecture 38 - Self Compacting Concrete
- Lecture 39 - Fiber Concrete
- Lecture 40 - Fiber and Roller Compacted Concrete
- Lecture 41 - Special Concrete and Sustainability