

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

NPTEL Video Course - Civil Engineering - Transportation Engineering II

Subject Co-ordinator - Prof. Rajat Rastogi

Co-ordinating Institute - IIT - Roorkee

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

Lecture 1 - Introduction to Railway Engineering
Lecture 2 - Gauges and Permanent Way
Lecture 3 - Wheel and Axles, Coning of Wheels
Lecture 4 - Track Resistances, Hauling Capacity
Lecture 5 - Track Modulus, Stresses in Track
Lecture 6 - Stresses in Components of Track
Lecture 7 - Rails
Lecture 8 - Creep in Rails
Lecture 9 - Wears & Failures in Rails
Lecture 10 - Jointed or Welded rails
Lecture 11 - Sleepers
Lecture 12 - Ballast
Lecture 13 - Fastenings
Lecture 14 - Geometric Design - Alignment of Track
Lecture 15 - Horizontal Curve and Super elevation
Lecture 16 - Speeds on Track
Lecture 17 - Transition Curve & Widening of Track
Lecture 18 - Vertical Curve & Gradients
Lecture 19 - Turnouts - Components
Lecture 20 - Crossing and Design of Turnout
Lecture 21 - Track Junctions and Designs
Lecture 22 - Signals - Part 1
Lecture 23 - Signals - Part 2
Lecture 24 - Train Control Systems
Lecture 25 - Interlocking of Track
Lecture 26 - High Speed Tracks
Lecture 27 - Introduction of Air Transport
Lecture 28 - Aircraft Characteristics
Lecture 29 - Aircraft Controls, Airport Site&Size Selection

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- Lecture 30 - Airport Obstructions
- Lecture 31 - Runway Orientation
- Lecture 32 - Runway Length
- Lecture 33 - Runway Geometric
- Lecture 34 - Taxiway
- Lecture 35 - Exit Taxiway
- Lecture 36 - Aprons and Aircraft Parking
- Lecture 37 - Terminal Area and Building
- Lecture 38 - Terminal Planning and Hangers
- Lecture 39 - Visual Aids-Markings
- Lecture 40 - Visual Aids-Lighting and Signage