

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

NPTEL Video Course - Civil Engineering - NOC:River Engineering

Subject Co-ordinator - Dr. Subhashisa Dutta

Co-ordinating Institute - IIT - Guwahati

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

Lecture 1 - Introduction to River Engineering
Lecture 2 - Basic properties of sediment - I
Lecture 3 - Basic properties of sediment - II
Lecture 4 - Mass Conservation
Lecture 5 - Linear Momentum Equation
Lecture 6 - Navier-Stokes Equations
Lecture 7 - St. Venant Equation and Solver
Lecture 8 - Specific Energy and Critical Flow
Lecture 9 - Hydraulic Jump and Celerity
Lecture 10 - Floodwave Celerity and Loop Rating Curve
Lecture 11 - Sediment Transport in River - I
Lecture 12 - Sediment Transport in River - II
Lecture 13 - Sediment Transport in River - III
Lecture 14 - Physical River Models
Lecture 15 - Bridge Scour
Lecture 16 - Bridge Scour-II
Lecture 17 - Jet Scour and River Navigation
Lecture 18 - River Training Work
Lecture 19 - Riverbank Stabilization - I
Lecture 20 - Riverbank Stabilization - II
Lecture 21 - Riverbank Protection and Control Structures
Lecture 22 - River Equilibrium - I
Lecture 23 - River Equilibrium - II
Lecture 24 - River Equilibrium - III