

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

NPTEL Video Course - Agriculture - NOC:Soil and Water Conservation Engineering

Subject Co-ordinator - Prof. Rajendra Singh

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Introduction
- Lecture 2 - Soil erosion causes and types
- Lecture 3 - Factors affecting soil erosion and effects of soil erosion
- Lecture 4 - Soil erosion - Mechanics
- Lecture 5 - Water erosion control measures
- Lecture 6 - Soil loss estimation
- Lecture 7 - Erosivity and Erodibility
- Lecture 8 - Modification in Universal soil loss equation - Part I
- Lecture 9 - Modification in Universal soil loss equation - Part II
- Lecture 10 - Soil loss measurement
- Lecture 11 - Bunds - Introduction
- Lecture 12 - Contour Bunds
- Lecture 13 - Problems on Contour Bunds
- Lecture 14 - Graded Bunds
- Lecture 15 - Problems on Graded Bunds
- Lecture 16 - Terrace - Introduction
- Lecture 17 - Bench Terraces
- Lecture 18 - Problems on Bench Terraces
- Lecture 19 - Broad-base Terraces
- Lecture 20 - Problems on Broad-base Terraces
- Lecture 21 - Grassed Waterways
- Lecture 22 - Problems on Grassed Waterways
- Lecture 23 - Parabolic Grassed Waterways
- Lecture 24 - GATE Questions on Various Topics Covered
- Lecture 25 - Introduction-Gully Control Measures
- Lecture 26 - Gully Control Measures (Permanent Structures)
- Lecture 27 - Design Considerations- Permanent Gully Control Structures
- Lecture 28 - Basics of Open Channel Hydraulics - 1
- Lecture 29 - Basics of Open Channel Hydraulics - 2

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- Lecture 30 - Hydraulic Design of Drop Spillway
- Lecture 31 - Hydraulic Design of drop Spillway in different Flow Conditions
- Lecture 32 - Hydraulic Design Components
- Lecture 33 - Structural Design of Drop Spillway - 1
- Lecture 34 - Structural Design of Drop Spillway - 2
- Lecture 35 - Structural Design of Drop Spillway - 3
- Lecture 36 - Structural Design of Drop Spillway - 4
- Lecture 37 - GATE Question
- Lecture 38 - Drop Inlet Spillway
- Lecture 39 - Drop Inlet Spillway (Continued...)
- Lecture 40 - Introduction-Drop Inlet Spillway
- Lecture 41 - Drop Inlet Spillway Design - I
- Lecture 42 - Numerical Problems
- Lecture 43 - Ogee Spillway
- Lecture 44 - Chute Spillway
- Lecture 45 - Chute Spillway Design - I
- Lecture 46 - Chute Spillway Design - II
- Lecture 47 - Energy Dissipation
- Lecture 48 - Wind Erosion and Control Basics
- Lecture 49 - Design of Wind Breaks
- Lecture 50 - Design of Shelterbelts
- Lecture 51 - Formation of Sand Dunes
- Lecture 52 - Stabilization of Sand Dunes
- Lecture 53 - Land Capability Classes
- Lecture 54 - Improving Land Capability
- Lecture 55 - Sediment and Its Transportation
- Lecture 56 - Sediment Sampling