NPTEL Video Course - Agriculture - NOC:Watershed Hydrology

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 - Precipitation
Lecture 3 - Rainfall data analysis - I
Lecture 4 - Rainfall data analysis - II
Lecture 5 - Rainfall Frequency Analysis
Lecture 6 - Hydrological Abstractions
Lecture 7 - Evaporation
Lecture 8 - Evapotranspiration
Lecture 9 - Infiltration - I
Lecture 10 - Infiltration - II
Lecture 11 - Streamflow Processes
Lecture 12 - Streamflow Measurement - 1
Lecture 13 - Streamflow Measurement - 2
Lecture 14 - Streamflow Measurement - 3
Lecture 15 - Flow Duration Curve and Flow Mass Curve
Lecture 16 - Runoff
Lecture 17 - Estimation of Runoff
Lecture 18 - Estimation of Runoff - Rational Method
Lecture 19 - Estimation of Runoff - SCS-Curve Number Method
Lecture 20 - Numerical on Estimation of Runoff
Lecture 21 - Hydrograph - I
Lecture 22 - Hydrograph - II
Lecture 23 - Derivation of Unit Hydrograph - I
Lecture 24 - Derivation of Unit Hydrograph - II
Lecture 25 - Numerical on Hydrograph
Lecture 26 - Synthetic Unit Hydrograph - I
Lecture 27 - Synthetic Unit Hydrograph - II
Lecture 28 - IUH and Distribution Graph
Lecture 29 - Numerical on Synthetic UH, IUH and Distribution Graph - I

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Lecture 30 - Numerical on Synthetic UH, IUH and Distribution Graph - II
Lecture 31 - Drainage Basin Characteristics
Lecture 32 - Drainage Basin Geomorphology
Lecture 33 - Morphometric analysis using RS and GIS
Lecture 34 - Watershed Management - I
Lecture 35 - Watershed Management - II
Lecture 36 - Hydrological Modelling: Introduction and Protocol
Lecture 37 - Hydrological Models: Classification
Lecture 38 - Hydrological Model: Calibration, Validation and Evaluation
Lecture 39 - Sensitivity Analysis and Machine Learning in Hydrology
Lecture 40 - Machine Learning in Hydrology - II
Lecture 41 - Floods
Lecture 42 - Design Flood
Lecture 43 - Flood Frequency Analysis
Lecture 44 - Flood Control and Management
Lecture 45 - Floodplain Zoning and Numerical on Floods
Lecture 46 - Flood Routing: Introduction
Lecture 47 - Hydrologic Reservoir Routing
Lecture 48 - Hydrologic Channel Routing
Lecture 49 - Hydraulic Channel Routing - Hydraulic routing
Lecture 50 - Numerical on Flood Routing
Lecture 51 - Drought: Introduction
Lecture 52 - Classification of Drought
Lecture 53 - Agricultural Drought - I
Lecture 54 - Agricultural Drought - II
Lecture 55 - Drought Management
Lecture 56 - Hydrological Model Demonstration
Lecture 57 - Miscellaneous Topics
Lecture 58 - Objectives on Watershed Hydrology
Lecture 59 - Objectives on Watershed Hydrology
Lecture 60 - Solution of Numerical Problems in Assignments
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