

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

NPTEL Video Course - Agriculture - NOC:Soil Science and Technology

Subject Co-ordinator - Prof. Somsubhra Chakraborty

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Basic Overview of Soil
Lecture 2 - Weathering and Soil Formation
Lecture 3 - Weathering and Soil Formation (Continued...)
Lecture 4 - Weathering and Soil Formation (Continued...)
Lecture 5 - Weathering and Soil Formation (Continued...)
Lecture 6 - Soil Taxonomy and Classification
Lecture 7 - Soil Taxonomy and Classification (Continued...)
Lecture 8 - Soil Taxonomy and Classification (Continued...)
Lecture 9 - Soil Orders, Soil Colour and Texture
Lecture 10 - Soil Texture and Structure
Lecture 11 - Soil Tillage and Soil Density
Lecture 12 - Soil Porosity and Consistency
Lecture 13 - Soil Consistency and Soil Water
Lecture 14 - Soil Water
Lecture 15 - Tutorial
Lecture 16 - Soil Water Movement
Lecture 17 - Qualitative Description of Soil Wetness
Lecture 18 - Soil Air
Lecture 19 - Soil Temperature
Lecture 20 - Tutorial
Lecture 21 - Silicate Clays
Lecture 22 - Silicate Clays (Continued...)
Lecture 23 - Sources of Charges in Soil
Lecture 24 - Cation Exchange Capacity (CEC)
Lecture 25 - Sorption of Pesticides
Lecture 26 - Diffuse Double Layer
Lecture 27 - Adsorption Isotherms
Lecture 28 - Soil Acidity
Lecture 29 - Soil Salinity and Alkalining

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- Lecture 30 - Submerged Soils
- Lecture 31 - Essential Plant Nutrients
- Lecture 32 - Soil N
- Lecture 33 - Biological N Fixation
- Lecture 34 - Soil P and K
- Lecture 35 - Fertilizers
- Lecture 36 - Soil Testing - I
- Lecture 37 - Soil Testing - II
- Lecture 38 - Soil Organic Matter
- Lecture 39 - Soil Organisms
- Lecture 40 - Compost
- Lecture 41 - Land Degradation and Soil Erosion
- Lecture 42 - Universal Soil Loss Equation
- Lecture 43 - Conservation Tillage
- Lecture 44 - Wind Erosion and Tillage Erosion
- Lecture 45 - Organic Pollutants in Soil
- Lecture 46 - Remediation of Organic Pollutant
- Lecture 47 - Toxic Inorganic Substances in Soil
- Lecture 48 - Removal of Toxic Inorganic Substances
- Lecture 49 - Soil Survey
- Lecture 50 - Remote Sensing in Soil Survey
- Lecture 51 - GIS and GPS
- Lecture 52 - Geostatistics
- Lecture 53 - Basics of VisNIR - DRS
- Lecture 54 - VisNIR-DRS Applications for Soil
- Lecture 55 - PXRF Soil Applications
- Lecture 56 - Basic Overview of DSM
- Lecture 57 - Modeling Continuous Variables
- Lecture 58 - Modeling Continuous Variables (Continued...)
- Lecture 59 - Modeling Categorical Variables
- Lecture 60 - Pedotransfer Functions and Uncertainty of DSM