

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

NPTEL Video Course - Environmental Science - NOC:Environmental Geosciences

Subject Co-ordinator - Prof. Prasoon Kumar Singh

Co-ordinating Institute - IIT-ISM Dhanbad

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

Lecture 1 - Introduction to the Origin of the Earth
Lecture 2 - Internal Structure of the Earth
Lecture 3 - Concept of Atmosphere and their Constituents
Lecture 4 - Concept of Hydrosphere, Lithosphere and their Constituents
Lecture 5 - Concept of Plate Tectonics
Lecture 6 - Summary of Module 1
Lecture 7 - Types of Weathering
Lecture 8 - Erosion and Transportation
Lecture 9 - Geological Work of Wind
Lecture 10 - Geological Work of River
Lecture 11 - Geological Work of Glaciers
Lecture 12 - Summary of Module 2
Lecture 13 - Dip, Strike, Folds and Fault its Environmental interpretation
Lecture 14 - Geological Hazards - Earthquake
Lecture 15 - Geological Hazards - Volcanoes
Lecture 16 - Geological Hazards - Floods
Lecture 17 - Geological Hazards - Landslides
Lecture 18 - Summary of Module 3
Lecture 19 - Crystals and its Characteristics
Lecture 20 - Crystal Systems - Different Crystal Classes
Lecture 21 - Concept of Mineral and its Properties
Lecture 22 - Properties of Common Silicate Minerals
Lecture 23 - Properties of Common Sulphide and Oxide Minerals
Lecture 24 - Summary of Module 4
Lecture 25 - Concept of Rocks
Lecture 26 - Magma and its Composition and Constitution
Lecture 27 - Description of Common Igneous Rocks
Lecture 28 - Description of Common Sedimentary Rocks
Lecture 29 - Description of Common Metamorphic Rocks

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- Lecture 30 - Distribution of Water on Earth
- Lecture 31 - Groundwater Provinces of India
- Lecture 32 - Hydrological Cycle
- Lecture 33 - Aquifer-its Types
- Lecture 34 - Porosity and Permeability
- Lecture 35 - Law of Groundwater Movement - Darcy's Law and Applications - Part 1
- Lecture 36 - Law of Groundwater Movement - Darcy's Law and Applications - Part 2
- Lecture 37 - Law of Groundwater Movement - Darcy's Law and Applications - Part 3
- Lecture 38 - Groundwater Fluctuations
- Lecture 39 - Pollution of Groundwater Resources
- Lecture 40 - Indian Stratigraphy and Archaean Group
- Lecture 41 - Various Stratigraphic Units of India: Pre-Cambrian Group, Paleozoic Group and Features
- Lecture 42 - Various Stratigraphic Units of India: Mesozoic Group and its Features
- Lecture 43 - Various Stratigraphic Units of India: Tertiary Group and Quaternary Group
- Lecture 44 - Fossils and Prehistoric Life: An Overview of Major Fossil Groups and Gondwana Flora
- Lecture 45 - Process of Soil Formation
- Lecture 46 - Soil Classification
- Lecture 47 - Impact of Soil Erosion
- Lecture 48 - Physical Properties of Soil
- Lecture 49 - Chemical Properties of Soil
- Lecture 50 - Fossils Fuels
- Lecture 51 - Fossils Fuels - Coal
- Lecture 52 - Fossils Fuels - Petroleum
- Lecture 53 - Fossils Fuels - Natural gas
- Lecture 54 - Conservation of Non-Renewable Energy
- Lecture 55 - Geochemical Classification of Elements
- Lecture 56 - Geochemical Classification of Elements: Interaction of Geochemical Cycles
- Lecture 57 - Geophysical Methods, Gravity Methods
- Lecture 58 - Geophysical Methods: Magnetic Methods
- Lecture 59 - Geophysical Methods: Electrical Methods
- Lecture 60 - Remote Sensing
- Lecture 61 - Geographic Information System
- Lecture 62 - Applications of Remote Sensing and Applications of GIS
- Lecture 63 - Impact of Climate Change on Water Resources - Part 1
- Lecture 64 - Impact of Climate Change on Water Resources - Part 2

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NPTEL Video Course - Environmental Science - NOC:Climate Change Science

Subject Co-ordinator - Prof. J.Srinivasan

Co-ordinating Institute - IISc - Bangalore

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

Lecture 1 - Introduction
Lecture 2 - Global Mean Temperature
Lecture 3 - Blackbody Radiation
Lecture 4 - Properties of Real Surfaces
Lecture 5 - Planetary Albedo
Lecture 6 - Simple Energy Balance Model
Lecture 7 - Multiple-Equilibrium States
Lecture 8 - General Circulation Models
Lecture 9 - Feedbacks in the Climate System
Lecture 10 - Feedback Analysis
Lecture 11 - Cloud Feedbacks
Lecture 12 - Cloud Feedbacks (Continued...)
Lecture 13 - Radiative transfer in gases
Lecture 14 - Radiative Transfer (Continued...)
Lecture 15 - Radiative Transfer (Continued...)
Lecture 16 - Global warming potential
Lecture 17 - Ozone depletion
Lecture 18 - Ozone depletion (Continued...)
Lecture 19 - Montreal Protocol
Lecture 20 - Two-layer model
Lecture 21 - Meridional variation
Lecture 22 - Paleoclimate
Lecture 23 - Paleoclimate (Continued...)
Lecture 24 - Last ice age
Lecture 25 - Last ice age
Lecture 26 - Atlantic meridional ocean circulation
Lecture 27 - Simulation of AMOC
Lecture 28 - Simulation of AMOC (Continued...)
Lecture 29 - AMOC during deglaciation

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- Lecture 30 - Dansgaard-Oeschger events
- Lecture 31 - Theory of Ice ages
- Lecture 32 - Milankovitch Theory
- Lecture 33 - Milankovitch Theory (Continued...)
- Lecture 34 - Milankovitch Theory (Continued...)
- Lecture 35 - Stochastic resonance
- Lecture 36 - Glacial to interglacial transition
- Lecture 37 - Simulation of Glacial to interglacial
- Lecture 38 - Simulation of glacial to interglacial
- Lecture 39 - Snowball earth
- Lecture 40 - Snowball earth (Continued...)
- Lecture 41 - Simulation of snowball earth
- Lecture 42 - Snowball earth cycle
- Lecture 43 - Impact of aerosols on climate
- Lecture 44 - Relative roles of CO₂ and aerosols
- Lecture 45 - Kyoto Protocol
- Lecture 46 - climate models
- Lecture 47 - Approximations in climate models
- Lecture 48 - How good is the model simulation
- Lecture 49 - Model biases
- Lecture 50 - The impact of model resolution
- Lecture 51 - Cascade of uncertainty
- Lecture 52 - Extreme events
- Lecture 53 - Humid heat waves
- Lecture 54 - Extreme rainfall
- Lecture 55 - Monsoons
- Lecture 56 - Simulation of monsoon
- Lecture 57 - Why is Venus hot ?
- Lecture 58 - Venus energy balance
- Lecture 59 - Denial of global warming
- Lecture 60 - Wrap up