

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