

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

NPTEL Video Course - Mining Engineering - Fundamentals of Environmental Pollution and Control

Subject Co-ordinator - Prof. J. Bhattacharyya

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - State of the Environment
- Lecture 2 - Environmental Movement
- Lecture 3 - Definitions of Environmental Terms
- Lecture 4 - Water Pollutants
- Lecture 5 - Water Pollutants (Continued...)
- Lecture 6 - Water Pollution Modelling-Surface Water
- Lecture 7 - Water Pollution Modelling-Surface Water(Continued...)
- Lecture 8 - BOD Modelling - Part 1
- Lecture 9 - BOD Modelling - Part 2
- Lecture 10 - Oxygen Demanding Waste in Streams - Part 1
- Lecture 11 - Oxygen Demanding Waste in Streams - Part 2
- Lecture 12 - Ground Water and its Contamination
- Lecture 13 - Ground Water and its Contamination (Continued...)
- Lecture 14 - Ground Water and its Contamination (Continued...)
- Lecture 15 - Waste Water Treatment
- Lecture 16 - Wastewater Treatment (Continued...)
- Lecture 17 - Wastewater Treatment (Continued...)
- Lecture 18 - Chemical Treatment
- Lecture 19 - Wetland Treatment and Bio-Technology Applications
- Lecture 20 - Introduction to Soil
- Lecture 21 - Parameters to Soil for Vegetative Growth
- Lecture 22 - Parameters to Soil for Vegetative Growth (Continued...)
- Lecture 23 - Soil Acidity
- Lecture 24 - Soil Erosion
- Lecture 25 - Mechanical Soil Erosion Control
- Lecture 26 - Soil Erosion Prediction
- Lecture 27 - Universal Soil Loss Equation
- Lecture 28 - Air Pollutants
- Lecture 29 - Health Effects of Air Pollutants - Part 1

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- Lecture 30 - Health Effects of Air Pollutants - Part 2
- Lecture 31 - Air Pollutants and Meteorology - Part 1
- Lecture 32 - Air Pollutants and Meteorology - Part 2
- Lecture 33 - The Point-Source Gaussian Plume Model
- Lecture 34 - Ground Level Concentration
- Lecture 35 - Emission Control
- Lecture 36 - EIA, EMP & EA

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

NPTEL Video Course - Mining Engineering - NOC:Drilling and Blasting Technology

Subject Co-ordinator - Prof. Kaushik Dey

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Introduction to Drilling Technology
Lecture 2 - Introduction to Blasting Technology
Lecture 3 - Rock Formation
Lecture 4 - Rock Formation (Continued...)
Lecture 5 - Rock Formation (Continued...)
Lecture 6 - Rock Properties and Testing - 1
Lecture 7 - Rock Properties and Testing - 2
Lecture 8 - Drilling Mechanism
Lecture 9 - Drillability of Rock
Lecture 10 - Drilling Machines - 1
Lecture 11 - Drilling Machines - 2
Lecture 12 - Drilling Pattern - 1
Lecture 13 - Drilling Pattern - 2
Lecture 14 - Special Drilling Methods - I
Lecture 15 - Special Drilling Methods - II
Lecture 16 - Explosives - 1
Lecture 17 - Explosives - 2
Lecture 18 - Explosives accessories - 1
Lecture 19 - Explosives accessories - 2
Lecture 20 - Explosives accessories - 3
Lecture 21 - Explosives properties - 1
Lecture 22 - Explosives properties - 2
Lecture 23 - Explosives properties - 3
Lecture 24 - Basics of blasting - 1
Lecture 25 - Basics of blasting - 2
Lecture 26 - Explosive storage and transportation - 1
Lecture 27 - Explosive storage and transportation - 2
Lecture 28 - Surface blasting - 1
Lecture 29 - Surface blasting - 2

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- Lecture 30 - Surface blast design
- Lecture 31 - Underground blast design - 1
- Lecture 32 - Underground blast design - 2
- Lecture 33 - Blasting results - 1
- Lecture 34 - Blasting results - 2
- Lecture 35 - Blasting results - 3
- Lecture 36 - Blasting results - 4
- Lecture 37 - Problems - 1
- Lecture 38 - Problems - 2
- Lecture 39 - Problems - 3
- Lecture 40 - Problems - 4

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

NPTEL Video Course - Mining Engineering - NOC:Network Analysis for Mines and Mineral Engineering

Subject Co-ordinator - Prof. Kaushik Dey

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Introduction to Network Analysis
- Lecture 2 - Introduction to network and some terminology
- Lecture 3 - Construction of network
- Lecture 4 - Introduction to activity on node diagram and comparison with arrow diagram
- Lecture 5 - Rules of dummy job, redundancy and cycles
- Lecture 6 - Critical path and its calculation
- Lecture 7 - Algorithm for critical path early start and early finish times
- Lecture 8 - Late start and late finish times algorithm
- Lecture 9 - Understanding the slack
- Lecture 10 - Examples of slacks and calculation of AON network
- Lecture 11 - Project due dates and earliest completion time examples
- Lecture 12 - CPM model and cost modelling
- Lecture 13 - Lowest cost schedule and optimum schedule
- Lecture 14 - Crashing and stretching of jobs
- Lecture 15 - Crashing and stretching of jobs (Continued...)
- Lecture 16 - Introduction to PERT
- Lecture 17 - Expected length of critical path calculation with examples
- Lecture 18 - Probability of completion of a project
- Lecture 19 - Event oriented project management
- Lecture 20 - Algorithm and computer program

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

NPTEL Video Course - Mining Engineering - NOC: Mining Machinery

Subject Co-ordinator - Prof. Khanindra Pathak

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Introduction to Mining Machinery - Part A
- Lecture 2 - Introduction to Mining Machinery - Part B
- Lecture 3 - Introduction to Machine Elements
- Lecture 4 - Mechanical Transmission of Power
- Lecture 5 - Shafts, Pulleys, Gears, and Geartrains Bearing and Brakes
- Lecture 6 - Belt Drives, Chain Drives
- Lecture 7 - Prime Movers
- Lecture 8 - Fluid Power for Mining Machinery
- Lecture 9 - Pneumatic Power for Mining Machinery
- Lecture 10 - Steel Wire Rope : Types and Basic Calculation
- Lecture 11 - Steel Wire Rope Maintenance
- Lecture 12 - Principle of Rock - Tool Interaction
- Lecture 13 - Site and Rock Preparation Equipment : Dozer Ripper
- Lecture 14 - Site and Rock Preparation Equipment : Ripper
- Lecture 15 - Drilling Machines for Mining
- Lecture 16 - Site and Rock Preparation Equipment : Scraper
- Lecture 17 - Site and Rock Preparation Equipment : Motor Grader
- Lecture 18 - Surface Mining Machinery : Machinery for Cyclic Excavation : Electric Rope Shovel
- Lecture 19 - Surface Mining Machinery : Machinery for Cyclic Excavation : Hydraulic Excavators and Back Hoe
- Lecture 20 - Surface Mining Machinery : Machinery for Cyclic Excavation : Front End Loader
- Lecture 21 - Surface Mining Machinery : Machinery for Cyclic Excavation : Dragline
- Lecture 22 - Surface Mining Machinery : Machinery for Continuous Excavation : Bucket Wheel Excavator
- Lecture 23 - Surface Mining Machinery : Machinery for Continuous Excavation : Bucket Chain Excavators
- Lecture 24 - Surface Mining Machinery : Machinery for Continuous Excavation : Continuous Surface Miner
- Lecture 25 - Surface Mining Machinery : Machinery for Continuous Excavation : Dredger
- Lecture 26 - Underground Mining Machinery Loaders : Gathering Arm Loader
- Lecture 27 - Underground Mining Machinery Loaders : Rocker Shovel and Side Discharge Loader
- Lecture 28 - Underground Mining Machinery Loaders : Load Haul Dump (LHD) Loader
- Lecture 29 - Underground Mining Machinery : Road Header

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- Lecture 30 - Underground Mining Machinery Underground Drills and Roof Bolter
- Lecture 31 - Underground Mining Machinery Continuous Miner
- Lecture 32 - Underground Mining Machinery Shuttle Car
- Lecture 33 - Longwall Mining Machinery Shearer
- Lecture 34 - Longwall Mining Machinery Armored Face Conveyor
- Lecture 35 - Longwall Mining Machinery Power Support
- Lecture 36 - Mine Pumps
- Lecture 37 - Mine Pumps : Special Pumps
- Lecture 38 - Basic Pumping Theory
- Lecture 39 - Air Compressor
- Lecture 40 - Fans for Mining
- Lecture 41 - Transportation Machinery for Surface Mines
- Lecture 42 - Automobiles in Mines and Mining Truck
- Lecture 43 - Off-highway Trucks
- Lecture 44 - Off-highway Trucks : Rimpull Curves and Tires
- Lecture 45 - Off-highway Trucks : Performance
- Lecture 46 - Belt Conveyor
- Lecture 47 - Belt Conveyor Design Criteria
- Lecture 48 - Power Requirements for Belt Conveyor
- Lecture 49 - Belt Conveyor Maintenance
- Lecture 50 - Aerial Rope Ways
- Lecture 51 - Machinery for Underground Mine Transport
- Lecture 52 - Endless Rope Haulage
- Lecture 53 - Rope Haulage in Underground Mines
- Lecture 54 - Locomotive
- Lecture 55 - Equipment for Shaft : Winding Machines
- Lecture 56 - Mechanics of Hoisting
- Lecture 57 - Low Profile Dumper
- Lecture 58 - Maintenance of Mining Machinery
- Lecture 59 - Maintenance Management Information System
- Lecture 60 - Non Destructive Testing