NPTEL Video Course - Multi Disciplinary - NOC:Sustainable Mining and Geoinformation

Subject Co-ordinator - Prof. B. K. Prusty, Prof. M. D. Behera

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Fundamental of geoinformation
Lecture 2 - Optical remote sensing
Lecture 3 - LiDAR Remote Sensing
Lecture 4 - Microwave remote sensing
Lecture 5 - Thermal/Column Concentration
Lecture 6 - Geographic Information System (GIS)
Lecture 7 - Global Navigation Satellite System (GNSS)
Lecture 8 - 3-Dimentional Terrain Modeling
Lecture 9 - Cloud Computing
Lecture 10 - Internet of Things (IoT)
Lecture 11 - Exploration Mapping
Lecture 12 - Environmental Management
Lecture 13 - Restoration Monitoring
Lecture 14 - Contamination Mapping and Geo-Assessments
Lecture 15 - Volume Measurement and Geospatial Techniques
Lecture 16 - Subsidence Detection
Lecture 17 - Topographic and Slope Analysis
Lecture 18 - Disaster Management
Lecture 19 - Heat Detection and Monitoring
Lecture 20 - Gas and Particulate Matter Monitoring
Lecture 21 - Minerals, Mining and Society - I
Lecture 22 - Minerals, Mining and Society - II
Lecture 23 - Mining and Its Environmental Impacts - I
Lecture 24 - Mining and Its Environmental Impacts - II
Lecture 25 - Environmental Impact Assessment for Mining Projects - I
Lecture 26 - Environmental Impact Assessment for Mining Projects - II
Lecture 27 - Sustainable Development for Mining Industry - I
Lecture 28 - Sustainable Development for Mining Industry - II
Lecture 29 - SDF for Mining Industry - I

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Lecture 30 - SDF for Mining Industry - II
Lecture 31 - Fundamental: Geoinformation and SDGs in Mining
Lecture 32 - SDG 1 and 2 [No Poverty and Zero Hunger]
Lecture 33 - SDG 3, 4 and 5
Lecture 34 - SDG 6 [Clean Water and Sanitation]
Lecture 35 - SDG 7, 8 and 9
Lecture 36 - SDG 11
Lecture 37 - SDG 12, 13
Lecture 38 - SDG 14, 15, 17
Lecture 39 - Life Cycle and Associated Environmental Impacts
Lecture 40 - Sustainability Performance Monitoring
Lecture 41 - Land Acquisition and Rehabilitation and Resettlement Act - I
Lecture 42 - Land Acquisition and Rehabilitation and Resettlement Act - II
Lecture 43 - Land Acquisition, R and R Act - III
Lecture 44 - Mine Closure Plan - I
Lecture 45 - Mine Closure Plan - II
Lecture 46 - Challenges Towards SD In Mining Industry
Lecture 47 - Sustainable Development in Mining Legislation - NMP 2019
Lecture 48 - Sustainable Development in Mining Legislation - II
Lecture 49 - Life Cycle Analysis
Lecture 50 - Life Cycle Analysis for Mining Industry
Lecture 51 - Circular Economy for Mining Industry - I
Lecture 52 - Circular Economy for Mining Industry - II
Lecture 53 - Circular Economy for Mining Industry - III
Lecture 54 - Carbon footprints of mining industry
Lecture 55 - Net Zero and Decarbonisation of Mining Industry
Lecture 56 - Sustainability Reporting for Mining Industry - I
Lecture 57 - Sustainability Reporting for Mining Industry - II
Lecture 58 - Sustainability Assessment for Indian Mines
Lecture 59 - CSR for Sustainable Development
Lecture 60 - Sustainable Development in Mining Industry - Case Study
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