

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

NPTEL Video Course - Mining Engineering - NOC:Mine Automation and Data Analytics

Subject Co-ordinator - Prof. Radhakanta Koner

Co-ordinating Institute - IIT-ISM Dhanbad

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

- Lecture 1 - Introduction to Automation
- Lecture 2 - Principle of Automation and Strategies
- Lecture 3 - Elements of Automated System
- Lecture 4 - Elements of Automated System (Continued...)
- Lecture 5 - Autonomous Haulage System
- Lecture 6 - Autonomous Haulage System (Continued...)
- Lecture 7 - Automated Drilling System
- Lecture 8 - Automated Drilling System (Continued...)
- Lecture 9 - Fleet Management System
- Lecture 10 - Fleet Management System (Continued...)
- Lecture 11 - Introduction to CMMS
- Lecture 12 - Enterprise resource planning (ERP) system
- Lecture 13 - Remote operation and control center
- Lecture 14 - Remote operation and control center
- Lecture 15 - Proximity Sensors
- Lecture 16 - Proximity Sensors and Control System
- Lecture 17 - Sensing System: Radar Technology
- Lecture 18 - RFID in Mining Engineering
- Lecture 19 - Introduction to Geo-fencing
- Lecture 20 - CCD camera in Mine safety and management
- Lecture 21 - GNSS in Mining
- Lecture 22 - GNSS Case Studies - Part I
- Lecture 23 - GNSS Case Studies - Part II
- Lecture 24 - Image Processing and Analysis in Remote Sensing
- Lecture 25 - Basics of Digital Image Processing
- Lecture 26 - Automated communication and tracking technologies: Image processing
- Lecture 27 - Automated Communication and Tracking Technologies: SCADA
- Lecture 28 - SCADA and its Application in Mining
- Lecture 29 - Introduction to VR Systems

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- Lecture 30 - Virtual Reality Application in Mining
- Lecture 31 - Introduction to Augmented Reality (AR)
- Lecture 32 - Augmented Reality Application in Mining
- Lecture 33 - Introduction - I
- Lecture 34 - Introduction - II
- Lecture 35 - Introduction to Probability and its associated terms
- Lecture 36 - Introduction to Probability and its associated terms
- Lecture 37 - Discrete Random Variable - Part I
- Lecture 38 - Discrete Random Variable - Part II
- Lecture 39 - Continuous Random Variable - Part I
- Lecture 40 - Continuous Random Variable - Part II
- Lecture 41 - Hypothesis Testing - I
- Lecture 42 - Hypothesis Testing - II
- Lecture 43 - t-test
- Lecture 44 - Chi-Squared Test
- Lecture 45 - Introduction to Machine Learning
- Lecture 46 - Regression
- Lecture 47 - Logistic Regression
- Lecture 48 - K Nearest Neighbor
- Lecture 49 - Support Vector Machine
- Lecture 50 - Naïve Bayes Classifier
- Lecture 51 - Artificial Neural Networks
- Lecture 52 - K Means Clustering
- Lecture 53 - DBSCAN
- Lecture 54 - Principal Component Analysis (PCA)
- Lecture 55 - Application of Big Data Analytics in Mining
- Lecture 56 - Big Data and AI Used Cases
- Lecture 57 - Cognitive Maintenance in Mining
- Lecture 58 - Cognitive Maintenance Case Studies
- Lecture 59 - Introduction to Orebody Modelling and Mine Design
- Lecture 60 - Case studies on Orebody Modeling and Mine Design