

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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