NPTEL Video Course - Mathematics - NOC:Higher Engineering Mathematics

Subject Co-ordinator - Prof. P.N. Agarwal

Co-ordinating Institute - IIT - Roorkee

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

Lecture 1 - Symbolic Representation of Statements - I
Lecture 2 - Symbolic Representation of Statements - II
Lecture 3 - Tautologies and Contradictions
Lecture 4 - Predicates and Quantifires - I
Lecture 5 - Predicates and Quantifiers - II
Lecture 6 - Validity of Arguments
Lecture 7 - Language and Grammers - I
Lecture 8 - Language and Grammers - II
Lecture 9 - Language and Grammers - III
Lecture 10 - Finite- State Machines
Lecture 11 - Partially Ordered Sets - I
Lecture 12 - Partially Ordered Sets - II
Lecture 13 - Partially Ordered Sets - III
Lecture 14 - Lattices - I
Lecture 15 - Lattices - II
Lecture 16 - Lattices - III
Lecture 17 - Lattices - IV
Lecture 18 - Lattices - V
Lecture 19 - Boolean Algebra - I
Lecture 20 - Boolean Algebra - II
Lecture 21 - Boolean Algebra - III
Lecture 22 - Boolean Algebra - IV
Lecture 23 - Logic Gates
Lecture 24 - Karnaugh Map - I
Lecture 25 - Karnaugh Map - II
Lecture 26 - Various type of Graphs - I
Lecture 27 - Various types of Graphs - II
Lecture 28 - Paths and Connectivity
Lecture 29 - Subgraphs and Traversable Multigraphs

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Lecture 30 - Undirected and Directed Graphs
Lecture 31 - Eulerian and Hamiltonian Graphs
Lecture 32 - Planar Graphs
Lecture 33 - Representation of Graphs
Lecture 34 - Isomorphic and Homeomorphic Graphs
Lecture 35 - Kuratowski's Theorem
Lecture 36 - Dual of a Graph
Lecture 37 - Coloring of Graphs - I
Lecture 38 - Coloring of Graphs - II
Lecture 39 - Tree - I
Lecture 40 - Tree - II
Lecture 41 - Graphical Method - I
Lecture 42 - Graphical Method - II
Lecture 43 - General Linear Programming Problem
Lecture 44 - Simplex Method - I
Lecture 45 - Simplex Method - II
Lecture 46 - Big - M Method - I
Lecture 47 - Big - M Method - II (Special Cases)
Lecture 48 - Two Phase Method - I
Lecture 49 - Two Phase method - II
Lecture 50 - Duality - I
Lecture 51 - Duality - II
Lecture 52 - Dual Simplex Method
Lecture 53 - Transportation Problem - I
Lecture 54 - Transportation Problem - II
Lecture 55 - Assignment Problem - I
Lecture 56 - Assignment Problem - II
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