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

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NPTEL Video Course - Humanities and Social Sciences - Introduction to Logic
Subject Co-ordinator - Dr. A.V. Ravishankar Sarma
Co-ordinating Institute - IIT - Kanpur
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Identification of Arguments
Lecture 2 - Non-arguments
Lecture 3 - Types of Arguments
Lecture 4 - Nature and Scope of Deductive and Inductive Arguments
Lecture 5 - Truth, Validity and Soundness
Lecture 6 - Strength of Inductive arguments, Counter example method
Lecture 7 - Toulminâ s Model of Argumentation
Lecture 8 - Identification of Formal and Informal Fallacies
Lecture 9 - Informal Fallacies
Lecture 10 - Fallacies of Weak Induction and Fallacies arising out of ambiguity in Language
Lecture 11 - Introduction and motivation for Syllogistic Logic
Lecture 12 - Aristotle theory of Syllogisms - 1
Lecture 13 - Syllogistic Poem, Reduction of Syllogisms
Lecture 14 - Syllogistic Poem, Reduction of Syllogisms
Lecture 15 - Nature and Scope of Propositional Logic
Lecture 16 - Syntax of Propositional Logic
Lecture 17 - Logical Connectives
Lecture 18 - Truth Table Method
Lecture 19 - Semantic Tableaux Method for Propositional Logic
Lecture 20 - Knights and Knaves Puzzles
Lecture 21 - Semantic Tableaux Method
Lecture 22 - Natural Deduction Method
Lecture 23 - Natural Deduction
Lecture 24 - Conjunctive and Disjunctive Normal Forms
Lecture 25 - CNF, DNF and satisfiability and Validity
Lecture 26 - Resolution and refutation method
Lecture 27 - Resolution and refutation method
Lecture 28 - Axiomatic Propositional Logic
Lecture 29 - Hlbert Ackermann Axiomatic system
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Lecture 30 - Proofs in the PM system

Lecture 31 - Hilbert and Ackermann System

Lecture 32 - Outlines of Predicate Logic

Lecture 33 - Outlines of Predicate Logic

Lecture 34 - Building blocks of Predicate Logic

Lecture 35 - Quantifiers, freedom, bondage

Lecture 36 - Translation in to predicate Logic

Lecture 37 - Semantics of Predicate Logic

Lecture 38 - Truth, satisfiability, validity in Predicate Logic

Lecture 39 - Formation Trees for wffâ s in predicate Logic

Lecture 40 - Semantic Tableaux Method for Predicate Logic

Lecture 41 - Semantic Tableaux method

Lecture 42 - Natural Deduction in Predicate Logic

Lecture 43 - Important theorems in First order Logic

Lecture 44 - Limitations of first order logic and Introduction to the course
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