

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

NPTEL Video Course - Humanities and Social Sciences - NOC:Symbolic Logic

Subject Co-ordinator - Prof. Chhanda Chakraborti

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Introduction
- Lecture 2 - Propositions, Arguments, Components, Basic Characteristics
- Lecture 3 - Recognizing arguments, Diagramming logic flow
- Lecture 4 - Types of arguments, Deductive, Inductive, different norms to assess arguments
- Lecture 5 - Concepts of Validity Soundness, Consistency
- Lecture 6 - History of Symbolic Language
- Lecture 7 - Propositional Logic
- Lecture 8 - Connectives, Scope of Connectives
- Lecture 9 - Truth-functional Connectives, Propositional Variables, Propositional Constants
- Lecture 10 - Symbolization with Connectives
- Lecture 11 - Propositional Logic
- Lecture 12 - Using Truth Table
- Lecture 13 - Using Truth Table
- Lecture 14 - Shorter Truth Table
- Lecture 15 - Using Truth Table
- Lecture 16 - Introduction to Truth Trees
- Lecture 17 - Truth Tree Rules and their Application
- Lecture 18 - More on Truth-Tree Recovery of Partial Truth - Values
- Lecture 19 - Using the Truth Trees
- Lecture 20 - More on Truth Trees
- Lecture 21 - Formal Proof of Validity
- Lecture 22 - Valid Argument Forms
- Lecture 23 - How to Apply the Rules of Inference in a Proof
- Lecture 24 - Understanding the Rules
- Lecture 25 - Proofs with All Rules
- Lecture 26 - Completeness
- Lecture 27 - Indirect Proof
- Lecture 28 - Conditional Proof
- Lecture 29 - More on Conditional Proof

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- Lecture 30 - More on Derivations
- Lecture 31 - Limitation of Propositional Logic
- Lecture 32 - Basic 4 Types of Categorical Propositions
- Lecture 33 - Understanding Logical Relations in Standard Form Categorical Propositions
- Lecture 34 - Translating Non-Standard Propositions into Standard Form Categorical Propositions
- Lecture 35 - Validity and Invalidity of Syllogisms
- Lecture 36 - First Order Predicate Logic
- Lecture 37 - Quantifiers
- Lecture 38 - Scope of a Quantifier Edit Lesson
- Lecture 39 - Multiple Quantifiers
- Lecture 40 - Understanding Overlapping Quantifiers Sharing Predicates and Scope