Lecture 1 – Propositional Logic (Syntax and Semantics)

Types of formal logic:

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We are going to be studying:

* Propositional (and very little predicate) logic
* Syntax and semantics; validity and satisfaction
* Deductive systems
  + Natural deduction
* Decision procedures
  + Semantic tableaux
  + Resolution

General Syntax and its precedence:

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Semantics of propositional logic:

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Truth tables:

* Boolean Conjunction:

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* Boolean disjunction

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* Boolean implication

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Properties of a function:

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