

AI Syllabus

1	Introduction to Artificial Intelligence and its subjects
2	Application of Artificial Intelligence with some examples
3	Knowledge representation propositional calculus: Symbols and Sentences, propositional Semantics
4	Theorem Proving by Propositional Logic
5	predicate calculus: Syntax and Semantics
6	Using Inference Rules to Produce Predicate Calculus Expressions,
7	Unification of Expression Resolution in Propositional Logic
8	Robinson's Inference Rule, Theorem Proving in FOL with Resolution Principle, Different Types of Resolution
9	production rules
10	Network representation (Semantic nets and conceptual Graph
11	Knowledge representation : Frames and Scripts
12	Knowledge representation : Petri-net
13	First Exam
14	Dealing with Imprecision and Uncertainty
15	Prolog programming : Facts , Rules, Queries , with Examples
16	Prolog programming : Recursive programming, Lists. Arithmetic Expressions, with examples.
17	Prolog programming : Backtracking and Cuts, with examples.