

Semester-VI
Artificial Intelligence Laboratory (IT-6006)

Course Code	IT-6006	Credits-2	L-0, T-0, P-2
Name of the Course	Artificial Intelligence Laboratory		
Lectures to be Delivered	26 Hrs. of Lab work (2hrs. each per week)		
Semester End Examination	Max Marks: 50	Min Pass Marks: 40%	Maximum Time: 3 hrs
Continuous Assessment	Lab work 30%, Lab Record 25%, Viva 25% & Attendance 20%	Max Marks: 50	Min Pass Marks: 25

Instructions for paper setter / Candidates

Laboratory examination will consist of three parts:

1. Performing a practical examination assigned by the examiner. (25 marks)
2. Viva-voce examination. (25 marks)

Viva-voce examination will be related to the practical performed/projects executed by the candidate related to the paper during the course of the semester.

List of Practical: -

1. Implement these practical in LISP or Prolog in which you feel comfortable.
 - a) Depth –bounded depth first search.
 - b) Iterative Deepening Search.
 - c) Best first search.
 - d) A * Search.
 - e) AO* Search.
 - f) Minmax Search.
 - g) Alpha Beta Pruning.
2. Solve the water jug problem using AI technique.
3. Solve the Missionaries problem using AI technique.
4. Design the following expert system using LISP or Prolog in which you feel comfortable.
 - a) Weather Forecasting System.
 - b) Legal Expert System.
5. Design parser for NLP using Lex and Yacc utilities