



# Jodhpur Institute of Engineering & Technology

## SYLLABUS

IV - Semester

Branch: CSE (AI&ML)

4AIML4-23: Artificial Intelligence Lab

Credit: 1.5

Max. Marks: 75 (IA: 45, ETE: 30)

0L+0T+3P

End Term Exam: 3 Hours

Sr. No.	Experiments
1	Write a program in PROLOG to implement simple facts and rules and perform various types of queries on them.
2	Write a program in PROLOG to design a pedigree chart like a Family-tree or a Food Query Chart.
3	Write a program in PROLOG to implement various types of objects and line segments.
4	Write a program in PROLOG to implement LIST as a Data Structure.
5	Write a program in PROLOG for computation of Recursive Functions, like, Factorial, Fibonacci numbers, etc.
6	Write a program in PROLOG to solve Monkey-Banana Problem.
7	Write a program which behaves like a Knowledge Based Expert System for Medical Diagnosis.
8	Write a program in PROLOG to solve n-queens Problem.
9	Write a program in PROLOG to solve Water-Jug Problem.
10	Case Study : Travelling Salesman Problem
11	Case Study: MYCIN and DENDRAL

Tools/ software/ language :PROLOG

### TEXT BOOKS:

1. Prolog Programming for Artificial Intelligence ,Ivan Bratko.
2. NP Padhy Artificial Intelligence and Intelligent System

### REFERENCES BOOKS:

1. S Rajasekaran and GA Vijayalakshmi Pai : Neural Networks, Fuzzy Logic and Genetic Algorithm.
2. Elaine Rich , Kevin Knight and Shivshankar B Nair: Artificial Intelligence