**314458: Lab Practice – II (Artificial Intelligence)**

**Problem Statements**

1. Identify and Implement heuristic and search strategy for Travelling Salesperson Problem using Python **1 hrs**

2. Implement n-queens problem using Hill-climbing / simulated annealing / A\* algorithm etc. **1hr**

3. Write a program for Water jug problem. **1 hr**

4. Write a program for Towers of Hanoi using iterative method. **45 min**

5. Write a program for the Information Retrieval System using appropriate NLP tools (such as NLTK, Open NLP, …) a. Text tokenization b. Count word frequency c. Remove stop words d. POS tagging. **45 min**

6. Write a program for the Tic-Tac-Toe game**. 1.5 hr**

Subject Teacher

Mrs. Deepali Salapurkar