**Shambhunath Institute of Engineering and Technology**

**Department of Computer Science and Engineering**

**Prolog Programming (RCS-351)**

**Index:**

1. Working of Computation Software with some basic programs, like addition, Subtraction, multiplication using arguments from user.
2. Problem of Family relationship, rules to find the uncle from the given list of facts.
3. Problem of Family relationship, Clause to find out the aunt from the given list of facts.
4. Problem of Family relationship, If niece(X, Y) be the rule to find the niece from the given relationship, find the truth of the given fact using this rule.

Recursion and Induction:

1. Implementation of Factorial using Prolog
2. Tower of Hanoi implementation using Prolog.
3. Fibonacci Series using Prolog.

8. Practice and Testing of Set operation using software.

1. Permutation and Combination using Prolog.
2. Implementation of recursive counting technique.
3. N digit binary sequences not having adjacent 1's
4. The birthday problem.
5. 8 queen Problem using Prolog.