

## **2. Artificial Intelligence (CS-120)**

**(3-0-2)**

Overview of AI; Problem solving; Various search strategies; Game playing; Minmax, Alpha-Beta pruning; Logic programming; Inference mechanisms; Knowledge representation: logic, rules, semantics, frames; Conceptual dependency; Uncertain knowledge and reasoning; Expert systems; NLP; Learning; Process planning and robotics; Intelligent agents.

### **References:**

1. Rich and Knight, Artificial Intelligence, Tata McGraw-Hill, 2001.
2. Russell and Norvig, Artificial Intelligence: A Modern Approach, Third Edition, Prentice Hall.