

**Topic – Predicate Logic/First Order Logic (FOL)**

**Relevant Course:** Artificial Intelligence

**Relevant Department:**CSE

**Relevant Semester:**Sem 7

**Topics for QEEE: Predicate Logic/ First Order Logic (FOL) (6 hours)**

Module 1 (2 hours): Syntax, Semantics, Entailment and Models, Proof Systems, Knowledge Representation.

Module 2 (2 hours): Skolemization, Unification, Deductive Retrieval, Forward Chaining, Backward Chaining

Module 3 (2 hours): Resolution Refutation in FOL, Horn Clauses and Logic Programming