

#### MODULE 1(10 HOURS)

Theory of Automata: Definition of automaton, description of a finite automaton, transition systems, properties of transition functions.DFA

#### MODULE 2(10 HOURS)

Acceptability of a string by a finite automaton, Non deterministic finite state machines, equivalence of DFA and N DFA, Mealy and Moore Models.

#### MODULE 3(10 HOURS)

Minimization of finite automata, NFA with epsilon moves and without epsilon moves, Regular sets and grammar

#### MODULE 4(10 HOURS)

Regular expressions, Algebraic laws for regular expressions ,Finite automata and regular expressions, closure properties of regular sets, regular sets and regular grammars