* CO-1 : Apply basic concepts of theory of computation in the computer field in order to solve computational problems.
* CO-2 : Construct algorithms for different problems and argue formally about correctness on different restricted machine models of computation.
* CO-3 : Analyse and design finite automata, pushdown automata and Turing machine for formal languages.
* CO-4 : Apply rigorously formal mathematical methods to prove properties of languages, grammars and automata.
* CO-5 : Identify limitations of some computational models and possible solutions.
* CO-6 : Design context free grammars for formal languages.