Department of CSE (Data Science)

B. Tech IV Semester in CSE (Data Science)

Course Name: BDS32402   Theory of Computation

Course Outcomes		Cognitive Level
After the completion of this course, students will be able to-		
BDS32402.1	**Understand** formal language, translation logic, essentials of translation, alphabets, language representation and apply it to design Finite Automata and its variants.	2
BDS32402.2	**Construct** regular expression to present regular language and understand pumping lemma for RE.	6
BDS32402.3	**Design** Context Free Grammars and learn to simplify the grammar.	6
BDS32402.4	**Construct** Pushdown Automaton model for the Context Free Language Design Turing Machine for the different requirements outlined by theoretical computer science.	6
BDS32402.5	**Understand** different classes of problems, classify and analyze them and study concepts of NP completeness.	2