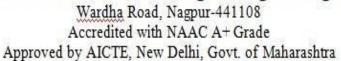




## TULSIRAMJI GAIKWAD-PATIL College of Engineering and Technology





(An Autonomous Institution Affiliated to RTM Nagpur University)

## 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	<b>Understand</b> formal language, translation logic, essentials of translation, alphabets, language representation and apply it to design Finite Automata and its variants.	2
BDS32402.2	<b>Construct</b> regular expression to present regular language and understand pumping lemma for RE.	6
BDS32402.3	<b>Design</b> 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.	U
BDS32402.5	<b>Understand</b> different classes of problems, classify and analyze them and study concepts of NP completeness.	2