



TULSIRAMJI GAIKWAD-PATIL College of Engineering and Technology

Wardha Road, Nagpur-441108
Accredited with NAAC A+ Grade

Approved by AICTE, New Delhi, Govt. of Maharashtra

(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	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