



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 Biotechnology

B. Tech Biotechnology
Course Name: BBT3503 Genome Editing

BBT3503	Course Outcomes
CO1	Describe the principles of traditional gene knockout methods and their limitations
CO2	Analyze the mechanism of action of different engineered enzyme systems in gene editing
CO3	Demonstrate the Design single-guide RNA (sgRNA) for CRISPR/Cas9 targeting and explore its applications
CO4	Apply gene editing methods to create chromosome rearrangements and study gene function
CO5	Evaluate ethical, safety, and environmental considerations related to gene editing