



**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: BBT3504 Machine Learning**

| <b>BBT3504</b> | <b>Course Outcomes</b>                                                                                                |
|----------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>CO1</b>     | <b>Define</b> the concept of supervised learning and provide examples of its applications in real-world scenarios.    |
| <b>CO2</b>     | <b>Compare</b> and contrast the effects of boosting and bagging as ensemble learning techniques on model performance. |
| <b>CO3</b>     | <b>List</b> the steps involved in constructing decision trees and explain their significance in classification.       |
| <b>CO4</b>     | <b>Determine</b> the components of a genetic algorithm and describe how they contribute to the optimization process.  |
| <b>CO5</b>     | <b>Analyze</b> the applicability of Markov Chain Monte Carlo methods in graphical model inference and tracking tasks. |