



**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**  
**BBT4704: Engineering Economics in Biotechnology**

BBT3501	Course Outcomes
CO1	<b>Interpret</b> the fundamental concepts of engineering economics and the significance of time value of money in engineering decision-making processes.
CO2	<b>Assess</b> various cost estimation techniques and conduct break-even and life-cycle cost analyses to support cost-benefit assessments.
CO3	<b>Evaluate</b> investment alternatives using methods such as NPV, IRR, and payback period to compare different financial options.
CO4	<b>Assess</b> the impact of depreciation, inflation, and risk on economic decisions through the use of decision trees and sensitivity analysis.
CO5	<b>Develop</b> case studies and project management plans that incorporate economic principles and feasibility studies, including considerations of environmental economics in engineering projects.