





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 **BBT4706:** Biosensors

BBT3501	Course Outcomes
CO1	Understand the definition, historical development, and components of biosensors, and their applications in various fields
CO2	Analyze the types of bioreceptors, their mechanisms of interaction, specificity, sensitivity, and methods of immobilization
CO3	Explain the types of transducers used in biosensors, their principles of operation, signal processing, and selection criteria
CO4	Apply knowledge of materials, microfabrication techniques, and integration methods in the fabrication and design of biosensors
CO5	Evaluate biosensor performance, calibrate and validate biosensors, and explore real-world applications and emerging trends