



## TULSIRAMJI GAIKWAD-PATIL College of Engineering and Technology Wardha Road, Nagpur - 441108

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 BBT4703: Good Manufacturing and Laboratory Practice**

BBT3501	Course Outcomes
CO1	<b>Apply</b> the principles of Good Manufacturing Practice (GMP) and Good Laboratory Practice (GLP) to ensure regulatory compliance in biotechnology and pharmaceutical manufacturing.
CO2	<b>Implement</b> Quality by Design (QBD) methodologies and Design of Experiment (DOE) techniques in the development and optimization of biotech products.
CO3	<b>Interpret</b> and apply ICH guidelines and regulatory requirements from national and international authorities to the design and development of pharmaceutical products.
CO4	<b>Analyze</b> and apply laws and regulations governing drug development, approval processes, and marketing authorizations to ensure compliance in pharmaceutical jurisprudence.
CO5	<b>Evaluate</b> and manage production processes by implementing Good Manufacturing Practices (GMP) to ensure quality and compliance in biotech and pharmaceutical production.