



**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 BBT2405: Immunology and Immunotechnology**

<b>BBT2405</b>	<b>Course Outcomes</b>
<b>CO1</b>	Distinguish between innate and acquired, Immunity and understand the structure and function of molecules, cells and organs of the immune system
<b>CO2</b>	Describe cell mediated and antibody-mediated immunity and role of complement proteins in defence mechanism
<b>CO3</b>	Summarize different serological techniques such as agglutination, precipitation, immunoelectrophoresis RIA, ELISA routinely used in clinical analysis and diagnosis
<b>CO4</b>	Classify vaccines and learn the techniques of design of different vaccines, monoclonal antibody productions and their applications in research
<b>CO5</b>	Outline the types of hypersensitivity reactions, Immune tolerance and mechanism of graft rejection including tumor associated & specific antigens.