



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 BBT3601: Mass Transfer in Biotechnology

BBT3601	Course Outcomes
CO1	Understand principles & applications of molecular diffusion, including its relevance in oxygen transfer methodology.
CO2	Analyze vapor-liquid equilibrium data, estimate VLE, and perform differential distillation, equilibrium distillation, and rectification processes effectively.
CO3	Comprehend gas absorption processes, design plate columns, and analyze mass transfer in packed and fluidized beds for industrial applications.
CO4	Apply liquid-liquid extraction principles, understand supercritical fluid extraction, and determine stages for contacting processes.
CO5	Understand drying characteristics, evaluate rates, select dehydration equipment, and grasp crystallization theory and applications.