

SYLLABUS :-

Prerequisites:CH30009Syllabus: Basics of Biology; Overview of Biotechnology; Diversity in Microbial Cells, Cell Constituents, Chemicals for Life; Kinetics of Enzyme Catalysis; Immobilized Enzymes: effects of intra and inter-phase mass transfer on enzyme kinetics; Major Metabolic Pathways: Bioenergetics, Glucose Metabolism, Biosynthesis; Microbial Growth: Continuum and Stochastic Models; Design, Analysis and Stability of Bioreactors; Kinetics of Receptor-Ligand Binding; Molecular Genetics and Regulation of Gene Expression; Introduction to Bio-product Recovery; Manufacture of Biological Products.