

SYLLABUS :-

Classification of bio-products; Bioprocesses for production of organic acids; solvents; antibiotics, proteins; polysaccharides; lipids; pigments and aroma. Equipment and accessories for industrial process. Stability of enzyme: Enzymes stabilization by selection and genetic engineering, protein engineering. Reaction environment rebuilding, chemical modification, intramolecular cross linking and immobilization. Application of biocatalysts : group transfers redox, elimination, isomerisation and rearrangements, C-C bond cleavage, formations. Application of enzymes in industry, analytical purpose and medical therapy.