

TA 617 – Immobilized Enzymes 3 (3-0) II. Introduction. Structure and function of enzymes. Application of enzymes. Production and purification of enzymes. Enzyme activity - measurement. Kinetics of enzymatic reactions. Enzyme immobilization: introduction. Supports and methodologies for enzyme immobilization. Microenvironments and conformational and kinetic changes in immobilized enzymes. Bioreactors for use of immobilized enzymes. Immobilization parameters. Strategies for cofactor regeneration. Biosensors based in immobilized enzymes. Genetic engineering applied to the optimization of enzymes applications and immobilization