

0404456 Surface Science and Catalysis

(3 Credit hours, Prerequisite: 0404336)

Explore the new advances in surface science and catalysis. This will include studying the types and mechanisms of homogeneous and heterogeneous catalysis, catalytic reactions over metals, oxides, and zeolite catalysts, activation and deactivation of catalysts. Theories and concepts of selective oxidation technology. Biocatalytic reactions