
Code	MSME 607
Name	Fundamentals of Organic Materials and Applications
Hour per week	3 (3 + 0)
Credit	3
ECTS	10
Level/Year	Graduate
Semester	Fall, Spring
Type	Elective
Prerequisites	One of the following Courses: General Chemistry, Organic Chemistry, Polymer Chemistry, Materials Science etc. (undergraduate level courses)
Content	This course focuses on the fundamental principles of organic materials and carbon chemistry and the detailed study of their applications in materials science and nanotechnology. The topics covered in this course include Bonding and Molecular Structure, Families of Carbon Compounds, Acids and Bases: An Introduction to Organic Reactions/Mechanisms, Nomenclature and Conformations of Alkanes and Cycloalkanes, Stereochemistry: Chiral Molecules, Ionic Reactions: Nucleophilic Substitution and Elimination Reactions.
