

Name of the course	Recycling of polymer and inorganic waste
Number of instruction hours	20
Outline of course/module content	<p>Introducing the polymer and packaging waste sources. The waste management system. Methods of waste characterization, preparation of polymers and packaging waste for recycling. Systems of waste collection, separation, shredding and washing technologies. Recycling technological processes. Material recycling; mechanical and chemical processes, energy recovery by incineration. Advantages and disadvantages of different type of recycling of the polymers and packaging waste.</p> <p>Characterization and Classification of Wastes, Hydraulic Cement Systems for Stabilization/Solidification, Organic Polymers for Stabilization/Solidification, Other Binders for Stabilization/Solidification, Interactions Between Contaminants and Binders, Additives for Enhancement of Stabilization/Solidification, Microstructure of Stabilized/Solidified Waste Forms, Transport and Leachability of Contaminants in Stabilized/Solidified Waste Forms, Testing and Performance Criteria for Satbilised/Solidified Waste Forms</p>
Description of instruction methods	Lectures, demonstrations in lab Preparation od seminar and presentation
Description of course/module requirements	Written and oral exam