

<b>Title of Course</b>	<b>Rheology of Polymers</b>		
<b>Semester</b>	<b>Autumn/Spring</b>		
<b>Teaching Hours per Course:</b>	<b>Total</b>	<b>- Lectures:</b>	<b>- Tutorials:</b>
	30	30	0
<b>ECTS Credits</b>	2		
<b>The content of education</b>			
<b>Aims of Course</b>	Knowledge and skills acquiring relating to estimation of rheological properties of polymers materials and determining their impact on the exploitation properties of products.		
<b>Program</b>	Characteristics of polymer materials – obtaining, properties, application. Basic knowledge (information) of rheology: mechanical rheological models. Rheological classification of liquids. Mathematical descriptions of flow curves (rheological models). Viscosity and viscoelasticity of polymers. The influence of macromolecule structures and external parameters on rheological properties of polymers. Rheological studies of thermoplastics. Rheological studies of thermosets. Testing methods of rheological properties: measuring apparatus, static and dynamic measurements. Selected methods of predicting rheological results.		
<b>Conditions of completion</b>	The condition of passing the subject is receiving a positive grade from the test. During the academic term, two partial tests are planned. Obtaining positive marks from both partial tests releases students from the obligation of taking the final test.		
<b>Teacher</b>	PhD. Eng. Wiesława Ciesińska		