

<b>Name of subject:</b> Structures of materials I.	<b>NEPTUN-code:</b> RMXAT1BBNE	<b>Number of hours:</b> <i>lec+gs+lab</i> 2+0+2	<b>Credit: 5</b> <b>Requirements:</b> practice mark
<b>Course coordinator:</b> Judit Borsa PhD	<b>Title:</b> professor	<b>Prerequisite:</b> -	
<b>Subject content:</b>			
<p>The students get a summary on basic chemistry based upon their high school studies (types of materials, atoms, molecules, primary and secondary bonds). Polymers as most important material for future industrial designers are presented: natural polymers, synthetic polymers (polymerization reactions, structure of polymers and their properties, polymer manufacture methods). Practice: chemical and instrumental (FTIR) analysis of polymers; microscopy, thermal analysis, chromatography, water uptake of hydrogels, evaluation of experimental data.</p>			
<b>Bibliography:</b>			
1. Kutasi Istvánné: Kémia és kémiai technológia műszakiaknak			
2. Komáromi-Kutasiné: Kémia és felületvédelmi technológiai gyakorlatok			
3. Berecz Endre: Kémia műszakiaknak			