

Name of subject: Structures of materials I.	NEPTUN-code: RMXAT1BBNE	Number of hours: <i>lec+gs+lab</i> 2+0+2	Credit: 5 Requirements: practice mark
Course coordinator: Judit Borsa PhD	Title: professor	Prerequisite: -	
Subject content:			
<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>			
Bibliography:			
1. Kutasi Istvánné: Kémia és kémiai technológia műszakiaknak			
2. Komáromi-Kutasiné: Kémia és felületvédelmi technológiai gyakorlatok			
3. Berecz Endre: Kémia műszakiaknak			