

<b>Study Programme: Biotechnology</b>			
<b>Course Unit Title: Materials in biotechnology</b>			
<b>Course Unit Code: BII 301</b>			
<b>Name of Lecturer(s): Prof. Branka M. Pilić, PhD</b>			
<b>Type and Level of Studies: Undergraduate Academic Studies</b>			
<b>Course Status (compulsory/elective): elective</b>			
<b>Semester (winter/summer): Winter</b>			
<b>Language of instruction: English</b>			
<b>Mode of course unit delivery (face-to-face/distance learning): Face-to-face</b>			
<b>Number of ECTS Allocated: 4</b>			
<b>Prerequisites: None</b>			
<b>Course Aims:</b> The aim of this course is to get basic theoretical knowledge about the materials that are applied in biotechnology, type, structure and properties of materials.			
<b>Learning Outcomes:</b> By obtaining this course students acquire basic theoretical knowledge about the type of materials (metal, ceramics, and polymers), the influence of the structure on the final properties of the material. The student will know the difference between the type of material and will be familiar with their properties that are necessary for the applications in biotechnology			
<b>Syllabus:</b> <i>Theory</i> Introduction to materials, material structure, properties, metals, ceramics, glass, polymeric and bio polymeric materials, material corrosion. <i>Practice</i> Introduction - material structure, material structure test methods, inorganic material properties testing methods, composition of polymeric materials, application of materials in biotechnology preparation of samples of polymeric materials for mechanical and thermal tests.			
<b>Required Reading</b>			
<b>Weekly Contact Hours: 4</b>	<b>Lectures: 2</b>	<b>Practical work: 2</b>	
<b>Teaching Methods:</b> Lectures and students group work			
<b>Knowledge Assessment (maximum of 100 points):</b>			
<b>Pre-exam obligations</b>	points	<b>Final exam</b>	points
Active class participation	10	written exam	
Practical work	10	oral exam	30
Preliminary exam(s)	30	.....	
Seminar(s)	10		
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam,			

project presentation, seminars, etc.