

<b>Study programmes:</b> Master studies - Informatics				
<b>Course name:</b> R313 - Geometric Algorithms				
<b>Lecturers:</b> Predrag Janičić and other lecturers of the Department for Computer Science				
<b>Status:</b> Optional				
<b>ECTS:</b> 8				
<b>Attendance prerequisites:</b> No prerequisite				
<b>Course aims:</b> Acquiring knowledge about basic geometric algorithms.				
<b>Course outcome:</b> After the course, the student is able to understand, construct and implement basic geometric algorithms and to apply them in real world problems.				
<b>Course content:</b> Triangulation, polygon subdivisions, convex hull in plane and in space, Voronoi diagrams, arrangements, search and intersections.				
<b>Literature:</b> Joseph o'Rourke: Computational geometry in C, Cambridge university press, 1994 (the lecturer can choose another appropriate literature)				
<b>Number of hours:</b> 7	<b>Lectures:</b> 2	<b>Tutorials:</b> 3	<b>Laboratory:</b> -	<b>Research:</b> 2
<b>Teaching and learning methods:</b> Frontal/Lectures/Exercises				
<b>Assessment (maximal 100 points)</b>				
<b>Course assignments</b>	<b>points</b>	<b>Final exam</b>	<b>points</b>	
Lectures	4	Written exam	-	
Exercises / Tutorials	-	Oral exam	-	
Colloquia	32	Written-oral exam	60	
Essay / Project	4			