

Study programmes: PhD studies - Informatics				
Course name: R482 - Web Tools and Languages				
Lecturers: Saša Malkov and other lecturers at Department of computer Science				
Status: Optional				
ECTS: 9				
Attendance prerequisites: -				
Course aims: Get to know some of the software tools used on the web and study the relevant programming languages.				
Course outcome: After completing a course, a student should master Ajax, learn how to use different libraries and engines and other tools and scripting languages.				
Course content: WWW Architectures: client-server architecture, concepts on the web, HTTP protocol, web servers and web-clients. Applicative aspects of web architecture: communication of programs and web servers, CGI protocol and consequences. SOA, REST, ROA. Asynchronous communication on the web, Ajax. Using JSP and Java programming language to communicate between the server and the client.				
Literature: 1. C. Wells, Securing Ajax Applications, by O'Reilly Media, Inc., 2007. 2. S. Brown at al. Pro JSP, Apress, 2003. 3. C. S. Lindsey, J. S. Tolliver and T. Lindblad: JavaTech -An Introduction toScientific and Technical Computing with Java, Cambridge University Press, 2005. (The lecturer can choose another relevant current literature)				
Number of hours: 10	Lectures: 4	Tutorials: -	Laboratory: -	Research: 6
Teaching and learning methods: Frontal lectures, group and individual tutorials and exercises.				
Assessment (maximal 100 points)				
Course assignments	points	Final exam		points
Lectures	20	Written exam		-
Exercises / Tutorials	-	Oral exam		-
Colloquia	-	Written-oral exam		50
Essay / Project	30			