

Study programmes: PhD studies - Informatics				
Course name: R491 - XML - technologies				
Lecturers: Dušan Tošić and other lecturers of the Department for Computer Science				
Status: Optional				
ECTS: 9				
Attendance prerequisites: No prerequisites				
Course aims: Acquiring knowledge about XML, XML-based technologies and possible applications. Experience different XML-based technologies for research purpose.				
Course outcome: After the course, students will have complete knowledge about XML and XML based technologies. Also, students will be able to used different software tools which are based on XML technologies.				
Course content:				
<ul style="list-style-type: none"> - Markup languages. - Characteristics of XML. Structure of XML document. XML elements. - Well-formed and valid XML documents. (DTD and XML-shema) - Tools for making XML documents (CSS, XSLT, ...) - Software tools for handling XML - XML-applications - Java and XML (SOAP and RDF) - XML and databases 				
Literature:				
1. David Hunter ... [et al.]. -- 4th ed.,Beginning XML,Wiley Publishing,2007.				
2. Elliotte Rusty Harold, W. Scott Means: XML in a Nutshell, 3rd Edition, Publisher: O'Reilly Pub. 2004, Str. 712.				
3. Elliotte Rusty Harold:XML 1.1 Bible, 3rd Edition, Wiley Publishing, 2004.				
(the lecturer can choose another appropriate literature)				
Number of hours: 10	Lectures: 4	Tutorials: -	Laboratory: -	Research: 6
Teaching and learning methods: Frontal/Individual/Group work/Practical work.				
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			