

Course description

Course abbreviation:	KI/MRL	Page:	1 / 3
Course name:	Markup Languages		
Academic Year:	2012/2013	Printed:	26.04.2024 20:02

Department/Unit /	KI / MRL			Academic Year	2012/2013
Title	Markup Languages			Type of completion	Pre-Exam Credit
Accredited/Credits	No, 2 Cred.			Type of completion	Combined
Number of hours	Seminář 2 [HOD/TYD]				
Occ/max	Status A	Status B	Status C	Course credit prior to	NO
Summer semester	29 / -	0 / -	0 / -	Counted into average	NO
Winter semester	0 / -	0 / -	0 / -	Min. (B+C) students	not determined
Timetable	Yes			Repeated registration	NO
Language of instruction	Czech, English			Semester taught	Summer semester
Optional course	Yes			Internship duration	0
Evaluation scale	S N				
No. of hours of on-premise					
Auto acc. of credit	No				
Periodicity	K				
Substituted course	None				
Preclusive courses	N/A				
Prerequisite courses	N/A				
Informally recommended courses	N/A				
Courses depending on this Course	N/A				

Course objectives:

The course is directed at the advanced XML technology: displaying XML files (transformation of XML files on the basis of XSLT), navigation in the tree (XPath), XQuery (query language) and programming access to XML documents (DOM XML). In this course, the students will study the basics of XML file processing by using PHP language (DOM XML and PHP, Simple XML, XSLT and PHP).

Requirements on student

Content

1. Basics of XML document
2. Displaying the XML files using XSLT
3. XPath - navigation in the tree
4. XQuery - query language
5. DOM XML
6. JavaScript and XML DOM
7. Processing the XML files through the use of PHP
8. DOM XML and PHP
9. Simple XML
10. XSLT and PHP

Prerequisites - other information about course preconditions

Teaching in English is meant only for erasmus and foreign students. In the case of a small number of students is teaching in a form of individual consultations.

Competences acquired

Fields of study

Guarantors and lecturers

- **Guarantors:** doc. RNDr. Mgr. Viktor Maškov, DrSc. (100%)
- **Seminar lecturer:** doc. RNDr. Mgr. Viktor Maškov, DrSc. (100%)

Literature

- **Basic:** Hlavenka J. *Vytváříme WWW stránky a spravujeme moderní web site*. Comp. Press, 2006. ISBN 80-251-0801-5.
- **Basic:** Zouny M.J. *XML Krok za krokem*. Comp. Press, 2006. ISBN 80-251-1070-2.
- **Basic:** Benz B. *XML Programming Bible*. John Wiley & Sons.
- **Basic:** Mlýnková I., Nečaský M., Pokorný J., Richta K., Toman K., Toman V. *XML technologie*. Grada, 2008. ISBN 978-80-247-2.

Teaching methods

Assessment methods

Course is included in study programmes:

Study Programme	Type of	Form of	Branch	Stage	St. plan v.	Year	Block	Status	R.year	R.
Applied Informatics	Bachelor	Full-time	Information Systems	1	A8	2012	Povinné předměty	A	3	LS
Applied Informatics	Bachelor	Full-time	Information Systems	1	A12	2012	Povinné předměty	A	3	LS
Applied Informatics	Bachelor	Full-time	Information Systems	1	A11	2012	Povinné předměty	A	3	LS
Geography	Bachelor	Full-time	Information Sciences (double subject)	1	A10	2012	Povinné předměty	A	2	LS
Geography	Bachelor	Full-time	Information Sciences (double subject)	1	A6	2012	Povinné kurzy	A	2	LS
Chemistry	Bachelor	Full-time	Informatics	1	A6	2012	Povinné kurzy	A	2	LS
Chemistry	Bachelor	Full-time	Informatics	1	A10	2012	Povinné předměty	A	2	LS
Chemistry	Bachelor	Full-time	Informatics Focused on Education	1	A10	2012	Povinné kurzy	A	3	LS
Informatics	Bachelor	Full-time	Informatics Focused on Education	1	A10	2012	Povinné kurzy	A	3	LS
Informatics	Bachelor	Full-time	Informatics Focused on Education	1	A7	2012	Povinné kurzy	A	3	LS
Informatics	Bachelor	Full-time	Information Sciences (double subject)	1	A10	2012	Povinné předměty	A	2	LS
Informatics	Bachelor	Full-time	Information Sciences (double subject)	1	A8	2012	Povinné kurzy	A	2	LS
Mathematics	Bachelor	Full-time	Informatics focused on Education	1	A7	2012	Povinné kurzy	A	3	LS
Mathematics	Bachelor	Full-time	Informatics focused on Education	1	A10	2012	Povinné kurzy	A	3	LS
Mathematics	Bachelor	Full-time	Information Sciences (double subject)	1	A6	2012	Povinné kurzy	A	2	LS
Mathematics	Bachelor	Full-time	Information Sciences (double subject)	1	A10	2012	Povinné předměty	A	2	LS
Physics	Bachelor	Full-time	Informatics	1	A10	2012	Povinné předměty	A	2	LS

Study Programme	Type of	Form of	Branch	Stage	St. plan v.	Year	Block	Status	R.year	R.
Physics	Bachelor	Full-time	Informatics	1	A6	2012	Povinné kurzy	A	2	LS
Physics	Bachelor	Full-time	Informatics focused on Education	1	A10	2012	Povinné kurzy	A	3	LS
Mathematics	Bachelor	Full-time	Mathematics and its application in natural sciences	1	A12	2012	Modul II - Matematická informatika	B	3	LS