

Course description

Course abbreviation:	KI/VPW	Page:	1 / 3
Course name:	Visual Programming in Win32		
Academic Year:	2012/2013	Printed:	20.04.2024 12:54

Department/Unit /	KI / VPW			Academic Year	2012/2013
Title	Visual Programming in Win32			Type of completion	Pre-Exam Credit
Accredited/Credits	No, 3 Cred.			Type of completion	Combined
Number of hours	Přednáška 1 [HOD/TYD] Seminář 2 [HOD/TYD]			Course credit prior to	NO
Occ/max	Status A	Status B	Status C	Counted into average	NO
Summer semester	0 / -	0 / -	0 / -	Min. (B+C) students	not determined
Winter semester	49 / -	0 / -	0 / 0	Repeated registration	NO
Timetable	Yes			Semester taught	Winter semester
Language of instruction	Czech, English			Internship duration	0
Optional course	Yes				
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	KI/KPGL2 or KI/PGL2				
Meet all prerequisites before registering					YES
Informally recommended courses	N/A				
Courses depending on this Course	N/A				

Course objectives:

This course is designed for students with programming experience in C# (level of Programming I,II). The topics covered in this course are visual programming from the point of view of C# programming language. The objective of this course is to initiate the students to the concept of visual programming in C# language. Moreover students will gain advanced knowledge about .NET library such as working with XML, multithreading, sockets and etc. We emphasize casual studies and problem solution.

Requirements on student

Vytvoření a odevzdání softwarového projektu

Content

- 1.First steps in visual programming in MS-Visual Studio
- 2.Working with forms, dialogs. Events and delegates and their usage
- 3.SDA, MDA application
- 4.Object serialization, working with formatters (SOAP)
- 5.Working with XML
- 6.Drawing (classes Graphics, Pen, Brush)
- 7.Multithreading, visual multithreaded application. (classes Thread, BackgroundWorker, ThreadPool)
- 8.Net Remoting, Sockets
9. Databases in C#
10. Tables, SQL architecture, ADO.NET
11. Reflexion
12. User defined components

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:** RNDr. Petr Kubera, Ph.D. (100%)
- **Lecturer:** RNDr. Petr Kubera, Ph.D. (100%)
- **Seminar lecturer:** RNDr. Petr Kubera, Ph.D. (100%)

Literature

- **Basic:** Sells Ch. *C# a WinForms*. Zoner press. ISBN 80-86497-13-5.
- **Basic:** Robinson S. a kol. *C# Programujeme profesionálně*.
- **Basic:** Riordan R. M. *Microsoft ADO.NET krok za krokem*. knihy I-DNES. ISBN 80-7226-206-8.
- **Basic:** Liberty J. *Programming C#*. O'Reilly.
- **Basic:** Pokorný J. *Úvod do .NET FRAMEWORK*.

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	A12	2012	Povinné předměty	A	3	ZS
Applied Informatics	Bachelor	Full-time	Information Systems	1	A8	2012	Povinné předměty	A	3	ZS
Applied Informatics	Bachelor	Full-time	Information Systems	1	A11	2012	Povinné předměty	A	3	ZS
Geography	Bachelor	Full-time	Information Sciences (double subject)	1	A10	2012	Specializační předměty - programování	B	3	ZS
Geography	Bachelor	Full-time	Information Sciences (double subject)	1	A6	2012	Specializační předměty - programování	B	3	ZS
Chemistry	Bachelor	Full-time	Informatics	1	A10	2012	Specializační předměty - programování	B	3	ZS
Chemistry	Bachelor	Full-time	Informatics	1	A6	2012	Specializační předměty - programování	B	3	ZS
Informatics	Bachelor	Full-time	Information Sciences (double subject)	1	A8	2012	Specializační předměty - programování	B	3	ZS
Informatics	Bachelor	Full-time	Information Sciences (double subject)	1	A10	2012	Specializační předměty - programování	B	3	ZS
Mathematics	Bachelor	Full-time	Information Sciences (double subject)	1	A6	2012	Specializační předměty - programování	B	3	ZS

Study Programme	Type of	Form of	Branch	Stage	St. plan v.	Year	Block	Status	R.year	R.
Mathematics	Bachelor	Full-time	Information Sciences (double subject)	1	A10	2012	Specializační předměty - programování	B	3	ZS
Physics	Bachelor	Full-time	Informatics	1	A6	2012	Specializační předměty - programování	B	3	ZS
Physics	Bachelor	Full-time	Informatics	1	A10	2012	Specializační předměty - programování	B	3	ZS