Course description

Course name:	Computer Skills	2				
Academic Year:	2023/2024				Printed:	03.06.2024 08:01
Department/Unit /	KPV / PVT2				Academic Year	2023/2024
Title	Computer Skills	2			Type of completion	Pre-Exam Credit
Accredited/Credits	Yes, 3 Cred.				Type of completion	
Number of hours	Tutorial 3 [Hour	s/Week]				
Occ/max	Status A	Status B	Status C		Course credit prior to	NO
Summer semester	52 / -	0 / -	12 / -		Counted into average	NO
Winter semester	0 / -	0 / -	0 / -		Min. (B+C) students	10
Timetable	Yes				Repeated registration	NO
Language of instruction	Czech				Semester taught	Summer semester
Optional course	Yes				Internship duration	0
Evaluation scale	S N					
No. of hours of on-premise						

Course objectives:

Course abbreviation:

KPV/PVT2

The main goal of the topic is to provide information for the efficient work with the spreadsheet program in the field of advanced calculation.

Requirements on student

It is necessary to process semester work including processing of the topic using a spreadsheet to obtain the credit. The semester work includes the calculation and the interpretation of its results.

Content

The course is focused on the use of advanced features for processing bulk documents and advanced features for processing and analyzing data using a spreadsheet application with the use of the MS Office (MS Word and MS Excel).

- 1. Organization of the course
- 2. MS Word basics repetition, mail merge generating na envelope
- 3. MS Word mail merge template and merge, developer form, tabs, controls, editing large documents
- 4. MS Excel basics repetition
- 5. MS Excel custom formatting using condition, pivot tables + charts, charts

Auto acc. of credit Yes in the case of a previous evaluation 4 nebo nic.

- 6. MS Excel mathematical and statistical functions
- 7. MS Excel search and database functions

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

- 8. MS Excel text and time functions
- 9. MS Excel estimations, hypothesis testing
- 10. MS Excel correlation, regression

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Fields of study

Studentům jsou k dispozici studijní materiály umístěné ve vytvořeném týmu v rámci aplikace MS Teams a kurzu v LMS Moodle. Tyto materiály jsou určeny pro osvojení teoretických a praktických poznatků využitelných při řešení příkladů realizovaných během cvičení.

Guarantors and lecturers

• Guarantors: Doc. Ing. Pavel Raška, Ph.D. (100%)

• Tutorial lecturer: Ing. Tomáš Broum, Ph.D. (100%), Ing. Bc. Miroslav Malaga, Ph.D. (100%), Doc. Ing. Pavel Raška, Ph.D.

(100%)

Literature

• Basic: Pecinovský Josef, Pecinovský Rudolf. Office 2019 - Průvodce uživatele. Grada, 2019. ISBN 978-80-

247-2303-7.

• Extending: Wewerka Peter. Office 2019 all-in-one. Hoboken, NJ: John Wiley & Sons, 2019. ISBN 978-1-119-

51327-8.

• Recommended: Laurenčík Marek. Excel 2016- Práce s databázemi a kontingenčními tabulkami. Grada, 2017. ISBN

978-80-271-0477-2.

• Recommended: Benáčanová, Helena. Tvorba aplikací v MS Excel: materiály ke cvičení. Vyd. 1. Praha: Oeconomica,

2005. ISBN 80-245-0953-9.

• Recommended: Kateřina Mičudová, Mikuláš Gangur, Milan Svoboda, Pavla Říhová. Základy statistiky a

pravděpodobnosti. Západočeská univerzita v Plzni, 2016. ISBN 978-80-261-0660-9.

Time requirements

All forms of study

Activities		Time requirements for activity [h]				
Presentation preparation (report) (1-10)		10				
Contact hours		30				
Individual project (40)		40				
	Total:	80				

assessment methods

Knowledge - knowledge achieved by taking this course are verified by the following means:

Continuous assessment

Skills - skills achieved by taking this course are verified by the following means:

Seminar work

Project

Competences - competence achieved by taking this course are verified by the following means:

Seminar work

prerequisite

Knowledge - students are expected to possess the following knowledge before the course commences to finish it successfully:

have a basic knowledge of MS Word

have a basic knowledge of MS Excel

have a basic knowledge of MS Powerpoint

Skills - students are expected to possess the following skills before the course commences to finish it successfully:

is able to work with MS Word at the basic level

is able to work with MS Excel at the basic level

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is able to work with MS Powerpoint at the basic level

Competences - students are expected to possess the following competences before the course commences to finish it successfully:

N/A

teaching methods

Knowledge - the following training methods are used to achieve the required knowledge:

Discussion

Lecture with visual aids

E-learning

Multimedia supported teaching

Students' portfolio

Interactive lecture

Self-study of literature

Individual study

Collaborative instruction

Skills - the following training methods are used to achieve the required skills:

Skills demonstration

Interactive lecture

Practicum

Students' portfolio

E-learning

Lecture with visual aids

Multimedia supported teaching

Task-based study method

Individual study

Self-study of literature

One-to-One tutorial

Competences - the following training methods are used to achieve the required competences:

Task-based study method

Individual study

E-learning

Self-study of literature

Multimedia supported teaching

learning outcomes

Knowledge - knowledge resulting from the course:

to know more advanced functionality of MS Word

to know more advanced functionality of MS Excel

describe an advanced technical problem in a spreadsheet environment

Skills - skills resulting from the course:

complexly analyze technical problems using a spreadsheet

process large-scale text documents efficiently

use more advanced functions in MS Excel

Competences - competences resulting from the course:

N/A

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Course is included in study programmes:

Study Programme	Type of	Form of	Branch	Stage	St. plan v.	Year	Block	Status	R.year	R.
Mechanical Engineering	Bachelor	Full-time	Industrial Engineering and Management	d 1	2020	2023	Compulsory courses	A	3	LS
Project and Process Management	Postgraduat e Master	Full-time	Projektové a procesní říze	ení 1	2020	2023	Blok A: Povinné předměty	A	1	LS
Systems Engineering and Informatics	Postgraduat e Master	Full-time	Project Management Systems	1	2013	2023	Blok A: Povinné předměty	A	1	LS