_
Ω
_
æ
σ
\subset
_
Ν
0
- 7
Ω
-
7
_
Ω
≷
>
`
3
0
>
?
\sim
Q
-
÷
_
_

		STUDY MODULE D	ESCRIPTION FORM	VI	
	f the module/subject			Code 1010341721010349394	
Field of		,	Profile of study	Year /Semester	
Math	nematics in Tech	nology	(general academic, pract	1 / 2	
Elective path/specialty			Subject offered in: Polish	Course (compulsory, elective) obligatory	
Cycle of study:			Form of study (full-time,part-ti		
First-cycle studies			full-time		
No. of h	ours			No. of credits	
Lectur	e: - Classes	s: - Laboratory: 60	Project/seminars:	- 3	
Status	of the course in the study	program (Basic, major, other)	(university-wide, from anoth	her field)	
	I	(brak)		(brak)	
Educati	on areas and fields of sci	ence and art		ECTS distribution (number and %)	
Resp	onsible for subje	ect / lecturer:	Responsible for sub	oject / lecturer:	
dr ir	nż. Karol Gajda		dr Leszek Wittenbeck		
	ail: karol.gajda@put.po	oznan.pl	email: leszek.wittenbeck@put.poznan.pl		
	2805		tel. 2816		
	ulty of Electrical Engir Piotrowo 3A 60-965 Po	•	Faculty of Electrical Engineering ul. Piotrowo 3A 60-965 Poznań		
		s of knowledge, skills and			
	Knowledge of the course of Information Technology from the first semester.				
1	Knowledge	Transmodge of the doction of finest	mater reemiciegy nem ti	o mot comcotor.	
2	Skills	Computer skills. The ability to effectively self-education in a field related to the chosen field of study.			
3	Social competencies	Knowledge of the limits of their knowledge and understanding of the need for further education.			
Assu	mptions and obj	ectives of the course:			
require	ments of the Europea dge, skills and compe X.	etence in the Visual Basic for Appli	nced) in the field of an adva cations (VBA) and the type	anced database use. Obtaining the setting and presentations using Tex	
1.7		mes and reference to the	educational results	for a field of study	
	/ledge:				
	,	the application of mathematical m			
basic t	ools and information to	information technology in the field echnology, as well as knowledge of			
Skills	S :				
		ation, including in order to improve	•	• – •	
		in a team knows how to estimate to lule that ensures meeting the dead		nmissioned work; is able to develop	
	al competencies:				

Assessment methods of study outcomes

1. Knowledge of the limitations own knowledge and understands the need for further education. - [K_K01]

Faculty of Electrical Engineering

Checking the skills and competences in the form of tests.

Continuous evaluation for each class (awarding bonuses to activity and quality perception).

Get extra points for the activity in the classroom, and in particular for:

- propose to discuss additional aspects of the subject;
- effectiveness of the application of knowledge when solving a given problem;
- the ability to work within a team;
- comments relating to the improvement of teaching materials;
- aesthetic accuracy reports and tasks of the self-study.

Course description

Revised 2017

Standards in computer science. Hardware. Software. Digital representation of data. Services in computer networks. Word processing:

- Use advanced text formatting, paragraph, column and table formatting. Converting text into tables and tables in the text.
- Working with references such as footnotes, endnotes, and signatures. Creating a table of contents, links and references.
- Increasing labor productivity through the use of building blocks, templates and forms.
- Efficient use of macros and advanced mail merge options.
- The use and application options in the text linking, connecting and inserting objects to data integration.
- Working with documents main and subordinate. The use of security features document.
- Work with watermarks, sections, headers and footers.

Managerial and presentation graphics:

- The impact of the auditorium and the environment delivering a presentation on the planning and design presentation.
- Ability to create and modify templates and format slide background.
- Ability enrichment presentations using built-in drawing tools and image processing. The ability to insert and modify diagrams and formatting charts at the advanced level.
- The ability to insert music and video files for presentation and use of animation.
- Ability to use links to files, inserting objects embedded in order to link data.
- Create custom slide shows, setting the parameters of the show and control the slideshow.

Spreadsheets:

- Use advanced formatting options such as conditional formatting or define your own numerical formats.
- Using the related operations logical, statistical and financial.
- Create charts and the use of advanced formatting charts.
- Use pivot tables to analyze the data, sorting and filtering data.
- Define scenarios
- Operations in the worksheet using the names assigned to cell ranges, macros and templates.
- Defining the criteria for validation of data entered into the worksheet.
- The use of links, import the data into the worksheet, change tracking.
- Compare and Merge Workbooks.
- Protecting sheets.

Basic bibliography:

- 1. Alicja Żarowska-Mazur, Waldemar Węglarz, ECDL Advanced na skróty, PWN
- 2. John Walkenbach, Excel 2013 PL. Programowanie w VBA. Vademecum Walkenbacha, Helion
- 3. Marcin Borkowski, Bartłomiej Przybylski, LaTeX książka kucharska

Additional bibliography:

Result of average student's workload	
Activity	Time (working

Poznan University of Technology Faculty of Electrical Engineering

1. participation in laboratory classes (30x2 hrs)	60
2. participation in the consultations related to the implementation of the education process, in particular	5
laboratory / project	5
3. completion (within own work) reports on laboratory exercises.	10
4. familiarization with the indicated literature / teaching materials	

Student's workload

Source of workload	hours	ECTS
Total workload	80	3
Contact hours	65	2
Practical activities	70	3