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		CTUDY MODULE D	ESCRIPTION FORM			
	of the module/subject	Code				
	nnologies of info	rmation (ECDL)		1010341721010349394		
Field of	study		Profile of study (general academic, practical	Year /Semester		
Mathematics in technology			general academic			
Elective path/specialty			Subject offered in: Polish	Course (compulsory, elective) obligatory		
Cycle of study:			Form of study (full-time,part-time))		
First-cycle studies			full-time			
No. of h	nours			No. of credits		
Lectu	re: - Classe:	s: - Laboratory: 60	Project/seminars:	- 3		
Status	of the course in the study	program (Basic, major, other)	(university-wide, from another	field)		
		other	univ	ersity-wide		
Educati	on areas and fields of sci	ience and art		ECTS distribution (number and %)		
techi	nical sciences			3 100%		
teem	Technical sciences	nece		3 100%		
	recimical Scie	ences		3 100%		
Resp	onsible for subj	ect / lecturer:	Responsible for subje	ct / lecturer:		
dr ii	nż. Karol Gajda		dr Leszek Wittenbeck			
	ail: karol.gajda@put.po	oznan.pl	email: leszek.wittenbeck@	put.poznan.pl		
	2805	a a a vin a	tel. 2816	ooring.		
Faculty of Electrical Engineering ul. Piotrowo 3A 60-965 Poznań			Faculty of Electrical Engin ul. Piotrowo 3A 60-965 Po	<u> </u>		
		ns of knowledge, skills an				
1	Knowledge	Knowledge of the course of Information Technology from the first semester.				
	Milowicage					
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	jectives of the course:				
Obtain require	ing the knowledge, sk ements of the Europea edge, skills and compe	ills and competences in the field on Computer Driving Licence Advantence in the Visual Basic for Appl	nced) in the field of an advanc	ed database use. Obtaining the		
		mes and reference to the	educational results for	r a field of study		
Knov	vledge:					
		the application of mathematical m	nethods in selected areas of so	ience [K W09]		
2. Eler	nentary knowledge of	information technology in the field echnology, as well as knowledge	of architecture and software of	computer systems, the use of		
Skills			[•		
Has the skills of self-education, including in order to improve professional competence and social [K_U30]						
2. Can work individually and in a team knows how to estimate the time needed for the commissioned work; is able to develop and implement a work schedule that ensures meeting the deadline [K_U29]						
	al competencies:		[0=0]			
	•	ns own knowledge and understan	ds the need for further education	on [K K01]		

Assessment methods of study outcomes

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

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 hours)
1. participation in laboratory classes (30x2 hrs)	60
2. participation in the consultations related to the implementation of the education process, in particular laboratory / project	5 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		