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		STUDY MODULE D	ESCDIE	OTION FORM			
Name of the module/subject				TION FORW	Code		
Technologies of information (ECDL)					101034	41711010349394	
Field of	study			e of study		r /Semester	
Math	nematics in Tech	nology	(gene	ral academic, practical ak)	1)	1/1	
Elective path/specialty			Subje	ect offered in: Polish	Cou	obligatory	
Cycle of	f study:		Form of stu	Form of study (full-time,part-time)			
	First-cyc	cle studies	full-time				
No. of h	ours				No.	of credits	
Lectur	e: - Classes	s: - Laboratory: 60) Proje	ct/seminars:	-	3	
Status	of the course in the study	program (Basic, major, other)		(university-wide, from another field)			
		(brak)		(brak)			
Educati	on areas and fields of sci	ence and art			ECT and	S distribution (number %)	
Page	oncible for cubic	oot / looturor:	Pasnan	scible for cubic	ot / loot	hurari	
-	onsible for subj	ect / lecturer.	-	sible for subje	Ct / Ieci	iurer.	
	nż. Karol Gajda ail: karol.gajda@put.po	oznan nl		dr Leszek Wittenbeck email: leszek.wittenbeck@put.poznan.pl			
	2805	zanam.pi	tel. 2816				
	ulty of Electrical Engir	S .	Faculty of Electrical Engineering				
	Piotrowo 3A 60-965 Po			trowo 3A 60-965 Po			
Prere	equisites in term	s of knowledge, skills and	d social	competencies	:		
1	Knowledge	Basic knowledge with range of s	secondary	school.			
2	Skills	Computer skills. The ability to ef study.	fectively self-education in a field related to the chosen field of				
3	Social Knowledge of the limits of their knowledge and understanding of the need for further						
	competencies	education.					
	•	ectives of the course:					
require		ills and competences in the field o n Computer Driving Licence Adva					
	Study outco	mes and reference to the	educati	onal results for	r a field	l of study	
Knov	vledge:						
	wledge of the basics of tand their limitations.	computational techniques and prog - [K_W05]	gramming,	supporting the work	of mathe	ematician and	
		the application of mathematical m	nethods in	selected areas of so	ience [ŀ	K_W09]	
Skills							
1. Can interpret and explain the functional dependencies, included in the form of formulas, tables, graphs, charts and apply them to practical problems [K_U05]							
2. Apply the rules of safety and health at work [K_U27]							
	al competencies:						
1. Kno	wledge of the limitation	ns own knowledge and understand	ds the nee	d for further education	on [K_k	(01]	

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

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

Additional bibliography:

- 1. Mirosława Kopertowska, Witold Sikorski, Przetwarzanie tekstu. Poziom zaawansowany
- 2. Mirosława Kopertowska, Witold Sikorski, Grafika menedżerska i prezentacyjna. Poziom zaawansowany
- 3. Mirosława Kopertowska, Witold Sikorski, Arkusze kalkulacyjne. Poziom zaawansowany

Result of average student's workload

Activity	Time (working
Activity	hours)

http://www.put.poznan.pl/

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	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
L	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