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		STUDY MODULE D	ESCRIPTION FORM			
Name of the module/subject Information Engineering			Code 1010314411010310388			
Field of study			Profile of study (general academic, practica	ıl)	Year /Semester	
Power Engineering Elective path/specialty			(brak) Subject offered in: Polish		1 / 1 Course (compulsory, elective) obligatory	
Cycle of	study:		Form of study (full-time,part-time	e)		
First-cycle studies part-time			ie			
No. of h	ours				No. of credits	
Lectur	e: 15 Classes	s: - Laboratory: 15	Project/seminars:	15	5	
Status o	f the course in the study	program (Basic, major, other)	(university-wide, from another	field)		
	-	(brak)		(brak)		
Education	on areas and fields of sci	ence and art			ECTS distribution (number and %)	
Resp	onsible for subj	ect / lecturer:	Responsible for subje	ect /	lecturer:	
	ż. Andrzej Kwapisz		dr inż. Bogdan Staszak			
email: andrzej.kwapisz@put.poznan.pl			email: bogdan.staszak@put.poznan.pl tel. +48 616 652 635			
tel. +48 616 652 559 Wydział Elektryczny			Wydział Elektryczny			
ul. Piotrowo 3A 60-965 Poznań			ul. Piotrowo 3A 60-965 Poznań			
Prere	quisites in term	s of knowledge, skills an	d social competencies	: :		
1	Knowledge	Basic knowledge of computer science.				
2	Skills	The ability to use the computer and the operating system. Ability to develop algorithms.				
3	Social competencies	Ability to carry out the tasks in the group. Awareness of the impact of information technology on the surrounding environment.				
Assu	mptions and obj	ectives of the course:				
configu	ration. The use of cor	ucture and configuration of the cor nputer tools to accomplish tasks a ge of methods of protecting data a	and engineering projects. Acqu	uisitio	n and improvement of	

programming task

Study outcomes and reference to the educational results for a field of study

- 1. Has knowledge of software programming and utilization of tools for completing engineering tasks [K_W10 +]
- 2. Has knowledge of use the network infrastructure and databases. [K_W15 +++]

- 1. Has ability to plan the schedule of individual and team work and skills required for team management [K_U02 ++]
- 2. Know how to use available resources for completing task related to conducting and documenting engineering projects -[K_U03 ++]
- 3. Has a skills required to develop algorithms and applications in different programming environments with miscellaneous software - [K_U09 ++]

Social competencies:

- 1. Can extend his own knowledge and use of modern information technologies [K_K01 +]
- 2. Can use available resources to improve efficiency of engineer?s work and growth economic potential of the company -[K_K05 +]

Assessment methods of study outcomes

Faculty of Electrical Engineering

Lecture

evaluation of the knowledge and skills on the exam

Laboratory:

tests and written tests,

evaluation of knowledge and skills related to the accomplishment practice task,

evaluation of report from performed exercise.

Proiect

evaluation of project progress

evaluation of project task report

Obtainment of extra points for the activity in the classroom, in particular for:

effectiveness of the application of acquired knowledge during studies,

ability to work within a team performing the detailed practice task in the laboratory,

contribution to the achievement of the tasks.

Course description

Construction and operation of the computer, the use of office software, design and configuration of the local network, protect data and systems against loss and unauthorized access, and object-oriented and structured programming (including visual tools), implementation of engineering calculations in computer algebra system environments, the use of graphics and database for web applications.

Basic bibliography:

Additional bibliography:

Result of average student's workload

Activity	Time (working hours)
1. participation in class lectures	15
2. participation in laboratory classes	15
3. participation in project classes	15
4. participate in the consultations on the class lectures	4
5. participate in the consultations on the laboratory	4
6. participate in the consultations on the project	4
7. preparation laboratory reports	7
8. preparartion to the laboratory classes	4
9. preparation of home work	4
10. ralisation of project	30
11. preparation for the completion of laboratory	3
12. completion of laboratory classes	2
13. completion of project	1
14. preparation for the exam	10
15. the exam	2
16. student`s selfmanaged work	15

Student's workload

Source of workload	hours	ECTS
Total workload	135	5
Contact hours	65	2
Practical activities	101	3