		STUDY MODULE D	ESCRIPTION FORM		
Name o	f the module/subject				
Infor	mation Engineer	ring	Drafile of study	1010314311010310388	
Pleid of	er Engineering		(general academic, practical) (brak)	1/1	
Elective path/specialty			Subject offered in:	Course (compulsory, elective)	
		-	polish	obligatory	
Cycle of	f study:		Form of study (full-time,part-time)		
	First-cyc	cle studies	part-time		
No. of h	ours			No. of credits	
Lecture: 15 Classes: - Laboratory: 15			Project/seminars:	15 5	
Status o	of the course in the study	program (Basic, major, other)	(university-wide, from another f	ield) (brok)	
Educati	on areas and fields of sci			(DIAK)	
Luucali				and %)	
techr	nical sciences			5 100%	
	Technical scie	ences		5 100%	
Resp	onsible for subj	ect / lecturer:	Responsible for subject	ct / lecturer:	
dr ir	nż. Andrzej Kwapisz		dr inż. Bogdan Staszak	the second s	
ema tel.	all: andrzej.kwapisz@p +48 616 652 559	but.poznan.pl	email: bogdan.staszak@put.poznan.pl		
Wyo	dział Elektryczny		Wydział Elektryczny		
ul. F	Piotrowo 3A 60-965 Po	oznań	ul. Piotrowo 3A 60-965 Poz	znań	
Prere	equisites in term	s of knowledge, skills and	d social competencies:		
1	Knowledge	Basic knowledge of computer so	cience.		
2	Skills	The ability to use the computer a	and the operating system. Ability to develop algorithms.		
3	Social competencies	Ability to carry out the tasks in th on the surrounding environment	ne group. Awareness of the imp	pact of information technology	
Assu	mptions and obj	ectives of the course:			
Getting configu prograu prograu	y knowledge about stru uration. The use of cor mming skills. Knowled mming task	ucture and configuration of the cor nputer tools to accomplish tasks a ge of methods of protecting data a most and reference to the	nputer. Understanding rules for ind engineering projects. Acqui and computer systems. Utilizati	r computer network design and sition and improvement of on of databases for	
Know				a field of Study	
	knowledge of coffwor	e programming and utilization of th	ools for completing engineering	1 taske - [K W/10 +]	
2. Has	knowledge of use the	network infrastructure and databa	ases [K W15 +++]	1 aono - [1/_11 10 +]	
Skills	5:				
1. Has	ability to plan the sch	edule of individual and team work	and skills required for team ma	anagement - [K_U02 ++]	
2. Kno [K_U03	w how to use available 3 ++]	e resources for completing task re	lated to conducting and docum	enting engineering projects -	
3. Has softwar	a skills required to de re - [K U09 ++]	velop algorithms and applications	in different programming enviro	onments with miscellaneous	
Socia	al competencies:				
1. Can	extend his own knowl	edge and use of modern informat	ion technologies - [K_K01 +]		
2. Can [K_K05	use available resourc 5 +]	es to improve efficiency of engine	er?s work and growth economi	c potential of the company -	
		Assessment metho	ds of study outcomes		

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.

Project:

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:

1. Brozi A., Scilab w przykładac, NAKOM, 2007

2. Lachowicz C.T., Matlab, Scilab, Maxima : opis i przykłady zastosowań, OficynaPO, 2005

3. Meloni J.C., Byrtek A., PHP, MySQL i Apache dla każdego, HELION, 2007

4. Pamuła T., Aplikacje w Delphi : przykłady, MIKOM, 2007

5. Wojtuszkiewicz K., Urządzenia techniki komputerowej ? Część I i II, PWN, 2011

Additional bibliography:

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

1. Taylor D., 101 skryptów w shellu, Helion, 2004

2. Zamojski W., Internet w działalności gospodarczej, oficyna PWr, 2004

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

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