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		STUDY MODULE D	ESCRIPTION FORM				
	f the module/subject			Code 1010822121010822204			
Field of	study		Profile of study	Year /Semester			
Electronics and Telecommunications			(general academic, practical) general academic	1/2			
Elective	path/specialty		Subject offered in:	Course (compulsory, elective)			
	•	Networks and Internet	Polish	elective			
Cycle of study:			Form of study (full-time,part-time)				
	Second-c	ycle studies	full-time				
No. of h	_			No. of credits			
Lectui	0.0000		Project/seminars:	- 5			
Status		program (Basic, major, other) other	(university-wide, from another f	om field			
Educati	on areas and fields of sci			ECTS distribution (number			
				and %)			
techr	nical sciences			5 100%			
	Technical scie	ences		5 100%			
Poen	ancible for cubic	oot / looturor:	Posponsible for subject	et / locturer:			
_	onsible for subje	ect / lecturer.	Responsible for subject	st / lecturer.			
	nż. Mariusz Żal ail: mariusz.zal@put.po	oznan.pl	dr inż. Mariusz Żal email: mariusz.zal@put.po:	znan.pl			
tel.	+48 61 665 3926		tel. +48 61 665 3926	tel. +48 61 665 3926			
	ulty of Electronics and Piotrowo 3A 60-965 Po		Wydział Elektroniki i Teleko ul. Piotrowo 3A 60-965 Poz				
1 1010	Prerequisites in terms of knowledge, skills and social competencies:						
1	Knowledge	Has a basic knowledge of comp algebra of sets and relation alge	uter networks; Has a basic knowledge of C# programming, bra				
2	Skills		nd information in literature, as well as other reference sources; is able to integrate et obtained information, draws conclusions and justifies				
3	Social competencies	Student understands a necessity to acquire a new knowledge and skills stemming from a chosen field of studies.					
Assu	mptions and obj	ectives of the course:					
		abase models, SQL and PL SQL I base optymization and programmi		eded functions and extensions.			
	Study outco	mes and reference to the	educational results for	a field of study			
Knov	vledge:						
Has a systematic knowledge of algebra of sets and relation algebra [K2_W00]							
	a systematic knowled ering problems [K2]	ge, with the necessary theoretical _W03]	background, of optimization m	ethods used in solving			
Skills							
1. Is able to use bibliography in English (books, scientific and technical journals, application notes, catalogs, instructions, recommendations etc.) - [K2_U01]							
2. Can use optimization methods to solve problems in electronics and telecommunications [K2_U05]							
Social competencies:							
evoluti	 Understands the importance of communication for the development of individuals and societies, understands the evolutionary development of networks and telecommunications systems include increased needs of users in the development of telecommunications networks - [K2_K02] 						
2 Kn	ows the limitations of t	heir own knowledge and skills, he	understands the need for furth	er education [K2_K04]			

Assessment methods of study outcomes

Faculty of Electronics and Telecommunications

Forming assessment:

Lectures: Written exam; exam is passed when student receives at least 50% points. Exam can be taken after the completion of excercises.

Exercices and laboratories:

- evaluation and assessment of knowledge increment that need to be effective in solving problems covering all tasks within a given subject area;
- continuous assessment during daily classroom practice rewarding knowledge increment in skills in management of using rules and methods learnt in class.

Course description

Lectures:

Wykłady:

- 1. Definitions: information, data, data processing. Database models. Database management systems.
- 2. Relation algebra.
- 3. SQL basis, views, sequences, trigers, indexes.
- 4. Embeded SQL functions, PL SQL.
- 5. Database users, access to databases.
- 6. Overwiev of DBMS.
- 7. Database applications.

Exercises:

- 1. Database definitions.
- 2. Simple SQL queries.
- 3. Database modifications.
- 4. Exteneded SQL queries.
- 5. PL SQL procedures
- 6. Database applications.

Basic bibliography:

1. Hernandez, Michael J., Database design for mere mortals: a hands-on guide to relational database design, Addison-Wesley 2005

Additional bibliography:

- 1. Jason Price, Oracle Database 11gSQL, McGrawHill 2008
- 2. PL/SQL User?s Guide and Reference, Release 2 (9.2) Part No. A96624-01

Result of average student's workload

Activity	Time (working hours)
1. Lectures	30
2. Exercises	15
3. Laboratories	15
4. Preparation for exercises	15
5. Preparation for tests	5
6. Preparation for laboratories	20
7. Preparation for Exam	10
8. Colsultation	5

Student's workload

Source of workload	hours	ECTS
Total workload	125	5
Contact hours	65	2
Practical activities	65	3