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		STUDY MODULE D	ESCRIPTION FORM	
_	f the module/subject			Code 010334561010330220
Field of	,		Profile of study (general academic, practical)	Year /Semester
Into	mation Enginee	ring	(brak)	3/6
Elective	path/specialty	-	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle o	f study:		Form of study (full-time,part-time)	
First-cycle studies			part-time	
No. of h	ours			No. of credits
Lectu	e: 20 Classes	s: - Laboratory: 8	Project/seminars:	3 4
Status		program (Basic, major, other)	(university-wide, from another fie	ld)
		(brak)	(1	orak)
Educati	on areas and fields of sci	ence and art	,	ECTS distribution (number and %)
techr	nical sciences			4 100%
Technical sciences				4 100%
	recillical Scie	ences		4 100%
ema tel. Wyd ul. F	nż. Andrzej Sikorski ail: andrzej.sikorski@p 6653958 dział Elektryczny Piotrowo 3A 60-965 Po	oznań	d social competencies	
Prere	equisites in term	Programming languages (prefer	<u> </u>	of combinatories and data
1	Knowledge	retrieval, formal logc and set the		or combinatorics and data
2	Skills	Proficiency in some OOP langua	age.	
2	Skills	Basic skills in Operating System	API	
		Ability to solve basic problems in	n data retrieval.	
3	Social competencies	basic social skills expected		
Assu	mptions and obj	ectives of the course:		
SQL p	rogramming, data bas	e modelling, proficiency in Visual	studio and c# programming withi	n the scope of ADONET
	Study outco	mes and reference to the	educational results for a	a field of study
Knov	vledge:			
Skills	<u> </u>			
Socia	al competencies:			
	,			
		Assessment method	ds of study outcomes	
	nation, reports and tes			
the kno	owledge of the student	t will be verified,		
		Course d	escription	

Security and session management. Querying with SQL. Relational operators : projection, selection, grouping and relational join, cross product. Data manipulation statements. Relational division. New and non-standard construct of SQL. Basic DB client appliactions in c#.

Time (working hours)

ECTS

2

Basic bibliography:

Additional bibliography:

1. Lecture	
2. Labs	
3. Contact with lecturer	
4. Work with textbooks	
5. preparations for exercises	
6. lab reports	
Student's wo	rkload
Source of workload	hours
Total workload	100
Contact hours	50
Practical activities	50

Result of average student's workload

Activity