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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 scie	ances		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#.

Basic bibliography:		
Additional bibliography:		
Result of average stud	dent's workload	
Activity	Time (working hours)	
1. Wykład		30
2. Ćwiczenia		15
3. Konsultacje		5
4. Praca z podręcznikiem		20
5. Przygotowanie do lab		15
6. Sprawozdania		15
Student's wo	rkload	
Source of workload	hours	ECTS
Total workload	100	4
Contact hours	50	2
Practical activities	50	2