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		STUDY MODULE D	ESCRIPTION FORM		
_	of the module/subject			Code 1010334561010330220	
Field of	study rmation Enginee	rina	Profile of study (general academic, practical) (brak)	Year /Semester	
	e path/specialty	-	Subject offered in: Polish	Course (compulsory, elective) obligatory	
Cycle c	f study:		Form of study (full-time,part-time)	Obligatory	
	First-cy	cle studies	part-time		
No. of h	nours		No. of credits		
Lectu	re: 20 Classe	8 4			
Status	of the course in the study	program (Basic, major, other)	(university-wide, from another fie	eld) brak)	
Educat	on areas and fields of sc	· /	,	ECTS distribution (number and %)	
techi	nical sciences	4 100%			
	Technical sci	4 100%			
Resr	onsible for subj	ect / lecturer:			
ema tel. Wy ul. I	nż. Andrzej Sikorski ail: andrzej.sikorski@p 6653958 dział Elektryczny Piotrowo 3A 60-965 P	oznań			
Prere	equisites in term	ns of knowledge, skills an	d social competencies:		
1	Knowledge	Programming languages (preferably C++/java), basic knowledge of combinatorics and data retrieval, formal logc and set theory			
2	Skills	Proficiency in some OOP langua	· •		
		Basic skills in Operating System API Ability to solve basic problems in data retrieval.			
3	Social	basic social skills expected	i uata retrieval.		
	competencies				
	•	jectives of the course: se modelling, proficiency in Visual s	studio and c# programming with	in the scope of ADONET	
		omes and reference to the	educational results for	a field of study	
Knov	vledge:				
Skills	 S:				
	-				
Soci	al competencies	:			
		Assessment method	ds of study outcomes		
	nation, reports and tes				
tne kn	owledge of the studer	·	escription		
		gement. Querying with SQL. Relational control of the control of th	onal operators : projection, selec		
	appliactions in c#.	siation statements. Ivolational C			

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Basic bibliography:		
Additional bibliography:		
Result of average stud	dent's workload	
Activity	Time (working hours)	
1. Lecture		30
2. Labs		15
3. Contact with lecturer		5
4. Work with textbooks		20
5. preparations for exercises		15
6. lab reports		15
Student's wo	rkload	
Source of workload	hours	ECTS
Total workload	100	4
Contact hours	50	2
Practical activities	50	2