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		STUDY MODULE D	ESCRIPTION FORM			
	f the module/subject bases			Code 1010334571010330220		
Field of study Information Engineering			Profile of study (general academic, practic (brak)	Year /Semester		
Elective path/specialty			Subject offered in: Polish	С	ourse (compulsory, elective)	
Cycle of study:			Form of study (full-time,part-time)			
First-cycle studies			part-time			
No. of h	ours			N	o. of credits	
Lectur	e: 16 Classe	s: Laboratory:	Project/seminars:	8	4	
Status o	•	program (Basic, major, other) (brak)	(university-wide, from another field) (brak)			
Education areas and fields of science and art				E	CTS distribution (number and %)	
techr	nical sciences			4	100%	
Technical sciences					4 100%	
Wyd ul. F	6653958 dział Elektryczny Piotrowo 3A 60-965 Po equisites in term	oznań ns of knowledge, skills an	d social competencies	s:		
1	Knowledge	Database course in preceding s	emester.			
2	Skills	As covered in preceding course				
3	Social competencies	standard social skills				
Assu	mptions and ob	jectives of the course:				
SQL ar		Multi-tier architecures. Implementa	ation of complex business rule	s with SO	QL and application	
	Study outco	mes and reference to the	educational results for	or a fie	ld of study	
Know	/ledge:					
Skills	: :					
Pacial commetencies.						
Socia	al competencies:					

Assessment methods of study outcomes test and problem assignments verifying proficiency in SQL and c# programming Course description Business application programming. Client server and multi-tier architectures. Complex business rules

Business appliaction programming. Client -server and multi-tier architectures. Complex business rules implementation/specification. Distributed and multi-tier programming. Component oriented transactional servers. CLR/.NET support for distributed progragramming. Transaction processing.

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Basic bibliography:						
Additional bibliography:						
Result of average student's workload						
Activity		Time (working hours)				
1. wykład		30				
2. laboratoria		15				
3. konsultacje		5				
4. Praca z podręcznikiem		20				
5. przygotowanie do ćwiczeń		10				
6. projekt	20					
Student's workload						
Source of workload	hours	ECTS				
Total workload	100	4				
Contact hours	50	2				
Practical activities	50	2				