STUDY MODULE DESCRIPTION FORM						
Name of the module/subject Databases			Code 1010334571010330220			
Field of	f study		Profile of study (general academic, practical)	Year /Semester		
Info	rmation Enginee	ring	(brak)	4/7		
Elective	e path/specialty	-	Subject offered in: Polish	Course (compulsory, elective) obligatory		
Cycle of study:			Form of study (full-time,part-time)			
First-cycle studies			part-time			
No. of I	hours			No. of credits		
Lecture: 16 Classes: - Laboratory: -			Project/seminars: 8	4		
Status		program (Basic, major, other)	(university-wide, from another fiel			
Educat	ion areas and fields of sci	(brak)	(brak)			
Educal	ion areas and lields of sci	ence and an		ECTS distribution (number and %)		
tech	nical sciences			4 100%		
Technical sciences				4 100%		
Resp	oonsible for subj	ect / lecturer:				
	nż. Andrzej Sikorski					
email: andrzej.sikorski@put.poznan.pl						
tel. 6653958 Wydział Elektryczny						
ul. Piotrowo 3A 60-965 Poznań						
Prere	equisites in term	is of knowledge, skills an	d social competencies:			
1	Knowledge	Database course in preceding s	emester.			
2	Skills	As covered in preceding course				
3	Social competencies	standard social skills				
Assı	imptions and obj	ectives of the course:				
SQL a server		Aulti-tier architecures. Implementa	tion of complex business rules wit	h SQL and application		
Study outcomes and reference to the educational results for a field of study						
Knov	wledge:					
Skills	s:					
Social competencies:						
3001	ai competencies:	•				

Assessment methods of study outcomes

test and problem assigments verifying proficiency in SQL and c# programming

Course description

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.

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. student's work textbook	20	
5. preparation for exercises	10	
6. project		20
Student's wo	rkload	
Source of workload	hours	ECTS
Total workload	100	4
Contact hours	50	2
Practical activities	50	2