		STUDY MODULE D	ESCRIPTION FORM			
				Code 1010335431010337155		
Field of			Profile of study	Year /Semester		
Infor	mation Engineer	rina	(general academic, practical	,		
Information Engineering Elective path/specialty			(brak) Subject offered in:	2/3 Course (compulsory, elective)		
LIECTIVE		ation Technologies	polish	obligatory		
Cycle of	Cycle of study: Form of study (full-time,part-time)					
Second-cycle studies			part-time			
No. of h	ours	No. of credits				
Lectur	Lecture: 16 Classes: - Laboratory: 16 Project/seminars: - 5					
Status o	-	program (Basic, major, other)	(university-wide, from another			
		(brak)		(brak)		
Education	on areas and fields of sci	ence and art		ECTS distribution (number and %)		
technical sciences				5 100%		
Responsible for subject / lecturer: dr inż. Jolanta Cybulka email: jolanta.cybulka@put.poznan.pl tel. 0-61 6653724 Wydział Elektryczny ul. Piotrowo 3A 60-965 Poznań						
Prerequisites in terms of knowledge, skills and social competencies:						
	Knowledge	1) Student has knowledge acquired during first-cycle studies.				
1		 Student has relevantly deepened and theoretically grounded knowledge on modeling and analysis of information systems. 				
		· · · · · · · · · · · · · · · · · · ·	3) Student has knowledge on advanced methods and techniques of programming.			
2	Skills	1) Student has skills acquired during first-cycle studies.				
_		2) Student is able to model and analyze information systems.3) Student can - working in a team - specify elements of non-typical or complex information				
		systems.				
3	Social competencies	Student can creatively think and	act.			
Assu	mptions and obj	ectives of the course:				
		students? knowledge concerning r dge to represent and process the				
	Study outco	mes and reference to the	educational results for	a field of study		
Know	/ledge:					
1. Student has knowledge on advanced methods and techniques of programming [K_W08]						
2. Student has basic knowledge on chosen information systems having indicated features or purpose [K_W12]						
3. Student is able to apply advanced tools and technologies of computer engineering [K_U10]						
4. Student can - working in a team - design and implement elements of non-typical or complex information systems - [K_U09]						
Skills: 1. Student is able - when formulating and solving problems in computer engineering - integrate knowledge coming from different areas and scientific disciplines [K_U07]						
	Social competencies:					
1. Student can creatively think and act [K_K01]						

Assessment methods of study outcomes

Lecture: writing test with ratings, minimal score 50,1%

Laboratory: rating of the presented ontological module accompanied by the information system whose conceptual basis is the ontology, and rating of the ontology&system?s documentation.

Course description

Lecture:

The notion of a well-founded ontology and its examples. Hints of how to create such ontologies, its designing and implementation methodologies and tools. Well-founded ontologies applications. ?Ontologized?, publicly available on the Internet data bases, their creation methods and principles of operation.

Laboratory:

Data semantics modeling via well-founded ontologies. Applying of the created model in the process of ontology-driven creation of elements of an information system.

Basic bibliography:

1. Papers on methods and tools of ontology creation (detailed information given during lectures).

2. Internet portals concerned with ontology creation supporting tools and demos (detailed information given during lectures).

Additional bibliography:

1. Staab S., Studer R. (eds): Handbook on Ontologies, Second Edition, Springer, 2009.

Result of average stu	dent's workload	
Activity	Time (working hours)	
1. lecture		16
2. laboratory	16	
3. exam and consulting hours with the teacher	18	
4. preparation for exam	41	
5. preparation for laboratory	34	
Student's wo	orkload	
Source of workload	hours	ECTS
Total workload	125	5
Contact hours	50	2
Practical activities	50	2