		STUDY MODULE D	ESCRIPTION FORM		
Name o Cont	f the module/subject temporary intern	et technologies		Code 1010335531010337155	
Field of	study mation Enginee	rina	Profile of study (general academic, practical) <b>(brak)</b>	Year /Semester	
Elective	path/specialty		Subject offered in:	Course (compulsory, elective)	
	Inform	ation Technologies	Polish	obligatory	
Cycle of	f study:		Form of study (full-time,part-time)		
	Second-c	ycle studies	part-time		
No. of h	ours			No. of credits	
Lecture: 16 Classes: - Laboratory: 16			Project/seminars:	- 5	
Status o	of the course in the study	program (Basic, major, other)	(university-wide, from another field)		
		(brak)		(brak)	
Educati	on areas and fields of sci	ence and art		ECTS distribution (number and %)	
techr	nical sciences			5 100%	
Technical sciences				5 100%	
dr ir ema tel. Wyo	onsible for subje nž. Jolanta Cybulka ail: jolanta.cybulka@pu 0-61 6653724 dział Elektryczny	ect / lecturer: ut.poznan.pl			
ul. F	piotrowo 3A 60-965 Po equisites in term	oznań Is of knowledge, skills and	d social competencies:		
		1. Student has knowledge asgui			
1	Knowledge	<ol> <li>Student has knowledge acqui</li> <li>Student has relevantly deeper analysis of information systems.</li> </ol>	ned and theoretically grounded	knowledge on modeling and	
		3. Student has knowledge on advanced methods and techniques of programming.			
2	Skills	1. Student has skills acquired during first-cycle studies.			
		<ol> <li>Student is able to model and analyze information systems.</li> <li>Student can - working in a team - specify elements of non-typical or complex information</li> </ol>			
	Secial	systems.	act		
3	competencies		acı.		
Δςςιι	motions and obi	ectives of the course:			
The maskills in	ain goal is to deepen s applying this knowled	students? knowledge concerning n dge to represent and process the s	ovel standards of the Semantic semantics of data on the Intern	: Web and also widening their et.	
	Study outco	mes and reference to the	educational results for	a field of study	
Knov	vledge:				
1. Stuc	lent has knowledge or	n advanced methods and techniqu	es of programming [K_W08]		
2. Stuc	lent has basic knowled	dge on chosen information system	s having indicated features or	ourpose [ K_W12]	
Skills	5:				
1. Stuc differer	lent is able - when for nt areas and scientific	mulating and solving problems in o disciplines [K_U07]	computer engineering - integrat	e knowledge coming from	
2. Stuc	lent is able to apply ac	dvanced tools and technologies of	computer engineering [K_U	10]	
3. Stuc [K_U09	lent can - working in a 9]	team - design and implement ele	ments of non-typical or comple	x information systems	
Socia	al competencies:				
1. Stuc	lent can creatively thir	nk and act [K_K01]			
		Assessment method	ds 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. Artykuły naukowe opisujące metody i narzędzia wytwarzania ontologii (szczegółowe informacje podawane w kolejnych edycjach wykładu).

2. Portale internetowe poświęcone narzędziom wspomagającym budowanie ontologii oraz demo tych narzędzi (podawane każdorazowo na wykładzie)

### Additional bibliography:

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

Result of average student's workload					
Activity	Time (working hours)				
1. lecture	15				
2. laboratory	15				
3. exam and consultations	20				
4. preparation for exam	40				
5. preparation for laboratory	35				
Student's workload					
Source of workload	hours	ECTS			
Total workload	125	5			
Contact hours	50	2			
Practical activities	50	2			