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		STUDY MODULE D	ESCRIPTION FORM		
Name of the module/subject Contemporary internet technologies				Code 1010335531010337155	
Field of	study		Profile of study	Year /Semester	
Infor	mation Enginee	ring	(general academic, practical) (brak)	2/3	
	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	
Lectur	re: 16 Classes	s: - 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 %)	
technical sciences				5 100%	
ema tel. Wyd	nż. Jolanta Cybulka ail: jolanta.cybulka@pu 0-61 6653724 dział Elektryczny Piotrowo 3A 60-965 Po				
		s of knowledge, skills and	d social competencies:		
	Knowledge	Student has knowledge acquired during first-cycle studies.			
1		Student has relevantly deepened and theoretically grounded knowledge on modeling and analysis of information systems.			
		Student has knowledge on advanced methods and techniques of programming.			
2	Skills	Student has skills acquired during first-cycle studies.			
_	Okillo	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	Student can creatively think and	act.		
5	competencies				
Assu	mptions and obj	ectives of the course:			
		students? knowledge concerning r dge to represent and process the s			
	Study outco	mes and reference to the	educational results for	a field of study	
Knov	vledge:				
1. Stud	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	purpose [K_W12]	
Skills	s:				
1. Stud	lent is able - when for	mulating and solving problems in o	computer engineering - integrat	te knowledge coming from	

different areas and scientific disciplines. - [K_U07]

- 2. Student is able to apply advanced tools and technologies of computer engineering. [K_U10]
- 3. Student can working in a team design and implement elements of non-typical or complex information systems. -[K_U09]

Social competencies:

1. Student can creatively think and act. - [K_K01]

Assessment methods of study outcomes

Faculty of Electrical Engineering

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. Thematic internet portals.

Additional bibliography:

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