

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Representation of semantics in WEB		Code 1010332531010337157
Field of study Information Engineering	Profile of study (general academic, practical) (brak)	Year /Semester 2 / 3
Elective path/specialty Information Technologies	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: Second-cycle studies	Form of study (full-time, part-time) full-time	
No. of hours Lecture: 15 Classes: - Laboratory: 30 Project/seminars: -		No. of credits 5
Status of the course in the study program (Basic, major, other) (brak)		(university-wide, from another field) (brak)
Education areas and fields of science and art		ECTS distribution (number and %)
Responsible for subject / lecturer: dr Jerzy Bartoszek email: jerzy.bartoszek@put.poznan.pl tel. 665-3724, 665-3729 Wydział Elektryczny ul. Piotrowo 3A 60-965 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	The student has the knowledge equivalent to first degree studies in the field of Internet technology.
2	Skills	The student has the skills equivalent to first degree studies in the field of Internet technology.
3	Social competencies	The student has the social skills equivalent to first degree studies.
Assumptions and objectives of the course: Presentation of the contemporary ways of representing the semantics in Web.		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. The student has knowledge of current trends in computer applications and key related problems. - [K_W06] 2. The student has knowledge of the development trends and the most important new developments in information technology. - [K_W14]		
Skills:		
1. Student is able - in formulating and solving IT problems - integrate knowledge from different fields and disciplines. - [K_U07] 2. Student is able - by working in a team - build specification fragments of unusual or complex systems. - [K_U08]		
Social competencies:		
1. Student is able to think and act in a creative and enterprising way. - [K_K01]		
Assessment methods of study outcomes		
Lectures: written test of the bulleted questions; passed from 50.1% points Laboratory: evaluation of the laboratory exercises and reports		
Course description		

<p>Lectures: Presentation of the standard ways of expressing the relationship between web pages to allow machinery and people can understand the meaning of hyperlinked information: RDF, RDF Schema, OWL. Laboratory: Semantic description of selected data.</p>		
<p>Basic bibliography: 1. http://semanticweb.org 2. http://www.w3.org/2001/sw/</p>		
<p>Additional bibliography: 1. https://github.com/utapyngo/owl2vcs/#contents</p>		
<p>Result of average student's workload</p>		
<p>Activity</p>	<p>Time (working hours)</p>	
<p>1. Participation in lectures 2. Participation in labs. 3. Consultations 4. Preparation for laboratory classes 5. Preparation of reports 6. Preparation for tests</p>	<p>15 30 5 30 30 15</p>	
<p>Student's workload</p>		
<p>Source of workload</p>	<p>hours</p>	<p>ECTS</p>
Total workload	125	5
Contact hours	50	2
Practical activities	90	3