

<b>STUDY MODULE DESCRIPTION FORM</b>		
Name of the module/subject <b>Representation of semantics in WEB</b>		Code <b>1010332431010337157</b>
Field of study <b>Information Engineering</b>	Profile of study (general academic, practical) <b>(brak)</b>	Year /Semester <b>2 / 3</b>
Elective path/specialty <b>Information Technologies</b>	Subject offered in: <b>polish</b>	Course (compulsory, elective) <b>obligatory</b>
Cycle of study: <b>Second-cycle studies</b>	Form of study (full-time, part-time) <b>full-time</b>	
No. of hours Lecture: <b>1</b> Classes: <b>-</b> Laboratory: <b>2</b> Project/seminars: <b>-</b>		No. of credits <b>5</b>
Status of the course in the study program (Basic, major, other) <b>(brak)</b>		(university-wide, from another field) <b>(brak)</b>
Education areas and fields of science and art <b>technical sciences</b>		ECTS distribution (number and %) <b>5 100%</b>
<b>Responsible for subject / lecturer:</b>  dr Jerzy Bartoszek email: jerzy.bartoszek@put.poznan.pl tel. 665-3724, 665-3729 Wydział Elektryczny ul. Piotrowo 3A 60-965 Poznań		
<b>Prerequisites in terms of knowledge, skills and social competencies:</b>		
1	<b>Knowledge</b>	The student has the knowledge equivalent to first degree studies in the field of Internet technology.
2	<b>Skills</b>	The student has the skills equivalent to first degree studies in the field of Internet technology.
3	<b>Social competencies</b>	The student has the social skills equivalent to first degree studies.
<b>Assumptions and objectives of the course:</b> Presentation of the contemporary ways of representing the semantics in Web.		
<b>Study outcomes and reference to the educational results for a field of study</b>		
<b>Knowledge:</b>		
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]		
<b>Skills:</b>		
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]		
<b>Social competencies:</b>		
1. Student is able to think and act in a creative and enterprising way. - [K_K01]		
<b>Assessment methods of study outcomes</b>		
Lectures: written test of the bulleted questions; passed from 50.1% points Laboratory: evaluation of the laboratory exercises and reports		
<b>Course description</b>		

<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><b>Basic bibliography:</b>                  1. <a href="http://semanticweb.org">http://semanticweb.org</a>                  2. <a href="http://www.w3.org/2001/sw/">http://www.w3.org/2001/sw/</a></p>		
<p><b>Additional bibliography:</b>                  1. <a href="https://github.com/utapyngo/owl2vcs/#contents">https://github.com/utapyngo/owl2vcs/#contents</a></p>		
<p><b>Result of average student's workload</b></p>		
<p><b>Activity</b></p>	<p><b>Time (working hours)</b></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><b>Student's workload</b></p>		
<p><b>Source of workload</b></p>	<p><b>hours</b></p>	<p><b>ECTS</b></p>
Total workload	125	5
Contact hours	50	2
Practical activities	90	3