STUDY MODULE DESCRIPTION FORM

Name of the module/subject	Code
Representaion of semantics in WEB	**1010335441010337157**

Field of study	Profile of study (general academic, practical)	Year /Semester
Information Engineering	**(brak)**	**2 / 4**
Elective path/specialty	**Subject offered in:**	**Course (compulsory, elective)**
Information Technologies	**polish**	**obligatory**

Cycle of study:	Form of study (full-time,part-time)
Second-cycle studies	**part-time**

No. of hours	No. of credits
Lecture: **8** Classes: **-** Laboratory: **16** Project/seminars: **-**	**5**

Status of the course in the study program (Basic, major, other)	(university-wide, from another field)
(brak)	**(brak)**

Education areas and fields of science and art	ECTS distribution (number and %)
technical sciences	**5 100%**

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

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.

Basic bibliography:

1. http://semanticweb.org
2. http://www.w3.org/2001/sw/

Additional bibliography:

1. https://github.com/utapyngo/owl2vcs/#contents

Result of average student's workload

Activity	Time (working hours)
1. Paricipation in lectures	8
2. Participation in labs.	16
3. Consultations	5
4. Preparation for laboratory classes	30
5. Preparation of reports	30
6. Preparation for tests	35

Student's workload

Source of workload	hours	ECTS
Total workload	124	5
Contact hours	24	1
Practical activities	90	3