STUDY MODULE DESCRIPTION FORM

Name of the module/subject		Code
WWW Technologies		**1010802121010812900**
Field of study	Profile of study (general academic, practical)	Year /Semester
Electronics and Telecommunications	**general academic**	**1 / 2**
Elective path/specialty	Subject offered in:	Course (compulsory, elective)
Information and Communication	**English**	**elective**
Cycle of study:	Form of study (full-time,part-time)	
Second-cycle studies	**full-time**	
No. of hours		No. of credits
Lecture: **2** Classes: **-** Laboratory: **2** Project/seminars: **-**		**5**
Status of the course in the study program (Basic, major, other)	(university-wide, from another field)	
major	**from field**	
Education areas and fields of science and art		ECTS distribution (number and %)
technical sciences		**5 100%**
Technical sciences		**5 100%**

Responsible for subject / lecturer:

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Prerequisites in terms of knowledge, skills and social competencies:

1	**Knowledge**	Students starting this course should have a basic knowledge of programming in high level languages??. [K1_W09]
2	**Skills**	Must have programming skills in high level languages. [K1_U13]
3	**Social competencies**	He should understand the need to expand their competences / have a willingness to work together as a team. Moreover, the social skills the student must present such attitudes as honesty, responsibility, perseverance, cognitive curiosity, creativity, manners, respect for other people. [K2_K04]

Assumptions and objectives of the course:

The aim of the course is to familiarize students with issues related to the creation and use of web applications and principles of the presentation of information on the Internet.

Study outcomes and reference to the educational results for a field of study

Knowledge:

1. He has ordered, mathematical underpinnings extensive knowledge in the field of telecommunication networks and ways to transfer information. - [K2_W13]
2. He has in-depth knowledge of the construction and operation of telecommunications systems for the provision of multimedia services - [K2_W01]
3. It has a basic knowledge of management, including quality management, protection of intellectual property, patent law and the technical and economic and social engineer - [K2_W15]

Skills:

1. Able to design, build, program and test complex and technically advanced systems and electronic systems with particular emphasis on the needs of the equipment and telecommunication systems and networks. - [K2_U15]

Social competencies:

1. Understands the importance of the information society for development of the country. - [K2_K02]
2. He knows the limitations of their knowledge and skills, understands the need for ongoing education. - [K2_K04]
3. Can formulate opinions on the key challenges facing the electronics and telecommunications twenty-first century. - [K2_K07]

Assessment methods of study outcomes

Forming Rating:

a) In the lecture:

based on answers to questions about the material discussed in the previous lectures,

for laboratory / classes:

based on an assessment of the progress of the task,

Rating summary:

a) in respect of lectures to verify the assumed effects of education is provided by:

assessment of knowledge and skills listed on the written test for a problematic, (5 questions with 25 questions available, the maximum score of 50 points, the allocation of 27 points).

discuss the results of the examination,

b) in the laboratory / exercise to verify the assumed effects of education is provided by:

continuous assessment for each course (oral response) - favoring growth skills have met the principles and methods

assessment report prepared partly in the classroom and partly after the end of the appraisal also includes the ability to work in a team,

Course description

1. Basis of presentation of information on the Internet.
2. Information description language HTML, HTML4 and HTML5
3. XML and its applications
4. The rules for creating Internet applications.
5. PHP
6. PHP library - and templates
7. MySql database - structure, queries, working with the HTTP server.
8. The HTTP protocol and HTTP servers, Apache web server.
9. Protocols and standards for the exchange of information on the Internet.
10. Methods and languages ??to create interactive websites
11. Language JavaScrip and techniques JQuery
12. Project Templates.
13. Methods for testing web applications.
14. Methods and tools for gathering information about the user's activity.
15. Issues of privacy and protection of information on the Internet.
16. Methods of Internet transaction security.

Basic bibliography:

1. PHP and MySQL Web Development (5th Edition) by Luke Welling and Laura Thomson (Jan 7, 2014)
2. http://www.w3schools.com/
3. MySQL (5th Edition) (Developer's Library) by Paul DuBois (Apr 12, 2013)
4. Beginning XML, 5th Edition by Joe Fawcett, Danny Ayers and Liam R. E. Quin (Jul 10, 2012)

Additional bibliography:

1. Sams Teach Yourself PHP, MySQL and Apache All in One (5th Edition) by Julie Meloni (Jun 8, 2012)
2. Smarty PHP Template Programming And Applications by Hasin Hayder, J. P. Maia and Lucian Gheorghe (Apr 30, 2006)

Result of average student's workload

Activity	Time (working hours)
1. participation in lectures	30
2. laboratory classes	30
3. preparation for laboratory exercise	15
4. completion of laboratory reports	15
5. Literature studies	10
6. Preparation to the examination	20
7. Consulting with teachers	3
8. Exam	2

Student’s workload

Source of workload	hours	ECTS
Total workload	125	5
Contact hours	65	3
Practical activities	60	2