STUDY MODULE DESCRIPTION FORM

Name of the module/subject **Information technology**		Code **1010804131010830565**
Field of study **Electronics and Telecommunications**	Profile of study (general academic, practical) **general academic**	Year /Semester **2 / 3**
Elective path/specialty **-**	Subject offered in: **Polish**	Course (compulsory, elective) **obligatory**
Cycle of study: **First-cycle studies**	Form of study (full-time,part-time) **part-time**	

No. of hours				No. of credits **2**
Lecture: **-** Classes: **-** Laboratory: **20** Project/seminars: **-**				

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

Education areas and fields of science and art **technical sciences** **Technical sciences**	ECTS distribution (number and %) **2 100%** **2 100%**

Responsible for subject / lecturer:

dr inż. Sławomir Michalak
email: michalak@et.put.poznan.pl
tel. +48 616653824
Faculty of Electronics and Telecommunications
ul. Piotrowo 3A 60-965 Poznań

Prerequisites in terms of knowledge, skills and social competencies:

1	**Knowledge**	Has a basic knowledge of the fundamentals of computer and applications, together with necessary mathematical background. Has a basic knowledge about internet security and anti virus programs.
2	**Skills**	Is able to extract information from Polish or English language literature, databases and other sources. Is able to use computer, basic applications, can work with files, folders, peripheral computer devices.
3	**Social competencies**	Is aware of the limitations of his knowledge and skills; is committed to further self-study. Is active in solving computer problems. Is able to consulting in group.

Assumptions and objectives of the course:

Libre Office or Microsoft programs: Writer - a word processor, Calc - a spreadsheet program, similar to Microsoft Excel with a number of unique features, including a system which automatically defines series of graphs, based on information available to the user, DDE (Dynamic Data Exchange), Base - a database management program, similar to Microsoft Access. Creation and management of databases, preparation of forms and reports that provide end users easy access to data (data sources, and MySQL). Impress - a presentation program resembling Microsoft PowerPoint. Creating WWW pages.

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

Knowledge:

1. Has a systematic knowledge of computer architecture. Has a systematic knowledge of microcontroller, microprocessor and microprocessor system architecture and programming in assembly language, and architecture and programming of specialized processors. - [K1_W13]

2. Has a systematic knowledge of operating systems and data bases.   Has the knowledge of computer resource management and protection technologies. - [K1_W23]

3. Knows about development trends in electronics and telecommunication. - [K1_W24]

Skills:

1. Is able to extract information from Polish or English language literature, databases and other sources. Is able to synthesize gathered information, draw conclusions, and justify opinions. - [K1_U01]

2. Is able to communicate in English or in Polish in the professional environment and other environments. - [K1_U02]

3. Is able to prepare an oral presentation on particular issues in electronics and telecommunication (in Polish or in English). - [K1_U04]

4. Is capable of studying autonomously. - [K1_U05]

Social competencies:
1. Is aware of the limitations of his/her current knowledge and skills; is committed to further self-study. - [K1_K01]
2. Demonstrates responsibility and professionalism in solving technical problems. Is able to participate in collaborative projects. - [K1_K02]

Assessment methods of study outcomes
1. Projects
2. Reports from laboratory execercises
3. Activity durning labs

Course description
- Computer interfaces, computer network.
- Text editors, calculations, DDE connections, data bases.
- Multimedia presentations.
- Networks and IT services.
- Creating WWW (HTML) pages, Java scripts.

Basic bibliography:

1. Dziewoński M., OpenOffice 3.x PL. Oficjalny podręcznik, Helion, Gliwice, 2009.

2. Langer M., Po prostu Word 2003 PL, Helion, Gliwice, 2004.

3. Kuciński K., ABC Excela, Editio 2000, Kraków, 2007.

4. Gajda W., HTML, XHTML i CSS. Praktyczne projekty, Helion, Gliwice, 2011.

Additional bibliography:

1. Dudek W., Bazy danych SQL, Teoria i praktyka, Helion, Gliwice, 2006.

2. Mendrala D, Szeliga M., Access 2010 PL. Kurs, Helion, Gliwice, 2010.

3. Ross J., PHP i HTML. Tworzenie dynamicznych stron WWW, Helion, Gliwice 2010.

Result of average student's workload	
Activity	**Time (working hours)**
1. Lectures	20
2. Labs and reports	20
3. Project	10

Student's workload		
Source of workload	**hours**	**ECTS**
Total workload	50	2
Contact hours	25	1
Practical activities	35	1