

<b>STUDY MODULE DESCRIPTION FORM</b>		
Name of the module/subject <b>Information Technology</b>		Code <b>1011101411011161956</b>
Field of study <b>Logistics - Full-time studies - First-cycle studies</b>	Profile of study (general academic, practical) <b>general academic</b>	Year /Semester <b>1 / 1</b>
Elective path/specialty <b>-</b>	Subject offered in: <b>Polish</b>	Course (compulsory, elective) <b>obligatory</b>
Cycle of study: <b>First-cycle studies</b>	Form of study (full-time, part-time) <b>full-time</b>	
No. of hours Lecture: <b>15</b> Classes: <b>-</b> Laboratory: <b>15</b> Project/seminars: <b>-</b>		No. of credits <b>2</b>
Status of the course in the study program (Basic, major, other) <b>other</b>		(university-wide, from another field) <b>university-wide</b>
Education areas and fields of science and art <b>technical sciences</b>		ECTS distribution (number and %) <b>2 100%</b>
<b>Responsible for subject / lecturer:</b>  dr inż. Aleksander Jurga email: aleksander.jurga@put.poznan.pl tel. 616653388 Wydział Inżynierii Zarządzania ul. Strzelecka 11, 60-965 Poznań		
<b>Prerequisites in terms of knowledge, skills and social competencies:</b>		
1	<b>Knowledge</b>	Basic knowledge of secondary school
2	<b>Skills</b>	Basic computer literacy
3	<b>Social competencies</b>	Able to work in computer laboratory group
<b>Assumptions and objectives of the course:</b> -Students should achieve fluency in spreadsheet calculations, especially in engineering and planning. They should be able to prepare technical reports and documentation in the form of Web pages. They should understand the difference between logical structure of a document and its graphical view and formatting. Understand the structure of an HTML document and the rules for applying CSS.		
<b>Study outcomes and reference to the educational results for a field of study</b>		
<b>Knowledge:</b>		
1. Students are able to describe means for logical structure definition and print and screen formatting in office editors and HTML documents. - [(T1A_W02) K1A_W09]		
2. Students understand the terminology of Web page construction and operation - [[[T1A_W02) K1A_W10]]		
3. Students can describe the range of optimization problems that can be solved in spreadsheet applications - [[(InzA_W05) KInzA_W05]]		
<b>Skills:</b>		
1. Students are able to prepare Web pages appropriate for technical and scientific contents. - [[[T1A_W02) K1A_W09]]		
2. Students are able to solve a variety of spreadsheet tractable problems - [(T1A_W02) K1A_W10]		
3. Students are able to use problem solving applications for optimization problems - [(T1A_U09) K1A_U09 i (T1A_U14) K1A_U14]		
<b>Social competencies:</b>		
1. Is aware of computer data security and the interests and rights of their users - [(T1A_KO2) K1A_K02]		
2. Understanding the risk to the interests of third parties who lack the imagination and diligence in the process of designing applications and computer documents - [(T1A_KO2) K1A_K02]		
<b>Assessment methods of study outcomes</b>		

<p>Formative assessment:</p> <p>a) in the field of lectures: written test at the end of the lecture cycle.</p> <p>b) in the field of laboratory classes: implementation of exercises.</p> <p>Summary:</p> <p>a) in the field of lectures: score based on scores for each question.</p> <p>b) in the field of laboratory classes: the average of grades from partial tests.</p>		
<b>Course description</b>		
<p>Lectures:</p> <p>Basic information concepts. Acquisition and processing of information. Cryptography, information security, digital signature. Components and construction of a computer network. Proper understanding of terms related to work in a network environment. Services in IT networks, history of the Internet, Internet services. Basic tools of the MS Office package. Text documents and spreadsheets in engineering and business practice. Rules for creating and publishing documents in traditional circulation and on the Internet. Creating simple HTML documents and publishing them on a web server. Ways of defining the logical structure and appearance of documents, eg: office editors, printer control languages, and HTML. Construction of HTML / CSS and XML / XSLT documents.</p> <p>Laboratories:</p> <p>A series of computational tasks in a spreadsheet with particular emphasis on conditional functions and databases. Transport task as an example of an optimization task using Solver. Preparation of an HTML page with a technical report.</p> <p>Didactic methods:</p> <p>-Information lecture.</p> <p>-Work with a book.</p> <p>-Demonstration method.</p> <p>-Laboratory method.</p>		
<p><b>Basic bibliography:</b></p> <p>1. Jurga A., Wybrane aspekty niwelacji luki informacyjnej oraz jej wpływ na użyteczność informacji. Case study. [w]: Woźniak M. (red.), Społeczeństwo informacyjne ? technologie, informacja i wiedza w gospodarce. Zeszyty Naukowe nr 35. Nierówności społeczne a wzrost gospodarczy. Wyd. Uniwersytetu Rzeszowskiego, Rzeszów, 2013, s. 226-236</p> <p>2. Wróblewski P., Microsoft Office 2007 PL w biurze i nie tylko, Helion, Gliwice, 2007</p> <p>3. Krysiak.K., Sieci komputerowe : kompendium : kompletne omówienie zagadnień sieci komputerowych: typologie i nośniki, sieci bezprzewodowe, usługi sieciowe i protokoły, administrowanie siecią, bezpieczeństwo w sieciach, Helion, Gliwice, 2005</p> <p>4. Walkenbach J. Excel 2010 PL. Najlepsze sztuczki i chwytły. Vademecum Walkenbacha, Wyd. Helion , 2012</p> <p>5. Tomaszewska A., Tworzenie stron WWW. Ilustrowany przewodnik. Wydanie II, Wyd. Helion 2011</p>		
<p><b>Additional bibliography:</b></p> <p>1. Karpiński M., Kurytnik I. P., Sieci komputerowe - bezpieczeństwo. Cz. 1, Metody i systemy kryptograficzne, Wyd. Akademii Techniczno-Humanistycznej, Bielsko-Biała, 2006.</p> <p>2. Krzyżaniak S., Podstawy, zarządzania zapasami w przykładach, Instytut Logistyki i Magazynowania, Poznań, 2008.</p>		
<b>Result of average student's workload</b>		
<b>Activity</b>		<b>Time (working hours)</b>
1. Participation in lectures		15
2. Laboratory classes		15
3. Preparation for the final credits		15
4. Home assignment		5
<b>Student's workload</b>		
<b>Source of workload</b>	<b>hours</b>	<b>ECTS</b>
Total workload	50	2
Contact hours	30	1
Practical activities	15	1