|  |   | STUDY MODULE DE  | ESCRIPTION FORM  |                                |  |
|--|---|--|--|--------------------------------|--|
|  | f the module/subject<br><b>net Technologie</b>      | s and Services   | Code<br>1011105311011005283  |                                |  |
| Field of study<br>Engineering Management - Part-time studies -   |   |  | Profile of study<br>(general academic, practica<br><b>(brak)</b>   | Year /Semester                 |  |
| Elective path/specialty  |   |  | Subject offered in:  | Course (compulsory, elective)  |  |
|  |   | d Operations Managemen   |  | elective                       |  |
| Cycle of   | f study:  |  | Form of study (full-time,part-time   | )                              |  |
|  | Second-c  | ycle studies   | part-time  |                                |  |
| No. of hours   |   |  |  | No. of credits                 |  |
| Lecture: 12 Classes: - Laboratory: -   |   |  | Project/seminars:  | - 2                            |  |
| Status o   | -   | program (Basic, major, other)  | (university-wide, from another   | ,                              |  |
| Educati  | on areas and fields of sci                          | (brak)   | (brak)<br>ECTS distribution (number  |                                |  |
| Euucau   |   |  |  | and %)                         |  |
| Resp   | onsible for subj                                    | ect / lecturer:  | Responsible for subje  | ect / lecturer:                |  |
| dr Ryszard Danecki<br>email: Ryszard.Danecki@put.poznan.pl<br>tel. (+4861)6653388<br>Faculty of Engineering Management |   |  | dr inż. Zbigniew Włodarczak<br>email: Zbigniew.Wlodarczak@put.poznan.pl<br>tel. (+4861) 665 33 87<br>Faculty of Engineering Management |                                |  |
| Strz   | elecka Str. 11, 60-965                              | 5  | Strzelecka Str. 11, 60-965   | o Poznań                       |  |
| Field  |   |  |  |                                |  |
| 1  | Knowledge   | First cycle study courses on computer science and information technology. Preferably this should include preliminary knowledge of HTML documents, programming language assignment and control instructions, being familiar with relational data bases. |  |                                |  |
| 2  | Skills  | Preferably: ability to prepare simp<br>structural programming language   | ple HTML documents, understand simple programs in<br>e.  |                                |  |
| 3  | Social competencies                                 | Interests in technologies that und   | lerlay everyday operation of r   | network devices.               |  |
| Assu   | mptions and obj                                     | ectives of the course:   |  |                                |  |
| concept regard   | ot of net services, from<br>ed both as a self conta | s twofold: to give students knowled<br>the early stages of client server pl<br>ained course or as a supporting or<br>b applications design.  | rogramming to modern Web   | services paradigm. This may be |  |
|  | Study outco   | mes and reference to the   | educational results fo   | r a field of study             |  |
|  | vledge:   |  |  |                                |  |
|  | y should be able to ch                              | the Internet protocol stack archited<br>aracterize main Web design techno  |  |                                |  |
| -  | -   | the concepts of Web services and   | semantic Internet [K2A_W(  | 08]                            |  |
|  |   | ic cryptographic concepts and und  | lerstand their role in the comp  | outer security technologies    |  |
| [K2A_\<br>Skills   |   |  |  |                                |  |
| 1. Stuc  | -   | configure their network environme  | nt and to manage several typ   | e of connections between       |  |
| •  | • –   | l correct typical errors that appear   | while updating Websites on a   | server [K2A_U06]               |  |
|  |   | aces between layers of Web applic  | ations [K2A_U06]   |                                |  |
|  | al competencies:                                    |  |  |                                |  |
| 1. Stuc  | tents should be aware                               | of responsible use of the Internet   | applications and resources.  | - [K2A_K05 K2A_K06 ]           |  |
|  |   | Assessment method  | Is of study outcomes   |                                |  |

| -Written and oral presentations on key topics.   |                 |                         |
|--|-----------------|-------------------------|
| Course desc  | ription         |                         |
| -Lectures:   |                 |                         |
| The challenges of internetworking. TCP/IP protocol stack. The evolu standards for Web design. XML and Web ontology. The concept of cryptographical basis for network security. |                 |                         |
| Basic bibliography:  |                 |                         |
|  |                 |                         |
| Additional bibliography:   |                 |                         |
|  |                 |                         |
| Result of average stud   | lent's workload |                         |
|  |                 |                         |
| Activity   |                 | Time (working<br>hours) |
| 1. Participation in lectures   |                 | 12                      |
| 2. Preparation for the final credits   | 6               |                         |
| 3. Home assignments  | 6               |                         |
| Student's wo   | rkload          |                         |
| Source of workload   | hours           | ECTS                    |
| Total workload   | 24              | 2                       |
| Contact hours  | 12              | 1                       |
| Practical activities   | 0               | 0                       |