

| <b>STUDY MODULE DESCRIPTION FORM</b>   |   |   |
|--|---|---|
| Name of the module/subject<br><b>IT Systems Transition</b>   |   | Code<br><b>1011101251011164056</b>  |
| Field of study<br><b>Engineering Management - Full-time studies -</b>  | Profile of study (general academic, practical)<br><b>(brak)</b> | Year /Semester<br><b>3 / 5</b>  |
| Elective path/specialty<br><b>-</b>  | Subject offered in:<br><b>Polish</b>                            | Course (compulsory, elective)<br><b>elective</b>  |
| Cycle of study:<br><b>First-cycle studies</b>  | Form of study (full-time,part-time)<br><b>full-time</b>         |   |
| No. of hours<br>Lecture: <b>15</b> Classes: <b>15</b> Laboratory: <b>-</b> Project/seminars: <b>-</b>  |   | No. of credits<br><b>4</b>  |
| Status of the course in the study program (Basic, major, other)<br><b>(brak)</b>   |   | (university-wide, from another field)<br><b>(brak)</b>  |
| Education areas and fields of science and art<br><b>technical sciences</b><br><b>Technical sciences</b>  |   | ECTS distribution (number and %)<br><b>4 100%</b><br><b>4 100%</b>  |
| <b>Responsible for subject / lecturer:</b><br><br>dr inż.Andrzej Borucki<br>email: andrzej.borucki@put.poznan.pl<br>tel. 061 665 33 71<br>Wydział Inżynierii Zarządzania<br>ul. Strzelecka 11, 60-965 Poznań           |   |   |
| <b>Prerequisites in terms of knowledge, skills and social competencies:</b>  |   |   |
| 1  | <b>Knowledge</b>  | Basic course in the computer management systems design  |
| 2  | <b>Skills</b>   | Efficient use of design supporting tools from Visio and skill from the range of database design                     |
| 3  | <b>Social competencies</b>                                      | Understanding of the need of skills from the area of design and management of the information system implementation |
| <b>Assumptions and objectives of the course:</b><br>The course is aimed at presenting students methods and case studies from the scope of software engineering applied in the design of information management systems |   |   |
| <b>Study outcomes and reference to the educational results for a field of study</b>  |   |   |
| <b>Knowledge:</b>  |   |   |
| 1. The student knows instruments for amassing, processing data and selecting and distributing information - [K2A_W22, K04-InzA_W2]   |   |   |
| 2. The student has basic knowledge on information life cycle in information management systems - [K03-InzA_W1]   |   |   |
| 3. The student has basic knowledge necessary for understanding software engineering methods in context of engineering tasks - [K05-InzA_W3]  |   |   |
| <b>Skills:</b>   |   |   |
| 1. The student is able to plan, simulate, interpret and draw conclusions from the range of software engineering - [K01-InzAU1]   |   |   |
| <b>Social competencies:</b>  |   |   |
| 1. The student is aware of the responsibility for own work and he is ready to follow rules of the team work and taking responsibility for tasks realized within the group - [K1A_K02]                                  |   |   |
| 2. The student is able to notice relations causally consecutive in the realization of put purposes and put the importance of alternative or competitive objectives into proper hierarchy - [K1A_K03, K01-InzA_K2]      |   |   |
| <b>Assessment methods of study outcomes</b>  |   |   |

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|---|-----------------------------|-------------|
| <p>Forming assessment:<br/>                 Project: evaluation of current progress of the construction of a logical model of an application prepared within classes on Access database<br/>                 Lecture: questions asked during the lecture, which refer to previous lectures on the subject<br/>                 Final assessment:<br/>                 Project: Final evaluation of the logical project of the application prepared along the course of project classes from the range of Access databases<br/>                 Lecture: exam</p>  |                             |             |
| <b>Course description</b>   |                             |             |
| <p>Construction, implementation and modification of an information system; integration of information systems; instruments for software engineering, functional requirements, discipline requirements, system requirements of the user, requirements engineering process, requirement management, construction of software prototypes, software customization, management of information system implementation,<br/>                 personnel management of IT projects - P-CMM model; estimation of software costs.</p>   |                             |             |
| <b>Basic bibliography:</b>  |                             |             |
| <ol style="list-style-type: none"> <li>1. Borucki A. (2012). E-Biznes. Wydawnictwo Politechniki Poznańskiej. Poznań.</li> <li>2. Kolbusz E., Olejniczak W., Szyjewski Z. (2005). Inżynieria systemów informatycznych w e-gospodarce. PWE. Warszawa.</li> <li>3. Sommerville I. (2003). Inżynieria oprogramowania. WNT. Warszawa.</li> <li>4. Kompendium wiedzy o zarządzaniu projektami PMBOKGuide 2000 Edition.(tłumacz.2003).MT&amp;#38;#38;DC</li> <li>5. Flasiński M.(2006). Zarządzanie projektami informatycznymi.PWN</li> <li>6. Phillips J.(2005). Zarządzanie projektami IT.Helion.One press.</li> <li>7. Kubiak B.(red),(2003) .Strategie informatyzacji współczesnej organizacji.Uniwersytet Gdański.Wydział Zarządzania.</li> </ol> |                             |             |
| <b>Additional bibliography:</b>   |                             |             |
| <ol style="list-style-type: none"> <li>1. Szpringer W. (2012). Innowacyjne modele e-biznesu. Difin. Warszawa.</li> <li>2. Connolly T.,Begg C.,(2004) Systemy baz danych t.1.WRM i Instytut Informatyki</li> <li>3. Kan S.H.,(2006) Metryki i modele w inżynierii jakości oprogramowania.PWN</li> </ol>  |                             |             |
| <b>Result of average student's workload</b>   |                             |             |
| <b>Activity</b>   | <b>Time (working hours)</b> |             |
| 1. Lecture  | 15                          |             |
| 2. Project  | 15                          |             |
| 3. Preparation for the project  | 10                          |             |
| 4. Consultations  | 15                          |             |
| 5. Final assessment and exam  | 5                           |             |
| <b>Student's workload</b>   |                             |             |
| <b>Source of workload</b>   | <b>hours</b>                | <b>ECTS</b> |
| Total workload  | 100                         | 4           |
| Contact hours   | 60                          | 2           |
| Practical activities  | 35                          | 1           |