

| STUDY MODULE DESCRIPTION FORM | | |
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| Name of the module/subject Entrepreneurship and Lean Management | | Code 1010101161010107435 |
| Field of study Civil Engineering First-cycle Studies | Profile of study (general academic, practical) (brak) | Year /Semester 3 / 6 |
| Elective path/specialty - | Subject offered in: Polish | Course (compulsory, elective) elective |
| Cycle of study: First-cycle studies | Form of study (full-time, part-time) full-time | |
| No. of hours Lecture: 30 Classes: 15 Laboratory: - Project/seminars: 15 | | No. of credits 5 |
| Status of the course in the study program (Basic, major, other) (brak) | | (university-wide, from another field) (brak) |
| Education areas and fields of science and art | | ECTS distribution (number and %) |
| Responsible for subject / lecturer: mgr inż. Sebastian Dubas email: sebastian.dubas@put.poznan.pl tel. 616652830 Faculty of Civil and Environmental Engineering ul. Piotrowo 5 60-965 Poznań | | Responsible for subject / lecturer: mgr inż. Piotr Nowotarski email: piotr.nowotarski@put.poznan.pl tel. 616652190 Wydział Budownictwa i Inżynierii Środowiska ul. Piotrowo 5 |
| Prerequisites in terms of knowledge, skills and social competencies: | | |
| 1 | Knowledge | Basic knowledge on mathematics and economics. |
| 2 | Skills | solving problems, use of gathered knowledge, systematic work. |
| 3 | Social competencies | work in groups, creativity. |
| Assumptions and objectives of the course: | | |
| - Aim of this subject is familiarising students with basic aspects of entrepreneurship and lean management. In terms of entrepreneurship students learn about forms of conducting business activity, biznesplan and finance in business. | | |
| - On lean management part students learn about: Lean Management; 6 Sigma; Fathers of Lean Management; Why do companies use the tools of Lean Six Sigma; Why quality is important; General rules for implementing the LM. | | |
| Study outcomes and reference to the educational results for a field of study | | |
| Knowledge: | | |
| 1. ma podstawową wiedzę na temat prowadzenia działalności gospodarczej w budownictwie - [K_W16] | | |
| Skills: | | |
| 1. umie przygotować biznesplan i plan finansowy przedsięwzięcia - [-] | | |
| Social competencies: | | |
| 1. potrafi pracować samodzielnie i współpracować w zespole nad wyznaczonym zadaniem. - [K_K01] | | |
| 2. ma świadomość konieczności podnoszenia kompetencji zawodowych i osobistych. - [K_K06] | | |
| Assessment methods of study outcomes | | |
| - Written exam from lectures consisting of 4 to 8 open questions. Exam takes place on last classes of the semester. | | |
| - written final test in moodle system consisting of 4 to 10 open and closed questions. Final test takes place on last classes of the semester. | | |
| - project course is passed on basis of correctly done project, according to regular consultations, and defending project within due date before last classes of the semester. | | |
| Course description | | |

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| <p>- During lectures discussed problems are:</p> <ol style="list-style-type: none"> 1. forms of business activity, commercial companies, law and tax aspects of companies, basic terminology on economics and law. 2. taxes in business activity - VAT, lump sum, tax card. 3. finances of companies, bill of gains and losses, costs of commercial activity, planing finances depreciation, leasing, discounting monetary value over time. 4. Lean Management; 6 Sigma; Fathers of Lean Management; Why do companies use the tools of Lean Six Sigma; Why quality is important; General rules for implementing the LM; Value stream; 8 Muda; Types Muda; Mura; Muri; Sea of inventory; DMAIC cycle; Card Project; Voice of the customer; SIPOC; Brainstorm; 5Whys; Pareto chart; Ishikawa diagram | | |
| <p>Basic bibliography:</p> <ol style="list-style-type: none"> 1. Przedsiębiorczość dla ambitnych ? Jerzy Cieślík 2. Własna firma ? Iwona Bogaczyk i inni 3. Wybrane zagadnienia finansów przedsiębiorstw ? Jolanta Iwin-Garzyńska, Adam Adamczyk 4. The Machine That Changed the World by James P. Womack, Daniel T. Jones, and Daniel Roos, Free Press, ISBN-13: 978-0-7432-9979-4 | | |
| <p>Additional bibliography:</p> | | |
| <p>Result of average student's workload</p> | | |
| <p>Activity</p> | | <p>Time (working hours)</p> |
| 1. Participation in classes Lecture + Excercise + Projects | | 60 |
| 2. Learning to exam | | 25 |
| 3. Learning to final test | | 15 |
| 4. Preparation of business plan | | 50 |
| <p>Student's workload</p> | | |
| <p>Source of workload</p> | <p>hours</p> | <p>ECTS</p> |
| Total workload | 150 | 5 |
| Contact hours | 60 | 3 |
| Practical activities | 50 | 2 |