

| <b>STUDY MODULE DESCRIPTION FORM</b>   |  |  |
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| Name of the module/subject<br><b>(-)</b>   |  | Code<br><b>1010112121010109369</b>   |
| Field of study<br><b>Civil Engineering</b>   | Profile of study<br>(general academic, practical)<br><b>(brak)</b> | Year /Semester<br><b>1 / 2</b>   |
| Elective path/specialty<br><b>-</b>  | Subject offered in:<br><b>Polish</b>                               | Course (compulsory, elective)<br><b>obligatory</b>   |
| Cycle of study:<br><b>Second-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>2</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  |  | ECTS distribution (number and %)   |
| <b>Responsible for subject / lecturer:</b><br>dr hab. inż. Jerzy Paślawski, prof. nadzw.<br>email: jerzy.paslowski@put.poznan.pl<br>tel. +48616652113<br>Wydział Budownictwa i Inżynierii Środowiska<br>ul. Piotrowo 5 60-965 Poznań   |  | <b>Responsible for subject / lecturer:</b><br>mgr inż. Sebastian Dubas<br>email: sebastian.dubas@put.poznan.pl<br>tel. +48616652830<br>Wydział Budownictwa i Inżynierii Środowiska<br>ul. Piotrowo 5 60-965 Poznań |
| <b>Prerequisites in terms of knowledge, skills and social competencies:</b>  |  |  |
| 1  | <b>Knowledge</b>   | General knowledge about building processes   |
| 2  | <b>Skills</b>  | Ability to monitor building processes in the chosen technology   |
| 3  | <b>Social competencies</b>   | Ability to objectively assess the correctness of the construction process along with the possible direction of improvement   |
| <b>Assumptions and objectives of the course:</b><br>Getting to know practical problems in selected construction companies and familiarize students with the currently used methods of managing construction processes in practice. On this basis, finding a method to improve the management of building processes in a chosen field based on innovative solutions |  |  |
| <b>Study outcomes and reference to the educational results for a field of study</b>  |  |  |
| <b>Knowledge:</b>  |  |  |
| 1. Knows all the stages of the design process necessary to create a construction project - [K_W10]   |  |  |
| 2. Knows the rules for the production of building materials and products - [K_W05]   |  |  |
| 3. Knows how to obtain legal information contained in construction law and other regulations - [K_W11]   |  |  |
| <b>Skills:</b>   |  |  |
| 1. Can create a schedule of construction works - [K_U10]   |  |  |
| 2. Can design a production process in construction based on labor-intensive standards - [K_U12]  |  |  |
| 3. Can manage a team of employees - [K_U12]  |  |  |
| <b>Social competencies:</b>  |  |  |
| 1. Independently expands knowledge in the field of modern building processes and technologies - [K_K03]  |  |  |
| 2. Understands the need to provide knowledge about construction - [K_K08]  |  |  |
| 3. Observes economic / financial rules regarding the operation of enterprises - [K_K11]  |  |  |
| <b>Assessment methods of study outcomes</b>  |  |  |
| - presentation of your own proposal for solving the current problem with which the student became familiar during the summer internship in a partner company   |  |  |

| <b>Course description</b>   |                      |      |
|---|----------------------|------|
| Presentation of innovative solutions in the field of construction technology management:<br>- Lean Management<br>- Construction Process Trucking<br>- BIM<br>- Quality Management<br>- Construction Process Planning and Monitoring<br>- Modular construction   |                      |      |
| <b>Basic bibliography:</b><br>1. Kaplinski, O., Paslawski, J., Zavadskas, E.K., Gajzler. M. (red.) (2015). Innovative solutions in Construction Engineering and Management. Flexible Approach, Procedia Engineering, 122, 1-320.<br>2. Kaplinski, O., Paslawski, J., Zavadskas, E.K., Gajzler. M. (red.) (2015). Innovative solutions in Construction Engineering and Management. Flexible Approach, Procedia Engineering, 122, 1-320.    |                      |      |
| <b>Additional bibliography:</b><br>1. Kaplinski, O., Paslawski, J., Zavadskas, E.K., Gajzler. M. (red.) (2017). Innovative solutions in Construction Engineering and Management. Flexible Approach, Procedia Engineering, [in Press]<br>2. Kaplinski, O., Paslawski, J., Zavadskas, E.K., Gajzler. M. (red.) (2017). Innovative solutions in Construction Engineering and Management. Flexible Approach, Procedia Engineering, [in Press] |                      |      |
| <b>Result of average student's workload</b>   |                      |      |
| Activity  | Time (working hours) |      |
| 1. Work with students   | 20                   |      |
| 2. Student  | 30                   |      |
| 3. Students own work  | 30                   |      |
| 4. work in laboratory   | 20                   |      |
| <b>Student's workload</b>   |                      |      |
| Source of workload  | hours                | ECTS |
| Total workload  | 100                  | 2    |
| Contact hours   | 50                   | 1    |
| Practical activities  | 50                   | 1    |