



## Subject card

|   |   |  |  |                                     |   |            |     |
|---|---|--|--|-------------------------------------|---|------------|-----|
| Subject name and code                       | Technology and organization of construction hydrotechnics works , PG_00044019   |  |  |                                     |   |            |     |
| Field of study                              | Civil Engineering   |  |  |                                     |   |            |     |
| Date of commencement of studies             | October 2021  |  | Academic year of realisation of subject  |                                     | 2023/2024   |            |     |
| Education level                             | first-cycle studies   |  | Subject group  |                                     | Optional subject group<br>Humanistic-social subject group<br>Subject group related to scientific research in the field of study |            |     |
| Mode of study                               | Full-time studies   |  | Mode of delivery   |                                     | at the university   |            |     |
| Year of study                               | 3   |  | Language of instruction  |                                     | Polish  |            |     |
| Semester of study                           | 5   |  | ECTS credits   |                                     | 3.0   |            |     |
| Learning profile                            | general academic profile  |  | Assessment form  |                                     | exam  |            |     |
| Conducting unit                             | Department of Building Engineering -> Faculty of Civil and Environmental Engineering  |  |  |                                     |   |            |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor  |  | dr inż. Adam Kristowski  |                                     |   |            |     |
|   | Teachers  |  | dr inż. Anna Jakubczyk-Galczyńska  |                                     |   |            |     |
|   |   |  | mgr inż. Anna Cuglewska-Lech   |                                     |   |            |     |
|   |   |  | dr inż. Adam Kristowski  |                                     |   |            |     |
| Lesson types and methods of instruction     | Lesson type   | Lecture  | Tutorial   | Laboratory                          | Project   | Seminar    | SUM |
|   | Number of study hours   | 15.0   | 15.0   | 0.0                                 | 15.0  | 0.0        | 45  |
|   | E-learning hours included: 0.0  |  |  |                                     |   |            |     |
| Learning activity and number of study hours | Learning activity   | Participation in didactic classes included in study plan |  | Participation in consultation hours |   | Self-study | SUM |
|   | Number of study hours   | 45   |  | 7.0                                 |   | 23.0       | 75  |
| Subject objectives                          | Getting to know the basic knowledge of technology and organization of construction works.   |  |  |                                     |   |            |     |
| Learning outcomes                           | Course outcome  |  | Subject outcome  |                                     | Method of verification  |            |     |
|   | [K6_W14] Has knowledge on basic enterprise, management and marketing in a company; knows labour norms in civil engineering and rules of construction organizing and management          |  | The student is able to explain and present the principles of construction management.              |                                     |   |            |     |
|   | [K6_U11] knows and applies rules of construction law; can estimate risk of construction works and implement proper security routines; obeys the rules of occupational safety and health |  | The student is able to explain and present regulations concerning construction works.              |                                     |   |            |     |
|   | [K6_U16] is able to manage the construction site according to codes of technology and construction management   |  | The student is able to explain and present basic concepts of management during construction works. |                                     |   |            |     |
|   | [K6_K03] can think and act creatively and enterprisingly, obeys the etics code  |  | The student is able to explain and present basic issues of planning construction works             |                                     |   |            |     |

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| Subject contents   | Technology and organization of concrete works. Technological transport. Technology and organization of assembly. Prefabrication. Finishing works technology. Scaffolding. Technology of surface works. Technical specifications of execution and acceptance of works. Basic terms concerning organization and management. Design of the construction process implementation in time: linear schedules, network methods. Design of site development. Safety and health protection regulations in the construction process. |   |                               |
| Prerequisites and co-requisites                                |   |   |                               |
| Assessment methods and criteria                                | Subject passing criteria  | Passing threshold   | Percentage of the final grade |
|  | exam  | 60.0%   | 34.0%                         |
|  | project   | 60.0%   | 33.0%                         |
|  | exercise  | 60.0%   | 33.0%                         |
| Recommended reading  | Basic literature  | 1. Dyżewski A. : Technologia i organizacja budowy Arkady Warszawa<br><br>2. Stefański A. : Technologia zmechanizowanych robót budowlanych. PWN<br><br>3. Stefański A., Walczak J. : Technologia robót budowlanych. Arkady<br><br>4. Jaworski K.M.: Metodologia projektowania realizacji budowy. WN PWN Warszawa<br><br>5. Jaworski K.M.: Podstawy organizacji budowy. WN PWN Warszawa |                               |
|  | Supplementary literature  | 6. Śniadkowski Z. : Maszyny do zagęszczania podłoża. WN-T<br><br>7. Praca zbiorowa : Mechanizacja robot wykończeniowych w budownictwie. Arkady<br><br>8. Fligier K., Rowiński L., Szwabowski J. : Montaż zintegrowanych konstrukcji budowlanych. PWN<br><br>9. Stoner J.A.F., Freeman R.E., Gilbert D.R.: Kierowanie. PWE Warszawa. 10. Ustawa Prawo budowlane.                       |                               |
|  | eResources addresses  | Adresy na platformie eNauczanie:<br>Technologia i organizacja robót budowlanych 2023 - Moodle ID: 30575<br><a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=30575">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=30575</a>  |                               |
| Example issues/<br>example questions/<br>tasks being completed |   |   |                               |
| Work placement   | Not applicable  |   |                               |