

Subject card

| Subject name and code | Building Pipe and Wire Systems, PG_00044010 | | | | | | | | |
|---|---|---|---|-------------------------------------|--------|--|---------|-----|--|
| Field of study | Civil Engineering | | | | | | | | |
| Date of commencement of studies | October 2021 | | Academic year of realisation of subject | | | 2022/2023 | | | |
| Education level | first-cycle studies | | Subject group | | | Obligatory subject group in the field of study | | | |
| Mode of study | Full-time studies | | Mode of delivery | | | at the university | | | |
| Year of study | 2 | | Language of instruction | | | Polish | | | |
| Semester of study | 4 | | ECTS credits | | | 3.0 | | | |
| Learning profile | general academic profile | | Assessment form | | | assessment | | | |
| Conducting unit | Department of Sanitary Engineering -> Faculty of Civil and Environmental Engineering | | | | | | | | |
| Name and surname | Subject supervisor dr inż. Przemysław Kowal | | | | | | | | |
| of lecturer (lecturers) | Teachers | | dr inż. Przemysław Kowal | | | | | | |
| | | | dr inż. Joanna Majtacz | | | | | | |
| | | | dr inż. Izabela | | | | | | |
| | | | mgr inż. Magdalena Kaszubowska | | | | | | |
| | | | dr inż. Maria Orłowska-Szostak | | | | | | |
| | | | | | | | | | |
| | | | dr hab. inż. Jacek Skibicki | | | | | | |
| Lesson types and methods | Lesson type | Lecture | Tutorial | Laboratory | Projec | t | Seminar | SUM | |
| of instruction | Number of study hours | 30.0 | 30.0 | 0.0 | 0.0 | | 0.0 | 60 | |
| | E-learning hours included: 0.0 | | | | | | | | |
| Learning activity and number of study hours | Learning activity | Participation in classes include plan | | Participation in consultation hours | | Self-study | | SUM | |
| | Number of study hours | 60 | 5.0 | | 10.0 | | 75 | | |
| Subject objectives | The purpose of the subject is familiarization students with some individual kind of sanitary networks and installation, construction of these systems, employment, project principles, advantages and disadvantages of individual solutions and technologies and taking advantage of this knowledge in professional practice of civil engineer. | | | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | | Method of verification | | | |
| | [K6_W11] Knows sel software supporting t calculation and desig construction as well a construction manage | Student owns some basic knowledge from a range of utilization of computer technique in project design of sanitary installation in civil engineering. | | | | | | | |
| | [K6_W01] has knowl selected branches of mathematics, physic: chemistry, which is a construction subjects construction theory a technology and id ne formulate and solve problems of civil eng | During structural design of a building student of building engineering analyzes and describes the most proper solutions and technologies in the area of necessary installations. In this way he undertakes based on partnership dialogue with some specialists who are designing these installations. | | | | | | | |
| Subject contents | LECTURES Outdoor networks of municipal infrastructure. Indoor installations: types, adequate designs. Basic types of installations inside buildings conveying water for human consumption (manners of supplying water, installation materials). Fire protection systems. Heating systems (types, applied installation materials and technical solutions, firstly taking into account central heating systems and room of heat distribution centre). AUDITORIAL CLASSES Details of cold water and hot water supply installations. Sewage system installation, sanitary fittings, materials, design rules. Systems of rain-water installation; traditional, vacuum installations, materials used, design rules. Gas installation; types, details, design rules. | | | | | | | | |

Data wydruku: 09.04.2024 09:57 Strona 1 z 2

| Prerequisites and co-requisites | Passed the basic program in the area of building engineering. | | | | | |
|--|---|---|--------------------------------------|--|--|--|
| Assessment methods | Subject passing criteria | Passing threshold | Percentage of the final grade | | | |
| and criteria | Participation in lectures (webinarium) | 50.0% | 20.0% | | | |
| | Final colloquium and project | 65.0% | 80.0% | | | |
| Recommended reading | Basic literature | Chudzicki J.: Instalacje wodociągowe i olski, Warszawa, 2000. gowe, kanalizacyjne i gazowe. Praca ego, Arkady, Warszawa,1976. | | | | |
| | Supplementary literature | 1. Catalogues edited by the producers: "Geberit", "PipeLife", "Wavin", "LPM Danfoss", "COMAP", "PURMO", "KanTherm", "PoWoGaz S.A.", "Metron", "AQUATHERM", "Cuprum", "COPRAX", "ROCKWOOL", "Thermaflex" i in.; 2. Legal regulations, and specially: Warunki Techniczne Wykonania i Odbioru Robót Budowlano – Montażowych, Tom II: Instalacje Sanitarne i Przemysłowe, ARKADY, Warszawa 1988 oraz Wymagania Techniczne COBRTI "INSTAL" – zeszyt 1-10, Warszawa, 1999 do 2005. | | | | |
| | eResources addresses Adresy na platformie eNauczanie: Instalacje budowlane - Budown, stacjon semIV 2 24995 https://enauczanie.pg.edu.pl/moodle/course/view | | , stacjon semIV 2022/23 - Moodle ID: | | | |
| Example issues/ example questions/ tasks being completed | Materials applicable in water-supply installations. Fire-protection installations in buildings. Gas Installations – material, gas meters. Installations of warm waters – classification, regulation. | | | | | |
| | Heating installations – classification, regulation. | | | | | |
| Work placement | Not applicable | | | | | |

Data wydruku: 09.04.2024 09:57 Strona 2 z 2