



Subject card

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|---|---|--|---|-------------------------------------|---|------------|-----|
| Subject name and code | Building and Installation Materials, PG_00048438 | | | | | | |
| Field of study | Chemistry in Construction Engineering | | | | | | |
| Date of commencement of studies | October 2020 | | Academic year of realisation of subject | | 2021/2022 | | |
| Education level | first-cycle studies | | Subject group | | Obligatory subject group in the field of study 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 | 2 | | Language of instruction | | Polish | | |
| Semester of study | 3 | | ECTS credits | | 4.0 | | |
| Learning profile | general academic profile | | Assessment form | | assessment | | |
| Conducting unit | Department of Building Structures and Material Engineering -> Faculty of Civil and Environmental Engineering | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr hab. inż. Michał Wójcik | | | | |
| | Teachers | | mgr inż. Sławomir Dobrowolski dr inż. Elżbieta Haustein dr hab. inż. Jakub Drewnowski | | | | |
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| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 15.0 | 0.0 | 30.0 | 0.0 | 0.0 | 45 |
| | E-learning hours included: 0.0 | | | | | | |
| | Adresy na platformie eNauczanie: | | | | | | |
| 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 | | 5.0 | | 50.0 | 100 |
| Subject objectives | After the Building Materials course the student will be able to: memorize and define the physical and mechanical properties of the building and installation materials and classify them to one of the basic group; explain the processes, which take place in the building materials; interpret and apply the standards concerning the quality and properties of building materials, apply various building materials. | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | Method of verification | | |
| | K6_W05 | | The student has knowledge of building and installation materials, knows the basic principles of testing the functional properties of materials and has basic knowledge of the use of building materials | | [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment | | |
| | K6_U02 | | The student knows how to work in a group, can analyze the obtained research results. | | [SK1] Assessment of group work skills [SK3] Assessment of ability to organize work | | |
| Subject contents | Technical properties of building materials. Natural stone materials. Ceramic building products. Concrete, lightweight aggregates, cavernous concrete, cellular concrete, foamed concrete. Products based on lime, Portland cement , and gypsum binders. Glass properties and products used in construction industry. Wood and wooden building products. Materials for thermal and sound insulation. Bituminous and plastic materials for damp proofing. Plastic properties, classification, products, usage in construction industry. Painting materials and various finishing. Installation materials. | | | | | | |
| Prerequisites and co-requisites | Basic knowledge of physics and chemistry. | | | | | | |
| Assessment methods and criteria | Subject passing criteria | | Passing threshold | | Percentage of the final grade | | |
| | Written test. | | 50.0% | | 50.0% | | |
| | Oral test | | 50.0% | | 50.0% | | |

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| Recommended reading | Basic literature | Lack of materials. |
| | Supplementary literature | <p>Stefańczyk B., <i>Budownictwo ogólne</i>, tom 1, Warszawa: Arkady 2005.</p> <p>Szymański E., <i>Materiałoznawstwo budowlane z technologią betonu</i>, cz. 1. i 2., Warszawa: Oficyna Wydawnicza Politechniki Warszawskiej, 2005.</p> <p>Żenczykowski W., <i>Budownictwo ogólne</i>, t. 1., Warszawa: Arkady, 1992.</p> |
| | eResources addresses | |
| Example issues/ example questions/ tasks being completed | Name the construction product, describe production technology and other materials used in its manufacture, specify its basic physical and mechanical properties and give its application in construction. | |
| Work placement | Not applicable | |