



Subject card

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| Subject name and code | , PG_00061728 | | | | | | |
| Field of study | Environmental Engineering | | | | | | |
| Date of commencement of studies | October 2023 | | Academic year of realisation of subject | | 2024/2025 | | |
| Education level | second-cycle studies | | Subject group | | Obligatory subject group in the field of study | | |
| Mode of study | Part-time studies | | Mode of delivery | | at the university | | |
| Year of study | 2 | | Language of instruction | | Polish | | |
| Semester of study | 3 | | ECTS credits | | 3.0 | | |
| Learning profile | general academic profile | | Assessment form | | assessment | | |
| Conducting unit | Department of Transportation Engineering -> Faculty of Civil and Environmental Engineering | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr inż. Bohdan Dołżycki | | | | |
| | Teachers | | dr inż. Łukasz Mejłun | | | | |
| | | | dr inż. Bohdan Dołżycki | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 10.0 | 10.0 | 0.0 | 0.0 | 0.0 | 20 |
| | 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 | 20 | | 3.0 | | 52.0 | 75 |
| Subject objectives | Become familiar with the process and basic procedures and regulations for road design and pavement construction. | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | Method of verification | | |
| | [K7_U01] can obtain information from literature, databases and other sources; can integrate the obtained information, interpret and critically evaluate them, draw conclusions, and formulate and comprehesively justify the opinions | | The student is able to obtain information from literature, databases and other sources; is able to integrate the obtained information, interpret and critically evaluate it, as well as draw conclusions and formulate and exhaustively justify opinions. | | [SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools | | |
| | K7_W05 | | The student is able to select appropriate road construction technologies and organize their operation. | | [SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation | | |
| | [K7_W02] has broadened and well-ordered knowledge of the current law on construction, water, environmental protection and planning and spatial planning. | | The student will become familiar with the formal and legal system, applicable regulations and investment principles. | | [SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge | | |
| Subject contents | General conditions for the development of the road network. Principles of dimensioning of road elements - road cross-section, situational plan, longitudinal profile. Principles of designing road intersections and junctions. Principles of designing devices for pedestrians, bicycles and public transport. Road construction - basic principles of earthworks execution. Layout and functions of pavement layers. Road materials (asphalts, aggregates, asphalt mixtures). Design of pavement structures. | | | | | | |
| Prerequisites and co-requisites | | | | | | | |
| Assessment methods and criteria | Subject passing criteria | | Passing threshold | | Percentage of the final grade | | |
| | Passing of exercises | | 60.0% | | 100.0% | | |

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| Recommended reading | Basic literature | <p>1. Basiewicz T., Gołaszewski A., Rudziński L.; Infrastruktura transportu. Politechnika Warszawska, 2007</p> <p>2. Wojewódzka-Król K., Rolbiecki R.; Infrastruktura transportu. Wyd. Uniwersytetu Gdańskiego, 2008</p> <p>3. Węzły drogowe i autostradowe. Praca pod red. Prof. R. Krystka. WKiŁ Warszawa, 20008</p> <p>4. Piłat J., Radziszewski P.: Nawierzchnie asfaltowe, WKŁ, 2004.</p> |
| | Supplementary literature | <p>1. Katalog typowych konstrukcji nawierzchni podatnych i półsztywnych. GDDKiA Warszawa, 2014.</p> <p>2. Wytyczne projektowania skrzyżowań drogowych, GDDKiA, 2001</p> <p>3. Rozporządzenie Ministra Transportu i Gospodarki Morskiej z dnia 2 marca 1999 r. w sprawie warunków technicznych jakim powinny odpowiadać drogi publiczne i ich usytuowanie</p> |
| | eResources addresses | Adresy na platformie eNauczanie: |
| Example issues/ example questions/ tasks being completed | no recommendatio | |
| Work placement | Not applicable | |

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