



Subject card

| | | | | | | | |
|---|--|--|--|-------------------------------------|--|------------|-----|
| Subject name and code | Road construction and maintenance, PG_00044343 | | | | | | |
| Field of study | Civil Engineering | | | | | | |
| Date of commencement of studies | October 2024 | Academic year of realisation of subject | | | 2025/2026 | | |
| Education level | second-cycle studies | Subject group | | | Optional subject group | | |
| 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 | | | 2.0 | | |
| 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 | | | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 10.0 | 0.0 | 0.0 | 10.0 | 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 | | 5.0 | | 25.0 | 50 |
| Subject objectives | The course presents principles of road construction and maintenance, in terms of technical and legal requirements. | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | Method of verification | | |
| | [K7_U08] Is able to evaluate technical condition of a road, to design its pavement and choose proper construction technology using mechanistic methods and material investigations | | At the conclusion of the course, student should be familiar with the methods of road condition assessment and proper maintenance techniques. | | [SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information | | |
| | [K7_W07] has expanded knowledge of theory of road and airport pavements, pavement maintenance, advanced methods of material testing and construction technologies | | At the conclusion of the course, student should be familiar with the principles of road construction and maintenance, including modern construction and diagnostic technologies. | | [SW1] Assessment of factual knowledge | | |
| Subject contents | Lecture contents: Formal regulations regarding to road construction process, order of construction process, road construction technologies, road diagnostic and maintenance. Project contents: Designing of the section of the road including drainage, sighting distance and structural overlay. | | | | | | |
| Prerequisites and co-requisites | Prerequisites (basic): 1. Course - Bridge Construction (BND012) 2. Course - Railway Construction II (BND013) 3. Course - Road and Motorway Construction II (BND042) | | | | | | |

| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
|--|-----------------------------------|---|-------------------------------|
| | Colloquium at the end of the term | 60.0% | 50.0% |
| | Practical design exercise | 100.0% | 50.0% |
| Recommended reading | Basic literature | <ol style="list-style-type: none"> 1. Węzły drogowe i autostradowe. Praca pod red. Prof. R. Krystka. WKiŁ Warszawa, 2008. 2. Gaca S., Suchorzewski W., Tracz M.: Inżynieria Ruchu drogowego. Teoria i praktyka. WKŁ Warszawa 2009 3. Głazewski M., Nowocień., Piechowicz K, Roboty ziemne i rekultywacyjne w budownictwie komunikacyjnym, WKŁ, Warszawa 2011 4. Piłat J., Radziszewski P.: Nawierzchnie asfaltowe, WKŁ, 2004. | |
| | Supplementary literature | <ol style="list-style-type: none"> 1. Warunki techniczne jakim powinny odpowiadać drogi publiczne i ich usytuowanie. Dziennik Ustaw, Warszawa 1999 2. Katalog typowych konstrukcji nawierzchni podatnych i półsztywnych. GDDP, Warszawa, 1997 3. Edel R. Odwodnienie dróg, WKŁ, Warszawa 2009 4. Wiłun Z., Zarys geotechniki, WKŁ, Warszawa 2013 | |
| | eResources addresses | Adresy na platformie eNauczanie: | |
| Example issues/ example questions/ tasks being completed | | | |
| Work placement | Not applicable | | |

Document generated electronically. Does not require a seal or signature.