

Subject card

| Subject name and code | , PG_00060094 | | | | | | | | |
|---|---|---|---|-------------------------------------|--|---|------------------------|-----------|--|
| Field of study | Civil Engineering | | | | | | | | |
| Date of commencement of studies | February 2024 | | Academic year of realisation of subject | | | 2024/2025 | | | |
| Education level | second-cycle studies | | Subject group | | | | | | |
| 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 | | | 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 | Subject supervisor dr inż. Jacek Alenowicz | | | | | | | | |
| of lecturer (lecturers) | Teachers | | | | | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | t | Seminar | SUM | |
| | Number of study hours | 0.0 | 0.0 | 0.0 | 0.0 | | 30.0 | 30 | |
| | E-learning hours included: 0.0 | | | | | | | | |
| | | https://enauczanie.pg.edu.pl/moodle/ | | | i i i i i i i i i i i i i i i i i i i | | | | |
| 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 | 30 | | 0.0 | .0 | | | 30 | |
| | Getting acquainted w with special focus on works. Own evaluation engineering. | advanced labo | ratory testing a | and assessmer | nt of the | quality | of road mate | rials and | |
| Learning outcomes | Course out | Course outcome | | Subject outcome | | | Method of verification | | |
| | [K7_K01] is aware of necessity of professional competences improvement; obeys the professional ethics code | | The student is aware of the need to improve professional and personal competences; including professional ethics because of development in material engineering and technologies as well as traffic engineering | | [SK5] Assessment of ability to solve problems that arise in practice [SK4] Assessment of communication skills, including language correctness | | | | |
| | [K7_U06] is able to choose proper tools (measuring, analytical or numerical) to solve engineering problems, to acquire, filtrate, proces and analyse data | | The student is able to plan and conduct experiments related to the assessment of the properties of road materials, road technologies and road traffic engineering and to perform analysis of the results. | | | [SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task | | | |
| | [K7_W15] has deep and adequate knowlege of civil engineering, within offered specialization and profile | | The student has knowledge related to the assessment of the properties of road materials, road technologies and road traffic engineering. | | [SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation | | | | |
| Subject contents | Presentation research publications concerning the topics connected to contemporary road materials and technologies. Discussion concerning the presentations and presented research topics. Analysis of real cases (problems) from the field of road traffic engineering, discussion and proposal of improvement of current state. | | | | | | | | |

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| Prerequisites and co-requisites | Knowledge from the subjects "Teoria nawierzchni i materiałoznawstwo drogowe" oraz "Organizacja i sterowanie ruchem drogowym" in sem II. | | | | | | |
|--|---|---|-------------------------------|--|--|--|--|
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade | | | | |
| | Activity during seminars | 50.0% | 25.0% | | | | |
| | Form of presentation and discussion | 60.0% | 25.0% | | | | |
| | Completness of presentation, knowledge | 60.0% | 50.0% | | | | |
| Recommended reading | Basic literature | Nowości techniki zagranicznej, Zeszyty IBDiM, Materiały z konferencji międzynarodowych: RILEM, AAPT Amerykańskie raporty badawcze, Road Materials and pavement Design, International Journal of Pavement Engineering, internet, S. Datka, W. Suchorzewski, M. Tracz, Inżynieria ruchu, W. S. Młodożeniec Budowa dróg - podstawy projektowania, Wytyczne WR-D. | | | | | |
| | Supplementary literature | internet | | | | | |
| | eResources addresses | Adresy na platformie eNauczanie: | | | | | |
| Example issues/ example questions/ tasks being completed | Testing and evaluation of the cracking resistance of asphalt mixtures. Evaluation of the design strength of geosynthetics in engineering structures. | | | | | | |
| | Evaluation of recycled asphalt pavement (RAP) quality. | | | | | | |
| | Contemporary bridge pavements. | | | | | | |
| | Transportation problems in mass events. | | | | | | |
| | Road class as an indicator of its accessibility. | | | | | | |
| | Selection of intersection type in built-up areas. | | | | | | |
| | Combining of pedestrian/bicycle/car traffic in common area. | | | | | | |
| Work placement | Not applicable | | | | | | |

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