

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

| Subject name and code | Seminar on Railways | , PG 0004139 | 5 | | | | | |
|--|--|--|---|-------------------------------------|--------|------------------------|---------|-----|
| 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 | | | Optional subject group | | |
| Mode of study | Full-time studies | | Mode of delivery | | | at the university | | |
| Year of study | 1 | | Language of instruction | | | Polish | | |
| Semester of study | 2 | | ECTS credits | | 3.0 | | | |
| Learning profile | general academic profile | | Assessme | ent form | | assessment | | |
| Conducting unit | Department of Railway Engineering -> Faculty of Civil and Environmental Engineering | | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor Teachers | | | | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Projec | t | Seminar | SUM |
| | Number of study hours | 0.0 | 0.0 | 0.0 | 0.0 | | 30.0 | 30 |
| | 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 | 30 | | 5.0 | | 40.0 | | 75 |
| Subject objectives | The aim of subject is increasing by the students their knowledge on the problems with the railways through unassisted elaboration (on the basis of available literature) selected detail problems, presentation of paper, and surrender it of public discussion. | | | | | | | |

| Learning outcomes | Course outcome | Subject outcome | Method of verification | | | |
|---------------------------------|---|---|---|--|--|--|
| | [K7_K05] can manage a team in a responsible way, regarding the rules of occupational safety and health | The student is able to lead a team on specific tasks, in a responsible manner, respecting the principles of work safety | [SK4] Assessment of communication skills, including language correctness [SK5] Assessment of ability to solve problems that arise in practice [SK3] Assessment of ability to organize work [SK1] Assessment of group work skills | | | |
| | [K7_W15] has deep and adequate knowlege of civil engineering, within offered specialization and profile | The student has a structured and advanced knowledge with the field of civil engineering, speciality transportation engineering, diploma profile railways | [SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation | | | |
| | [K7_W08] has deep knowledge of railway track construction, including high speed railroads; design and renovation of railroads of complex geometry; has detailed knowledge about diagnistics of railroads, knows basics of railway traffic organisation and control | The student has a structured and theoretically encouraged knowledge with the railways' construction and design of complex track geometric systems | [SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation | | | |
| | [K7_U09] is able to design railway tracks of complex geometry on sections and stations, both newly designed and renovated; can make a plan and perform diagnostic of railway track and to interpret its results, propose conclusions; can evaluate durability and reliability of railroad elements | The student can design the complex track geometric systems of railway lines and stations, newly built as well as modernized; knows calculation algorithms and is able to evaluate in critical way applied methods of design and construct of railway lines | [SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools | | | |
| | [K7_U15] has advanced skills in civil engineering within offered specialization/profile | The student has an advanced abilities with field of civil engineering, speciality transportation engineering, diploma profile railways | [SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject | | | |
| Subject contents | The subject matter involves a widely understood problems with the design, construct and exploitation of railways. A choose of detail problems belongs to the student; he lays down the papers and presentations. | | | | | |
| Prerequisites and co-requisites | | | | | | |
| Assessment methods | Subject passing criteria | Passing threshold | Percentage of the final grade | | | |
| and criteria | appraisal of papers | 50.0% | 60.0% | | | |
| | appraisal of presentations | 50.0% | 40.0% | | | |
| Recommended reading | Basic literature | 1. Bałuch H.: Układy geometryczne połączeń torów. WKŁ. Warszawa 1989. | | | | |
| | | 2. Koc W.: Elementy teorii projektowania układów torowych. Wyd. Pol. Gdańskiej 2004. | | | | |
| | | Grulkowski S., Kędra Z., Koc W., Nowakowski M.: Drogi szynowe. Wyd. Pol. Gdańskiej, Gdańsk 2013 (skrypt w formacie pdf, link do wersji pełnotekstowej: pbc.gda.pl/dlibra/docmetadata?id=30780). Mieloszyk E., Grulkowski S., Milewska A.: Hazardous material- related propagation of the effects of train accidents in the subgrade. Transportation Overview - Przegląd Komunikacyjny 10/2018. | | | | |
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| | | Listings acquired single-handedly by a student, including printed on dotcom pages. | | | | |
| | Supplementary literature | Not required | | | | |
| | eResources addresses | Adresy na platformie eNauczanie: | | | | |
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| | Thematic area of performed papers is very wide; a key role plays here student's invention and desire to present an interesting problem for the listeners. |
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| Work placement | Not applicable |

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