



Subject card

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| Subject name and code | Traffic Engineering, PG_00045217 | | | | | | |
| Field of study | Transport and Logistics, Transport and Logistics | | | | | | |
| Date of commencement of studies | October 2020 | | Academic year of realisation of subject | | 2021/2022 | | |
| Education level | first-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 | 4 | | ECTS credits | | 2.0 | | |
| Learning profile | general academic profile | | Assessment form | | assessment | | |
| Conducting unit | Faculty of Ocean Engineering and Ship Technology | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr inż. Daniel Piątek | | | | |
| | Teachers | | dr inż. Daniel Piątek | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 30.0 | 0.0 | 0.0 | 0.0 | 0.0 | 30 |
| | E-learning hours included: 0.0 | | | | | | |
| | Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=9693 Adresy na platformie eNauczanie: Inżynieria ruchu, W, TRANS, rok 2, sem 4, lato 2021-22, (PG_00045217) - Moodle ID: 17750 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=17750 | | | | | | |
| 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 | | 4.0 | | 21.0 | 55 |
| Subject objectives | - familiarization with methods to improve the efficiency and safety in the transport of water and land, - understanding of the basic principles of traffic control aquatic and terrestrial; | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | Method of verification | | |
| | [K6_W07] has a general knowledge on humanities, social and economical sciences. Knows the rules of creating the forms of personal entrepreneurship and economic activity, has knowledge on the protection of intellectual property rights and industrial property rights and copyrights | | It is not a humanistic subject. The student is able to assess the structure of the transport system in terms of efficiency, ecology and safety | | [SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation | | |
| | [K6_U07] applies knowledge on humanities, social and economical science in solving problems | | It is not a humanistic subject. The student knows the structure and principles of operation of water and land transport systems | | [SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject | | |

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| Subject contents | <ul style="list-style-type: none">- the role of traffic engineering in various fields of transportation,- the nature of the marine environment,- rules for the organization of maritime traffic,- safety of navigation in restricted areas,- elements of the safety of the ship: the drive maneuverability, carrying cargo, navigation equipment,- inland waterways: European transport routes, class, facts, investments,- infrastructure of inland waterways, transport- pilotage waterways,- railways: European transport routes, class, investment trends,- railway infrastructure, means of transport;- principles of rail traffic, traffic control systems,- roads: European transport routes, class, investment trends,- motorways, road junctions, horizontal and vertical signage, traffic control systems,- security threats on Polish roads- ports and logistics centers: construction planning, organization; | | |
| Prerequisites and co-requisites | Basic knowledge on the structure of means of transport | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | colloquium | 60.0% | 100.0% |
| Recommended reading | Basic literature | <p>GUCMA, S.: Inżynieria ruchu morskiego. Okrętownictwo i Żegluga. Gdańsk 2001.</p> <p>JAGNISZCZAK, I., ŁUSZNIKOW, E.: Bezpieczeństwo nawigacji. Fundacja Promocji Przemysłu Okrętowego i Gospodarki Morskiej. Gdańsk 2010.</p> <p>KOLASZEWSKI, A., ŚWIDWIŃSKI P.: Żeglarz i sternik jachtowy. Almapress, Wa-wa 2002.</p> <p>DĄBROWSKA-BAJON, M.: Podstawy sterowania ruchem kolejowym, Politechnika Warszawska, Warszawa 2002.</p> <p>CIEŚLAKOWSKI, S.: Stacje kolejowe. Wydawnictwa Komunikacji i Łączności, Wa-wa 1992.</p> <p>GACA, S., SUCHORZEWSKI, W., TRACZ, M.: Inżynieria ruchu drogowego. Teoria i praktyka. WKŁ, 2011</p> <p>KRYSTEK, R.: Węzły drogowe i autostradowe. WKŁ 2008,</p> | |
| | Supplementary literature | - | |
| | eResources addresses | Inżynieria ruchu, W, TRANS, rok 2, sem 4, lato 2021-22, (PG_00045217) - Moodle ID: 17750 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=17750 | |
| Example issues/ example questions/ tasks being completed | | | |
| Work placement | Not applicable | | |