



Subject card

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| Subject name and code | , PG_00065282 | | | | | | |
| Field of study | Transport | | | | | | |
| 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 | 1 | | Language of instruction | | Polish | | |
| Semester of study | 2 | | 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 hab. inż. Marek Pszczoła | | | | |
| | Teachers | | dr hab. inż. Marek Pszczoła dr inż. Łukasz Mejlun | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 15.0 | 15.0 | 0.0 | 0.0 | 0.0 | 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 | | 0.0 | | 0.0 | 30 |
| Subject objectives | The aim of the course is to provide a detailed discussion of the elements of airport infrastructure related to the functioning of both the part of the airport related to aircraft operations (runways, taxiways, aprons, hangars, de-icing pads), and the part related to passenger traffic (terminals, piers, passenger bridges, parking lots, kiss@fly zones) etc. | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | Method of verification | | |
| | [K7_U05] cooperates with other people in the implementation of team work, both as a leader and a team member, effectively achieving set goals | | The student cooperates with other people in the group in implementing teamwork, both as a leader and a team member, effectively achieving established goals related to airport infrastructure. | | [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment [SU5] Assessment of ability to present the results of task | | |
| | [K7_K02] makes competent and ethical decisions, caring for the public interest and maintaining economic, social and environmental values | | The student makes competent and ethical decisions related to the acquired knowledge regarding elements of airport infrastructure. | | [SK3] Assessment of ability to organize work [SK1] Assessment of group work skills | | |
| | [K7_K01] recognizes the importance of knowledge related to the field of study in solving cognitive and practical problems | | The student recognizes the importance of field-related knowledge in solving cognitive and practical problems in relation to the analysis of airport infrastructure elements. | | [SK1] Assessment of group work skills [SK5] Assessment of ability to solve problems that arise in practice | | |
| | [K7_W01] identifies in an in-depth way phenomena related to the field of study as well as theories describing them and possible methods of analyzing processes occurring in the life cycle of technical systems | | The student identifies in-depth phenomena related to airport infrastructure as an essential element related to the functioning of air transport. | | [SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge | | |
| | [K7_U02] presents logical and solid arguments regarding the obtained results, through analysis, synthesis of information in various technical contexts, critically approaching their interpretation | | The student is able to synthesize information from individual elements of the airport infrastructure. He presents logical and solid arguments regarding the results obtained. | | [SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject [SU5] Assessment of ability to present the results of task | | |

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| Subject contents | The content of the subject in the scope of the lecture includes:Introduction to the subject of Airport Infrastructure, historical development of airports along with the development of air transport means, detailed discussion of individual elements of the airport related to its direct functioning, division of airports depending on the purpose they are to serve (passenger only, cargo only, passenger and cargo), analysis of the design, construction and maintenance of DS, aprons, taxiways, terminals. Organization of airport work, infrastructure development, flexibility, planning.The content of the subject in the scope of exercises:Detailed analysis of the elements of the infrastructure of the selected airport. | | |
| Prerequisites and co-requisites | | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | Practice | 60.0% | 40.0% |
| | Lecture | 55.0% | 60.0% |
| Recommended reading | Basic literature | Annex 14 to the Convention on International Civil Aviation, Aerodrome Design and Operations, ICAO, 2004,Horonjeff R., McKelvey F.X., Sproule W.J., Young S.B., Planning andDesign of Airports, McGraw-Hill Companies, Inc. Fifth Edition, 2010 | |
| | Supplementary literature | Kazda A., Caves E. R., Airport Design and Operation, Wydawnictwo Pegamon, 2000, | |
| | eResources addresses | Podstawowe https://www.cpk.pl/pl/dla-mieszkancow/program-lotniskowy/infrastruktura-lotniskowa - Infrastructure related to the construction of the Central Communication Port (CPK). Adresy na platformie eNauczanie: | |
| Example issues/ example questions/ tasks being completed | | | |
| Work placement | Not applicable | | |

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