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| **AKADEMIA WSB** |
| **Field/Course of study: Transport** |
| **Subject: Means of transport** |
| **Profile of education: practice** |
| **Education level: Second level studies** |
| **Number of hours per semester** | 1 | 2 |
| I | II | III | **IV** |
| **Full-time studies**(l/ex/lab/pr/e)\* |  |  |  | **30ex** |
| **Part-time studies** (l/ex/lab/pr/e) |  |  |  |  |
| **Language of subject** | English |
| **Lecturer** | PhD Eng. Paweł Sobczak |
| **Form of subject** | Exercises, consultations |
| **Aim of subject** | Provision of information on the types and purpose of individual means of transport |
| **Reference to learning outcomes** | **Description of learning outcomes** | **The way of verifying the effect of learning outcomes** |
| **Learning outcomes** | **PRK** |
| **KNOWLEDGE** |
| T2\_W02 | P7S\_WG | Knows the types of transport to an in-depth degree; | Exercises during classes; |
| T2\_W02 | P7S\_WG | Lists and distinguishes between means of transport; | Exercises during classes; |
| **SKILLS** |
| T 2\_U01 | P7S\_UW | Describes the means of transport; | Exercises during classes; |
| T 2\_U01 | P7S\_UW | Selects means of transport depending on transport needs; | Exercises during classes; |
| **SOCIAL COMPETENCES** |
| T2 \_K01 | P7S\_KK | remains open to new issues and knowledge | Exercises during classes |
| **Student workload (in teaching hours 1 hour = 45 minutes)\*\***  |
| **Full-time studied**Participation in lectures = Participation in excercises =30hExcercises preparation =8hLectures preparation = Exam preparation =8hRealization of project tasks =e-learning =Exam =Other (which) = consultations 4h**TOTAL:75h****Number of ECTS points:3****Including practical courses:3** | **Full-time studied**Participation in lectures = Participation in excercises = Excercises preparation = Lectures preparation = Exam preparation = Realization of project tasks =e-learning =Exam =Other (which) = **TOTAL:** **Number of ECTS points:** **Including practical courses:**  |
| **PREREQUISITES** | None |
| **CONTENT OF SUBJECT**(divided on direct and e-learning) | Content implemented in a direct format: Exercise:1. Types of transport modes
2. Types of means of transport and their functionality
3. Selection of the means of transport depending on the task to be done

Content implemented in a indirect format: not applicable  |
| **REQUIRED LITERATURE** | Universitat Duisburg Essen PDF e-Book Means of Transport and Equipment: https://www.uni-due.de/~kte010/modularte/html/main\_modules/thoughtData/57/Means%20of%20Transport%20and%20Equipment.pdf RAIL TRANSPORTATION, [Express Publishing (obra colectiva)](https://www.libristo.pl/autorzy/Express%20Publishing%20%28obra%20colectiva%29.html) wyd. Express 2019; |
| **ADDITIONAL LITERATURE**(min. 2 pieces in English, books or articles) | [Wojewódzka-Król](https://ksiegarnia.pwn.pl/autor/Krystyna-Wojewodzka-Krol%2Ca%2C74650835) K., [Rolbiecki R](https://ksiegarnia.pwn.pl/autor/Rolbiecki-Ryszard%2Ca%2C736385065%22%20%5Co%20%22Rolbiecki%20Ryszard)., Infrastruktura transportu. Europa, Polska – teoria i praktyka,  PWN 2018; [Wojewódzka-Król](https://ksiegarnia.pwn.pl/autor/Krystyna-Wojewodzka-Krol%2Ca%2C74650835) K., [Załoga](https://ksiegarnia.pwn.pl/autor/Elzbieta-Zaloga%2Ca%2C318472199) E., Innowacje w transporcie. Zrównoważony rozwój. Integracja gałęzi transport. Sztuczna inteligencja, PWN 2021;Rydzkowski W., Wojewódzka-Król K.: Transport. PWN, Warszawa 2011;Markusik S.: Infrastruktura logistyczna w transporcie. Tom 1. Środki transportu. Wydawnictwo Politechniki Śląskiej, Gliwice 2009; |
| **TEACHING METHODS**(split of direction and indirection form) | Direct form:A presentation includes a slideshow of knowledge content, exercises with case-studiesE-learning: not applicable |
| **TEACHING AIDS** | Movies, Presentation with slideshow, case studies |
| **PROJECT**(if it is realized) | Not applicable |
| **FORM AND PASSING CONDITION**(divided into direct and e-learning) | Performing exercises during classes |

*\* L-lecture, ex-exercises, lab- lab, pro- project, e- e-learning*