

Code.....

Course item:

1. INFORMATION ABOUT THE COURSE**A. Basic information**

Name of course	<i>Transport systems</i>
Study level	<i>first degree</i>
Unit running the study programme	<i>Faculty of Management</i>
Study programme	<i>Management</i>
Speciality	
Name of teacher (s) and his academic degree	<i>Marek Sikora, PhD</i>
Introductory courses	<i>Management</i>
Prerequisites	<i>no prerequisites</i>

B. Semester/week schedule of classes

Semester	Lectures	Classes	Laboratories	Project	Seminars	Field exercises	ECTS
summer	15	15					6

2. EFFECTS OF EDUCATION (acc. to National Qualifications Framework)

Knowledge	<i>On successful completion of the course a student has knowledge of the functioning of transport systems, including planning, organization and rational selection of means of transport of various loads in Poland and the EU. They are able to list and characterize the factors affecting the course of the transport process and the ways of assessing the quality of this process.</i>
Skills	<i>On successful completion of the course a student has the ability to apply the methods and tools learned in solving problems related to the rational selection of transport means for tasks depending on various factors in Poland and the European Union. A student is able to plan and organize transport tasks taking into account the principles of rational selection and use of means of transport.</i>
Competences	<i>On successful completion of the course a student is able to interact and work in a group, assuming different roles in it, and to properly define the priorities for the implementation of tasks set by themselves or others in the area of proper use of means of transport for the transport task being performed.</i>

3. TEACHING METHODS

<i>example multimedia lecture, discussion, case studies</i>

4. METHODS OF EXAMINATION

<i>exam, test of closed questions, lab grades</i>

5. SCOPE

Lectures	The essence of transport systems. Characteristics of the road transport system: individual communication - linear elements, ie road and street network as well as point-network elements, eg car parks, technical facilities, reloading points, traffic flows; collective communication - its linear elements (line layout) and point-to-network networks such as, for example, stations, stops, back-up facilities, repair workshops and rolling stock, passenger flows; Characteristics of pedestrian and bicycle traffic and its linear elements (network of pedestrian and bicycle routes) and points (lookout points, parking devices for bicycles). Characteristics of other transport systems and their line elements (networks, lines) and point elements (stations, stops, ports, airports, facilities, maintenance points, etc.): rail transport, water transport, air transport, pipeline transport. Assessment of the infrastructure
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	of the Polish transport system. Factors influencing the course of the transport process and measures assessing the quality of this process. Opportunities and threats for Poland related to integration with the European Union in the field of transport.
Classes	Planning and organization of transport of various loads and people. The rules for selecting the strategy for the operation of a transport company. Determination of transport routes and selection of the shortest path.

6. LITERATURE

Basic literature	<ol style="list-style-type: none"> 1. Janić, Milan, <i>Transport Systems : Modelling, Planning, and Evaluation</i>, Boca Raton, FL : CRC Press. 2017, eBook. 2. Jałowiec, Tomasz; Dębicka, Ewa, <i>Contemporary Threats to the Continuity of Transport Systems</i>. <i>Logistics & Transport</i>. 2017, Vol. 34 Issue 2, p15-23. 3. Rodrigue, Jean-Paul; Slack, Brian; Comtois, Claude, <i>The Geography of Transport Systems</i>, London: <i>Taylor & Francis [CAM]</i>. 2009. eBook.
Supplementary literature	<ol style="list-style-type: none"> 1. Journals: <i>Transportation Research Part e-Logistics and Transportation Review</i>, 2. <i>Naval Research Logistics</i>, 3. <i>Transportation Journal Transportation Planning and Technology</i>.

