

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Means of Long-Distance Transport		Code 1010601221010621301
Field of study Transport	Profile of study (general academic, practical) (brak)	Year /Semester 1 / 2
Elective path/specialty -	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: First-cycle studies	Form of study (full-time, part-time) full-time	
No. of hours Lecture: 2 Classes: - Laboratory: - Project/seminars: -		No. of credits 2
Status of the course in the study program (Basic, major, other) (brak)		(university-wide, from another field) (brak)
Education areas and fields of science and art technical sciences		ECTS distribution (number and %) 2 100%
Responsible for subject / lecturer: dr hab. inż. Tadeusz Piechowiak email: tadeusz.piechowiak@put.poznan.pl tel. (61) 665 20 11 Wydział Maszyn Roboczych i Transportu ul. Piotrowo 3, 60-965 Poznań		Responsible for subject / lecturer: dr inż. Andrzej Wołyński email: andrzej.wolynski@put.poznan.pl tel. (61) 665 22 36 Wydział Maszyn Roboczych i Transportu ul. Piotrowo 3, 60-965 Poznań
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	The student has a basic knowledge of general education
2	Skills	Student is able to use the acquired knowledge to the analysis of specific phenomena and processes in motion objects. The student is able to solve specific problems arising in technical systems.
3	Social competencies	Student is able to prioritize important in solving the tasks posed in front of him. Student demonstrates self-reliance in solving problems, acquire and improve their knowledge and skills.
Assumptions and objectives of the course: The aim of the course is to acquaint students with the broad issues of different modes of transport		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. has a basic knowledge of the means of transport, basic technical parameters, the overall design scheme of land objects, vessels and aircrafts. - [K1A-W14]		
Skills:		
1. able to obtain information from various sources, in Polish and foreign, can integrate the information obtained to interpret and draw conclusions from them, and create and justify opinions - [K1A_U01]		
2. able to communicate in a professional environment using the formal record of design, technical drawing, concepts and definitions of the scope of the studied field of study - [K1A_U02]		
Social competencies:		
1. understands the need and knows the possibilities of continuous training, knows the need to acquire new knowledge in order to develop professional - [K1A_K01]		
Assessment methods of study outcomes		
Final test of the lectures		
Course description		

<p>Subject is divided into 4 parts :</p> <ul style="list-style-type: none"> - Road transport, - Maritime transport - Transport by rail , - Air transport <p>Basic legal requirements relating to road transport (STD) , a division of STD , STD basic systems - tasks and components . Friction vehicle - basic concepts . Traffic safety in road vehicles. Alternative sources of power .</p> <p>Basic information on the types , construction, specific features and capabilities of maritime transport for freight , passenger , mixed and special assignments.</p> <p>Basic information on the rolling stock : types of vehicles, elements of construction: wheel-rail system , body and chassis , types of traction .</p> <p>Basic information about aviation : air transport division , the types of aircraft and helicopters , lift and aerodynamics , control , drives, fleet air .</p>		
<p>Basic bibliography:</p> <p>1. lecture notes</p>		
<p>Additional bibliography:</p>		
<p>Result of average student's workload</p>		
<p>Activity</p>		<p>Time (working hours)</p>
<p>1. Preparing for classes</p>		<p>0</p>
<p>2. Participation in classes (according to plan)</p>		<p>30</p>
<p>3. Consolidation of content classes / report</p>		<p>10</p>
<p>4. Consultation</p>		<p>2</p>
<p>5. Preparation for the exam / credit</p>		<p>10</p>
<p>6. Participation in the exam / completing</p>		<p>2</p>
<p>Student's workload</p>		
<p>Source of workload</p>	<p>hours</p>	<p>ECTS</p>
<p>Total workload</p>	<p>54</p>	<p>2</p>
<p>Contact hours</p>	<p>34</p>	<p>1</p>
<p>Practical activities</p>	<p>0</p>	<p>0</p>