

**Subject card**

<b>Subject name and code</b>	Shared Mobility , PG_00200405						
<b>Field of study</b>	Logistics and Mobility						
<b>Date of commencement of studies</b>	October 2026	<b>Academic year of realisation of subject</b>			2027/2028		
<b>Education level</b>	Bachelor's studies	<b>Subject group</b>			Obligatory subject group in the field of study Subject group related to scientific research in the field of study		
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>			at the university		
<b>Year of study</b>	2	<b>Language of instruction</b>			English		
<b>Semester of study</b>	4	<b>ECTS credits</b>			3.0		
<b>Learning profile</b>	academic	<b>Assessment form</b>			credit		
<b>Conducting unit</b>							
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr Elżbieta Adamowicz				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	0.0	30.0	0.0	15.0	0.0	45
	E-learning hours included: 0.0						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	<b>Number of study hours</b>	45		0.0		30.0	75
<b>Subject objectives</b>	The aim of the course is to familiarize students with the concept of sharing economy and shared mobility as a key element of modern transport systems, sustainable development and smart cities. Students will gain theoretical and practical knowledge of different models of sharing means of transport (e.g. carsharing, bikesharing, ridesharing, e-scootersharing) and understand their impact on the economy, environment, urban planning, consumer behaviour and transport policy.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[LML3_W02] has advanced knowledge of different types of entities that require logistics support or provide logistics services	The student is able to recognize and characterize the roles of entities involved in the creation, provision and operation of shared mobility services requiring logistical support.	[SW4] test/exam - oral or written [SW2] presentation/project/paper/report
	[LML3_U06] uses its knowledge of economics, finance, management, logistics and mobility to resolve economic and social dilemmas arising in its professional work	The student is able to apply interdisciplinary knowledge to analyze and solve socio-economic problems related to the implementation and functioning of shared mobility systems.	[SU2] presentation/project/paper/report [SU4] test/exam - oral or written
	[LML3_W09] has advanced knowledge of the evolution of theories describing logistics and mobility	The student is able to explain how the development of the concept of shared mobility fits into the evolution of logistics and mobility theory.	[SW4] test/exam - oral or written [SW2] presentation/project/paper/report
	[LML3_K03] participates in the preparation of logistics and mobility projects, being able to reconcile legal, economic, ecological, political and social requirements	The student is able to design a shared mobility solution, taking into account legal, economic, ecological and social conditions.	[SK2] presentation/project/paper/report [SK4] test/exam - oral or written
	[LML3_W04] knows the types of economic and social ties and the regularities governing them, has knowledge of the ties between companies requiring logistics support or providing logistics services	The student is able to analyse the links between entities participating in shared mobility systems and assess their needs and relationships in the context of logistical support.	[SW4] test/exam - oral or written [SW2] presentation/project/paper/report

Subject contents	<p><b>I. Sharing Economy concept</b></p> <p>(history of a sharing economy concept, growth factors, features, conditions, challenges, sharing economy market)</p> <p><b>II. Ride sharing as a part of the sharing economy</b></p> <p>(sharing economy in transport sector, transport modal split, EU policy, sustainable development, urban transport problems, passengers behaviour and preferences)</p> <p><b>III. Shared mobility as an innovation in passenger transport</b></p> <p>(innovative concepts of passenger transport: electric vehicles, autonomous vehicles, sustainable transport management and organisation, key IT solutions supporting passengers, shared mobility)</p> <p><b>IV. Car as a non-private means of transport</b></p> <p>(car-sharing, car-pooling, business models, ridesharing mobile applications - the usage, new markets, legal issues, impact on modal split)</p> <p><b>V. Bike sharing</b></p> <p>(definition, history and market growth, impact on environment and public health, financing, enablers and barriers to popularization for introduction and popularization (e.g. infrastructure, weather conditions, fleet rebalancing))</p> <p><b>VI. E-scooter sharing and moped sharing</b></p> <p>(shared e-scooters mopeds as a complementary mode of urban transportation, market growth, the infrastructure problems, fleet rebalancing problem in comparison to the bike-sharing services)</p> <p><b>VII. Mobility as a Service (MaaS)</b></p> <p>(concept, implementations, challenges)</p> <p><b>VIII. Impact of shared mobility on passenger transport in urban areas</b>(identification of factors influencing changes in passengers behaviour, travel time savings as a motivation, the impact of shared mobility on sustainable urban development)</p> <p>Any doubts regarding the issues discussed during classes can be discussed during consultations.</p>											
Prerequisites and co-requisites	none											
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="448 1592 794 1626">Subject passing criteria</th> <th data-bbox="794 1592 1139 1626">Passing threshold</th> <th data-bbox="1139 1592 1493 1626">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="448 1626 794 1659">test</td> <td data-bbox="794 1626 1139 1659">51.0%</td> <td data-bbox="1139 1626 1493 1659">50.0%</td> </tr> <tr> <td data-bbox="448 1659 794 1697">project</td> <td data-bbox="794 1659 1139 1697">51.0%</td> <td data-bbox="1139 1659 1493 1697">50.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	test	51.0%	50.0%	project	51.0%	50.0%
Subject passing criteria	Passing threshold	Percentage of the final grade										
test	51.0%	50.0%										
project	51.0%	50.0%										
Recommended reading	<p>Basic literature</p> <p>Henriette Cornet, Maria Gkemou, <i>Shared Mobility Revolution, Pioneering Autonomous Horizons</i>, Springer Cham, 2025. (<a href="https://link.springer.com/content/pdf/10.1007/978-3-031-71793-2.pdf">https://link.springer.com/content/pdf/10.1007/978-3-031-71793-2.pdf</a>)</p> <p>Junfeng Jiao, <i>Shared Mobility</i>, Elsevier, 2021.</p> <p>Bielinski T., Ważna A., Electric Scooter Sharing and Bike Sharing User Behaviour and Characteristics, <i>Sustainability</i>, 2020, 12(22), 9640, available on-line: <a href="https://www.mdpi.com/2071-1050/12/22/9640/htm">https://www.mdpi.com/2071-1050/12/22/9640/htm</a></p>											

	Supplementary literature	Ata M. Khan, Susan A. <i>Shaheen</i> , <i>Shared Mobility and Automated Vehicles</i> , IET, 2021.  Schäfer M.A., A Critical Review of New Mobility Services for Urban Transport, <i>Transportation Research Procedia</i> , Elsevier, Vol. 14, 2016, available on-line: <a href="https://www.sciencedirect.com/science/article/pii/S2352146516302836">https://www.sciencedirect.com/science/article/pii/S2352146516302836</a>
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

Document generated electronically. Does not require a seal or signature.