

Course title	Shared Mobility						ECTS code	14.3.EE.FZ.3232														
							ECTS credits	5														
							max. students	30														
Name of unit administrating study	KBPST	Field of study	Economics/MSG**		Field of specialisation	NONE;																
Teaching staff	Agnieszka Ważna, Ph.D. ; Tomasz Bieliński, Ph.D.																					
Number of hours																						
Lectures	30	Classes	0	Tutorials	0	Laboratory	0	Seminars	0	Language classes	0											
Forma aktywności						Year&Type of studies*	3 SS1, 2 SS2,															
Hours with the participation of the academic teacher (including office hours, exams, others):						Semester:	5, 3,															
Hours without the participation of the academic teacher (student's self-study, homeworks):						Type of course:	optional															
Total number of hours:						0	Language of instruction:	English														
Teaching form	in-class learning																					
Teaching methods	Lectures including multimodal presentations, Activating methods in training classes, Collaborating, group activities,																					
Prerequisites (required courses and introductory requirements)																						
Required courses	No formal requirements.																					
Introductory requirements	Knowledge of key economic issues and basics of transport economics.																					
Assessment method, forms and criteria																						
Assessment method	Course completion (graded)																					
Assessment criteria	<p><b>Assessment method:</b> Students' activity during lectures (10 points), active participation in work in groups (10 points), exam in the form of a test (10 points). Maximum 30 points.</p> <p><b>Assessment criteria:</b></p> <table border="0"> <tr><td>91-100%</td><td>5</td></tr> <tr><td>81-90%</td><td>4,5</td></tr> <tr><td>71-80%</td><td>4</td></tr> <tr><td>61-70%</td><td>3,5</td></tr> <tr><td>51-60%</td><td>3</td></tr> <tr><td>50% or less</td><td>2</td></tr> </table>										91-100%	5	81-90%	4,5	71-80%	4	61-70%	3,5	51-60%	3	50% or less	2
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Course objectives																						
<b>The aim of the lecture is</b> to improve students' knowledge about shared mobility including characteristics of sharing economy concept, modern passenger transport and forms of shared mobility services.																						
Learning outcomes																						
Knowledge	MSG2_W02	Students know the terminology in the field of shared mobility.																				
	MSG2_W04	Students have a basic knowledge in the field of shared mobility. They understand characteristics of sharing economy and passenger transport, essence of shared mobility concept, conditions and effects of introducing shared mobility services.																				
Verification of learning outcomes - Knowledge																						

Outcomes	written exam	oral exam	test	essay/paper /portfolio	tasks/ homeworks	individual presentation	group presentation	classroom activities	classroom discussion	individual project	group project
MSG2_W02			X					X	X		
MSG2_W04			X					X	X		
Skills	MSG2_U02		Students can interpret economic phenomena in passenger transport sector and know how to use theoretical knowledge in the field of shared mobility services in practice.								
	MSG2_U04		Students can analyse conditions and possibilities of applying shared mobility in cities, they can invent innovative and sustainable transport solutions and products for urbanised areas.								

**Verification of learning outcomes - Skills**

Outcomes	written exam	oral exam	test	essay/paper /portfolio	tasks/ homeworks	individual presentation	group presentation	classroom activities	classroom discussion	individual project	group project
MSG2_U02								X	X		
MSG2_U04								X	X		
Attitudes	E2_K02		Students are eager to work in groups and are open to discussion in field of shared mobility and its advantages and disadvantages.								

**Verification of learning outcomes - Attitudes**

Outcomes	written exam	oral exam	test	essay/paper /portfolio	tasks/ homeworks	individual presentation	group presentation	classroom activities	classroom discussion	individual project	group project
E2_K02								X	X		

**Course contents**
**I. Sharing Economy: the essence of the idea (2h)**

(Sharing economy definition, history of a concept, distinction from access economy collaborative consumption, peer economy, collaborative economy, on-demand economy)

**II. Passenger transport: key issues (4h)**

(modes of passenger transport, passenger transport market, passenger transport in urban areas, modal split, recent problems of transport external costs, travellers' preferences, passenger transport policy)

**III. Shared mobility as an innovation in passenger transport (4h)**

(innovative concepts of passenger transport: electric vehicles, autonomous vehicles, sustainable transport management and organisation, key IT solutions supporting passengers, shared mobility, Mobility as a Service "MaaS" concept)

**IV. Car as a non-private mode of transport (4h)**

(car-sharing, car-pooling, ridesharing mobile applications - the usage, new markets, legal issues, impact on modal split)

**V. Bike-sharing (4h)**

(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)).

**VI. Scooter-sharing and other similar services (2h)**

(shared scooter and motor scooter as a complementary mode of urban transportation, the infrastructure problems, pedestrians and their safety, fleet rebalancing problem in comparison to the bike-sharing services)

**VII. Public transport problems (4h)**

(modes of public transport, organisation and management, funding schemes, services' quality, factors influencing utilization rate, best practices, case study of London, public transport availability: bike-and-ride, park-and-ride, kiss-and-fly concepts, tickets distribution, tariff and schedule standards)

**VIII. Impact of shared mobility services on passenger transport (4h)**



(identification of factors influencing changes in passenger's behaviour, travel time savings as a motivation, transport external costs' reduction as a positive effect of introducing shared mobility)

**IX. Future trends in urban mobility (2h)**

(smart city, green city, intelligent city, sustainable city and the role of the shared mobility in these concepts)

Recommended reading lists

**Recommended literature:**

C. Codagnone, B. Martens, *Scoping the Sharing Economy: Origins, Definitions, Impact and Regulatory Issues*, JRC Technical Reports, Institute for Prospective Technological Studies, Digital Economy Working Paper 2016/01, European Commission, available on-line: [https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=2783662](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2783662)

M. Kamargianni, W.L. Melinda, M.A. Schäfer, *A Critical Review of New Mobility Services for Urban Transport*, Transportation Research Procedia, Elsevier, Vol. 14, 2016, available on-line: <https://www.sciencedirect.com/science/article/pii/S2352146516302836>

T. Bieliński, A. Ważna, *New Generation of Bike-Sharing Systems in China: Lessons for European Cities*. Journal of Management and Financial Sciences, Vol. XI, Issue 33, 2018, pp. 25-42, available on-line: [http://kolegia.sgh.waw.pl/pl/KZiF/czasopisma/Journal\\_of\\_Management\\_and\\_Financial\\_Sciences\\_JMFS/Documents/02\\_Bielinski\\_33.pdf](http://kolegia.sgh.waw.pl/pl/KZiF/czasopisma/Journal_of_Management_and_Financial_Sciences_JMFS/Documents/02_Bielinski_33.pdf)

*5 ways shared mobility will be different in 2019*, INVERS Blog, available on-line: <https://invers.com/news/5-ways-shared-mobility-will-be-different-in-2019/>

Contact

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\* SS1- undergraduate studies \* SS2 - graduate studies \* SDang - doctoral studies

\*\* MSG - International Economic Relations