

Subject card

Subject name and code	Sustainable Urban Transport and Mobility , PG_00178096						
Field of study	Economics, International Economic Relations, International Business						
Date of commencement of studies	October 2023		Academic year of realisation of subject		2025/2026		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study Optional subject group		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	3		Language of instruction		English		
Semester of study	5		ECTS credits		5.0		
Learning profile	academic		Assessment form		credit		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr Aleksander Jagiełło				
	Teachers		dr Aleksander Jagiełło dr hab. Marcin Wolek				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	30		0.0		0.0	30
Subject objectives	To provide specific knowledge on sustainable urban transport and mobility.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[EKONL3_K01] recognises the importance of economic knowledge in identifying and solving economic problems and of consulting experts when difficulties in solving them independently	Student recognizes the importance of knowledge in the field of economics in the process of identifying and solving economic problems, including those related to mobility	[SK1] oral statement/conversation/discussion [SK2] presentation/project/paper/report
	[EKONL3_U01] can correctly interpret economic and social phenomena and apply knowledge of economics, finance and management sciences to explain economic phenomena	Student is able to correctly interpret economic and social phenomena and apply knowledge of economics, finance, and management sciences to explain economic phenomena and those related to mobility.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report
	[IBL3_K01] is ready to recognise the importance of knowledge in the field of international business in identifying and solving business theoretical and practical issues; is ready to consult with experts in case of facing difficulties in solving business issues individually	Student is ready to acknowledge the importance of knowledge in the field of international business in identifying and solving theoretical and practical business problems; he/she is also prepared to consult experts when encountering difficulties in independently solving business problems related to mobility.	[SK1] oral statement/conversation/discussion [SK2] presentation/project/paper/report
	[MSGL3_K01] is ready to recognise the importance of knowledge in the field of economics in the process of identifying and solving economic problems and to consult experts in case of difficulties in solving them independently	The student is ready to acknowledge the importance of knowledge in the field of transport economics in the process of identifying and solving economic problems, as well as to seek expert opinions when encountering difficulties in solving them independently	[SK1] oral statement/conversation/discussion [SK2] presentation/project/paper/report
	[MSGL3_U01] can correctly interpret and explain economic and social phenomena, analyse their causes, course and connections between these phenomena using the acquired knowledge of economics, finance and international economic relations	Student can creatively interpret and explain complex and atypical economic phenomena and the relations occurring between them, especially those related to the sustainable urban mobility, using the acquired knowledge in economics, finance and international economic relations;	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report
	[MSGL3_W01] has an advanced knowledge of economic sciences, in particular of economics and its place in the system of sciences, including within related disciplines	The student has advanced knowledge in the field of economic sciences, in particular transport economics and its place within the system of sciences, including related scientific disciplines.	[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report
	[IBL3_U01] can interpret and explain economic phenomena, analyse their causes, course and connections within these phenomena using the acquired knowledge of international business, economics and finance and complementary disciplines	Student can use acquired knowledge to describe and analyse the causes and course of economic and social processes and phenomena, especially those related to the sustainable urban mobility, and can formulate his/her own opinions and critically select data and analysis methods based on the achievements of economic and social sciences.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report
	[EKONL3_W01] has advanced knowledge of the nature of social sciences, their place in the system of sciences, knows the role of economic sciences in this system and uses universal economic terminology	Student has an in-depth and structured knowledge of economic sciences, in particular economics and sustainable urban mobility, its place in the system of sciences, its relations with other sciences and fields of knowledge;	[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report
	[IBL3_W01] has knowledge of the discipline of economics and finance, involving critical understanding of theories of international business	Student has an in-depth knowledge of the nature of sustainable urban mobility within social sciences; understands the differences between contemporary trends in ecological economics.	[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report

Subject contents	1.The city as an area of sustainable transport and mobility
	1.1. Urbanisation: global and local context
	1.2. Spatial accessibility
	1.3. Transport and smart city concept
	2.Urban transport market: supply
	2.1.Market organisation and structure
	2.2. Stakeholders on urban transport market
	2.3. Supply of urban transport services
	3.Urban electromobility
	3.1.The concept of electromobility
	3.2.New trends in electromobility in cities
	3.3.Electromobility: case studies
	4.Case study on electromobility: a study visit in the trolleybus operator (PKT Gdynia sp. z o.o.) in Gdynia
	5.Urban transport market: demand
	5.1.The nature of demand in transport
	5.2.Consumer behavior on urban transport market
	5.3.Segmentation of the passenger urban transport market
	6. Marketing research on urban transport market
	6.1. The proces of marketing research
	6.2. Main challenges for the research on urban transport market
	6.3. Selected case studies
	7.Case study on marketing research: a study visit in ZKM Gdynia (a Public Transport Authority for Gdynia)
	8. Costs and pricing on urban transport market
	8.1. Costs: a perspective of public transport operator
	8.2. External costs in public transport

	8.3. Pricing of urban transport services		
	9. Urban transport and mobility policy		
	9.1. Factors determining transport policy		
	9.2. Sustainable Urban Mobility Plans (SUMP) as a local policy tool		
	9.3. Selected case studies		
	10. Presentations of selected case studies prepared by students		
Prerequisites and co-requisites	Knowledge of basic economics issues and basics of transport economics.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	classroom activities	51.0%	50.0%
	group presentation	51.0%	50.0%
Recommended reading	Basic literature	1. SUMP for Cities Sustainable Development. Editors: M. Burinskiene, R. Uspalyte-Vitkuniene. MDPI, Basel 2021. Link to download: https://www.mdpi.com/books/pdfdownload/book/3574 2. S. Schonfelder, K.W. Axhausen, Urban Rhythms and Travel Behaviour, Routledge, London New York 2010. 3. A. Jagiello, Economic Efficiency of Sustainable Public Transport: A Literature Review on Electric and Diesel Buses, Energies, 2025 4. M. Wolek et al.: Integration of a multilevel transport system model into sustainable urban mobility planning "Sustainability" 2018	
	Supplementary literature	1. J. Shaw, et al. Towards Transport Net Zero (Transport and Sustainability Book 20), Emerald Publishing Limited 2025. 2. by L. Hansson, C. Hedegaard Sørensen, T. Rye, Public Participation in Transport in Times of Change (Transport and Sustainability Book 18), Emerald Publishing Limited 2023.	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Evaluation of SUMPs in terms of their objectives, actions, and the monitoring and evaluation systems applied.		
Work placement	Not applicable		

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