Course title	Sustainable Urban Transport and Mobility	ECTS code	14.03.5371
		ECTS credits	5
		max. students	20

Name of unit administrating study	KRT	Field of study	Economics/MSG**	Field of specialisation	NONE;

Teaching staff	Katarzyna Hebel, Associate Professor ; Marcin Wołek, Associate Professor ; Aleksander Jagiełło, Ph.D.

Number of hours

Lectures	30	Classes	0	Tutorials	0	Laboratory	0	Seminars	0	Language classes	0

Forma aktywności		Year&Type of studies*	2 SS2, 3 SS1, 1 SS2,
Hours with the participation of the academic teacher (including office hours, exams, others):		Semester:	3, 5, 1,
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, Case studies, Visiting public transport company PKT Gdynia sp.zo.o. - a trolleybus operator from Gdynia (topic on electromobility).

Prerequisites (required courses and introductory requirements)

Required courses	No formal requirements.
Introductory requirements	Knowledge of basic economics issues and basics of transport economics.

Assessment method, forms and criteria

Assessment method	Course completion (graded)
Assessment criteria	Presentation on sustainable urban transport and mobility subject (the title will be individually discussed during lecture). Evaluation criteria: 91-100 pts - A (5) 81-90 pts - B (4,5) 71-80 B (pts -4) 61-70 pts - C+ (3,5) 51-60 pts - C (3) 50 and less - F Attendance rate: 25 pts (max), presentation 75 pts (max)

Course objectives

To provide specific knowledge on sustainable urban transport and mobility.

Learning outcomes

Knowledge	E2_W01	has an in-depth knowledge of the nature of sustainable urban mobility within social sciences; understands the differences between contemporary trends in ecological economics;
	MSG2_W01	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;

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
E2_W01						X	X	X	X		

MSG2_W01						X	X	X	X		

Skills	E2_U01	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
	MSG2_U01	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;

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
E2_U01						X	X	X	X		
MSG2_U01						X	X	X	X		

Attitudes	E2_K02	is aware of the level of his/her knowledge in the field of economics and sustainable urban mobility; understands the need to extend and update this knowledge throughout his/her life
	MSG2_K02	is ready to critically assess the level of acquired knowledge, skills and professional competence in the area of international economic relations, including sustainable urban mobility

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	X		
MSG2_K02							X	X	X		

Course 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.C ase 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
11. Presentations of selected case studies prepared by students

Recommended reading lists

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. Axuausen, *Urban Rhythms and Travel Behaviour,* Routledge, London New York 2010.

3. Selected papers from the following journals: "Journal of Cleaner Production", "Energies", Transportation", "Sustainability" (I.e. M. Wolek et al.: Integration of a multilevel transport system model into sustainable urban mobility planning "Sustainability" 2018 2018, vol. 10, nr 2)

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* SS1- undergraduate studies * SS2 - graduate studies * SDang - doctoral studies
** MSG - International Economic Relations