Studia stacjonarne drugiego stopnia na kierunku Transport – profil ogólnoakademicki Card of Course **Preparation for Research**

Descript	ion of course								
Code of course		1160-TR000-MSA-0302							
Name of course		Preparation for Research							
Version of	course	2021/22							
A. Place	of the course in syste	m of studies							
Level of e	education	Second-cycle degree							
Form and mode of studies		Full-time studies							
Field of studies		Transport							
Profile of studies		General academic profile							
Specialization		Subject common to the course of study							
Place of teaching of course		Warsaw University of Technology, Faculty of Transport, Division of Traffic Control and Transport Infrastructure							
Place of realization of course		Not applicable							
Coordinator of course		Professor Dariusz Pyza, PhD, DSc, Division of of Traffic Control and Transport Infrastructure, Faculty of Transport, Warsaw University of Technology							
B. Gener	ral characteristic of th	ie course							
Group/Block of courses		Basic subjects							
Level of course		Intermediate level							
Type of course		Compulsory subject							
Language of course		English							
Location of the course in the study plan – nominal semester		3 semester							
Location of the course in the academic year		Winter semester							
Preliminary requirements - formal		Lack							
Limit of s	tudents	Lecture: 100 per	ople.						
C. Effect	ts of education and m	anner of teachin	ıg						
Purpose o		and conduct of s	g the series of le scientific research	and the	e forms of	its dissemina		f the preparation	
Effects of	f education with referen	ice to the learning	outcomes for the	e area a	nd field of	study			
No. effect	D	escription of the effect			Reference to the characteristics of learning outcomes		Reference to the learning outcomes in the program		
		Assumed learnin	g outcomes in ter	rms of k	knowledge				
W01	research and research	lge of the goals and types of scientific procedures. I.P7S_WK Tr2A_W13				A_W13			
W02	Has in-depth knowled research methods and			sults.	I.P7S_WG.o I.P7S_WK		Tr2A_W10 Tr2A_W13		
		Assumed learn	ning outcomes in	terms o	of skills				
U01		edge in the selection and use of and tools for the specificity of the			I.P7S_UW.o. III.P7S_UW.o		Tr2A_U16		
conducted research.		umed learning outcomes in the field of soci							
		_	_		al compet	ences			
KS01	Is willing to recognize cognitive problems.	e the importance of knowledge in solving			I.P7S_KK		Tr2A_K02		
Form of didactic studies and number of hours		Lecture	Exercise	Laboratory		Project		Other	
On a weekly plan		1	0		0 0			0	
Throughout the semester		15	0		0	0		0	

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Contents of		<u>Lecture</u>					
	or each form of	Objectives and functions of scientific research. Tasks and types of research. Research					
didactic stud	dies	procedures. Organization and stages of research. Methods, techniques and research					
		tools. Documenting research results. Scientific cooperation. Reliability in scientific					
		research. Publishing and presenting research results. Types of research papers.					
		Methodological elements of scientific work. Research projects and application					
Tagahina m	ath ods	sources. Legal conditions for obtaining academic degrees and titles.					
Teaching methods		Lecture: Lecture with the use of multimedia presentations.					
Methods of	verification of effects	of education					
No. effect		Methods of verification					
		Assumed learning outcomes in terms of knowledge					
W01	Written test, 5 open of	questions, it is required to provide full answers to at least 3 of these questions.					
W02	Written test, 5 open questions, it is required to provide full answers to at least 3 of these questions.						
		Assumed learning outcomes in terms of skills					
U01	Written test, 5 open of	questions, it is required to provide full answers to at least 3 of these questions.					
	Assur	med learning outcomes in the field of social competences					
KS01	Written test, 5 open o	questions, it is required to provide full answers to at least 3 of these questions.					
Methods of	evaluation	Lecture:					
		Written test, 5 open questions, it is required to provide full answers to at least 3 of					
		these questions.					
Exam		No					
Literature		Basic literature:					
		1) Creswell John W., Research Design: Qualitative, Quantitative, and					
		Mixed Methods Approaches. Sage Pubn 2018.					
		2) Creswell John W., Concise Introduction to Mixed Methods Research,					
		Sage Publications 2014.					
		3) Largan Claire, Qualitative Secondary Research. SAGE Publications Ltd 2019.					
		4) Margaret Cargill, Patrick O'Connor, Writing Scientific Research Articles. John Wiley & Sons, 2013.					
		5) Lene Cobb, Research Design and Methodology. ML Books International – IPS, 2017.					
		Supplementary literature:					
		1) Efron Sara Efrat, Writing the Literature Review, Guilford Publications 2018.					
Website of t		_					
D. Student							
Number of ECTS credits		1					
Number of hours of student's		25 hours, including: work during lectures 15 hours, reading the literature for the					
work to achieve effects of		subject 5 hours, consultations 1 hour, preparation for a test outside class hours 4					
education		hours.					
Number of ECTS credits on the		1.0 ECTS points (16 hours, including: work during lectures 15 hours, consultations 1					
course with direct participation		hour)					
of academic	teacher						
Number of I	ECTS credits on	0					
practical activities on the course							
E. Addition	al information						
Notes		As long as it does not cause changes in the relationship of a given subject with the					
		directional effects in the content of education, changes may be introduced on an					
		ongoing basis, taking into account the latest scientific achievements.					