Faculty of Civil Engineering and Environmental Sciences											
Field of study	Civil Engineering						Degree level and programme type	Master's degree Full-time study			
Specialization/ diploma path	- Study profile						academic				
Course name	Road infrastructure							Course code	19282156H		
								Course type	obligatory		
Forms and	L	С	LC	Ρ	SW	FW	S	Semester	1		
number of hours of tuition	1			1				No. of ECTS credits	2		
Entry requirements	Basis of road engineering										
Course objectives	To familiarize students with road infrastructure, including such elements as: roads, streets, squares, parking lots, junctions, etc. Presentation of devices located in the road lane related to drainage, traffic safety and environmental protection.										
Course content	Lecture: Road infrastructure as an element of transport infrastructure. The road in its cross- section versus the guidance and security of traffic. Rail communication. Crossings, junctions, passages, squares and parking lots. Engineering structures along road routes. Devices related to traffic safety and environmental protection <u>Project:</u> Assessment of the technical class of a street section based on in-situ tests.										
Teaching methods	Lecture - informative lecture, problem lecture										
Assessment method	Lect Proje writt	Lecture - written exam Project classes – evaluation of student's projects and preparation for the classes, written test									
Symbol of learning outcome	Reference to the Learning outcomes learning outcome for the field of stude						Reference to the learning outcomes for the field of study				
L01	Stud	ent ide	entifies	elem	ents of	a road	d infra	structure	K_B1_W04, K_B1_W07, K_B1_U06 K_B1_U23		
LO2	Student understands the meaning and role of element devices located in road route						e of elements and	K_B2_W10, K_B2_W12			
LO3	Stud func	ent as tioning	sess tl g devic	ne con es rela	dition ated to	and in road i	dicate nfrast	shortcomings in K_B2_U13, K_B2_U21			
LO4	Stud	ent ide	entifies	basic	road	related	safet	y problems	K_B1_U007, K_B1_U17		
LO5	Stud	ent co	operat	es in t	eams				K_B1_U14		

COURSE DESCRIPTION CARD – SPECIMEN

Symbol of		Type of tui	tion during							
learning	Methods of assessing the learning outcomes	which the outcome is								
outcome		assessed								
L01	written test	L								
1.02	evaluating student's projects and preparation for the	I P								
202	classes , tests on the lecture content	E , 1								
LO3	evaluating student's projects and performance in classes	Р								
LO4	written test	L								
LO5	evaluating student's performance in classes	Р								
LO6										
	No. of hours									
	participation in lectures	15								
	participation in classes, laboratory classes, etc.	15								
Colouistion	implementation of project tasks	5								
	working on projects, reports, etc.	10								
Calculation	participation in student-teacher sessions related to the	5								
	classes									
	preparation for and participation in exams/tests	10								
	TOTAL:	60								
	HOURS	No. of ECTS								
Student worl	37	1,5								
	35	1,5								
Basic references	Principle of transportation engineering, Partha Chakroborty, Handbook of transportation engineering, Myer Kutz, 2001 Wright P.H., Dixon K.: Highway Engineering, John Wiley&Sor	2003 ns, Inc. 2004								
	Traffic and highway engineering, N.J. Garber, L.A. Hoel, 2009									
Supplementary	Rozporządzenie MTiGW z dnia 2 marca 1999. Dz.U. Nr 43, poz. 430									
references	Gaca S., Suchorzewski W., Tracz M.: Inżynieria ruchu drogowego. Teoria i praktyka, WKiŁ 2009									
Organisational unit conducting the course	Department of Construction and Road Engineering	Date of issuing the programme								
Author of the programme	Robert Ziółkowski, PhD. Eng.	30.06.2018								

L – lecture, C – classes, LC – laboratory classes, P – project, SW – specialization workshop, FW - field work,

S – seminar