

COURSE DESCRIPTION CARD

Faculty of Civil Engineering and Environmental Sciences									
Field of study								Degree level and programme type	
Specialization/ diploma path								Study profile	Academic profile
Course name	Basics of traffic engineering							Course code	IS-FCEE-00070S
								Course type	Erasmus
Forms and number of hours of tuition	L	C	LC	P	SW	FW	S	Semester	summer
	15			30				No. of ECTS credits	4
Entry requirements	-								
Course objectives	Acquainting students with road traffic characteristics, traffic conditions – Level of Service, traffic safety and speed management.								
Course content	Characteristic of road users. Traffic research, measurements and analyses. Traffic flow characteristics. Methods of traffic conditions evaluation - level of service determination. Traffic management and traffic calming – objectives and measures. Road signs and markings. Pedestrian and bicycle facilities. Road safety - problems and needs of improvement. Skills: Acquired knowledge of research and analyses of road traffic. Ability of assessment of traffic condition. Acquired knowledge of problems concerning traffic safety.								
Teaching methods	Lecture - informative lecture, problem lecture								
Assessment method	Lecture - written exam Project classes – evaluation of student's projects and preparation for the classes, written test								
Symbol of learning outcome	Learning outcomes							Reference to the learning outcomes for the field of study	
LO1	Student characterizes traffic parameters							K_B1_W04, K_B1_W07, K_B1_U06 K_B1_U23	
LO2	Student plans and conducts traffic measurements							K_B1_W07, K_B1_W18, K_B1_U12, K_B1_U18	
LO3	Student evaluates road traffic conditions							K_B1_W08, K_B1_U13, K_B1_U18	
LO4	Student identifies traffic safety issues							K_B1_W11, K_B1_U16	
LO5	Student can use internet sources and work in team							K_U23, K_K03	

Symbol of learning outcome	Methods of assessing the learning outcomes	Type of tuition during which the outcome is assessed	
L01	written test	L	
L02	evaluating student's projects and preparation for the classes , tests on the lecture content	L, P	
L03	evaluating student's projects and performance in classes	P	
L04	written test	L	
L05	evaluating student's performance in classes	P	
L06			
Student workload (in hours)		No. of hours	
Calculation	participation in lectures	15	
	participation in classes, laboratory classes, etc.	30	
	preparation for classes, projects, implementation of project tasks	20	
	participation in student-teacher sessions related to the classes	5	
	preparation for and participation in exams/tests	10	
	TOTAL:	100	
	Quantitative indicators		HOURS
Student workload – activities that require direct teacher participation		50	2,0
Student workload – practical activities		70	2,8
Basic references	Handbook of transportation engineering, Myer Kutz, 2011 Transportation infrastructure engineering, L.A. Hoel, N.J. Garber, 2010 Rozporządzenie MTiGW z dnia 2 marca 1999. Dz.U. Nr 43, poz. 430 Traffic and highway engineering, N.J. Garber, L.A. Hoel, 2009		
Supplementary references	Wright P.H., Dixon K.: Highway Engineering, John Wiley&Sons, Inc. 2004 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.	25.02.2020	

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

S – seminar