Card of Course

Description of course	
Code of course	-
Name of course	Ergonomic design of urban transport mode
Version of course	2024/2025
A. Place of the course in system of studies	
Level of education	Intermediate
Form and mode of studies	Full-time studies
Field of studies	Transport
Profile of studies	General academic profile
Specialisation	Main field
Place of teaching of course	Faculty of Transport
Place of realization of course	Department of Information Technology and Mechatronics in Transport
Coordinator of course	*Prof. Iwona Grabarek, Ph.D, Eng.*
B. General characteristic of the course	
Block of courses	Main field
Group of courses	General
Level of course	Intermediate
Status of course	Faculty with limited choice
Language of course	English
Nominal semester	---------
Academic year	2024/2025
Preliminary requirements	The basic knowledge of ergonomics
Limit of students	No limits
C. Effects of education and manner of teaching	
Purpose of course	Acquiring knowledge and basic skills in the field of ergonomic design of means of urban transport
Effects of education	See Table 1.
Form of didactic studies and number of hours per week	
Lecture	X
Exercise type of course	
Laboratory	
Project type of course	
Contents of education	Definitions of basic concepts. Design philosophy: ergonomic design, user-centered design, universal design. Ergonomic requirements for the operator's cabin and passenger compartment. Methods of ergonomic evaluation of designed means of transport. Special requirements for users with reduced efficiency.
Methods of evaluation	Writing test and individual work in the field of acquired knowledge
Methods of verification of effects of education	See Table 1.
Exam	No
Literature	[1] Bhise V. D.: Ergonomics in the Automotive Design Process, CRC Press Taylor&Francis Group, 2012 [2] Pheasant S., Haselgrave Ch.M.: Bodyspace. Anthropometry, Ergonomics and the Design of Work., Taylor&Francis, 2006 [3] Stanton N., Hedge A., Salas E., Hal H.: Handbook of Human Factors and Ergonomics., 2005 by CRC Press LLC

Website of the course	Does not have
D. Student's activity	
Number of credits ECTS	3
Number of hours of student's job for achievement of education's effect (description):	10 hours – lectures 28 hours – reading related materials and own work 20 hours – realizing recommended exercises 2 hours – consultations
Number of credits ECTS on the course with direct participation of academic teacher	1 ECTS – 10 hours lecture
Number of credits ECTS on practical activities on the course	2 ECTS
E. Additional information	
Notes	
Date of last edition	2024/2025

Table 1. General academic profile

Course's effects		**Field effects**	**Area effect**
Knowledge			
Effect:	Student has a basic knowledge about the different approach in designing	Tr1A_W09	T1A_W04 T1A_W05 T1A_W08
Code of effect:	W_01		
Verification:	Test		
Effect:	Student has knowledge of the principles of ergonomic design	Tr1A_W07	T1A_W02 T1A_W07 T1A_W08
Code of effect:	W_02		
Verification:	Test		
Skills			
Effect:	Student is able to apply the ergonomic rules in designing of transport modes	Tr1A_U11	T1A_U09
Code of effect:	U_01		
Verification:	Individual work /ergonomic evaluation/		
Effect:	Student is able to assess the adaptation of the means of transport to disabled people	Tr1A_U17	T1A_U13
Code of effect:	U_02		
Verification:	Individual work /ergonomic evaluation/		
Social competences			
Effect:	---		
Code of effect:	---		
Verification:	---		