

## Subject card

Subject name and code	Vehicle safety, PG_00040104							
Field of study	Mechanical Engineering, Mechanical Engineering							
Date of commencement of studies	October 2020		Academic year of realisation of subject			2022/2023		
Education level	first-cycle studies		Subject group			Optional subject group Subject group related to scientific research in the field of study		
Mode of study	Part-time studies		Mode of delivery			at the university		
Year of study	3		Language of instruction			Polish -		
Semester of study	6		ECTS credits			2.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Department of Machin	ne Design and	Vehicles -> Fa	aculty of Mecha	anical E	ngineer	ing and Ship	Technology
Name and surname	Subject supervisor							
of lecturer (lecturers)	Teachers							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory Project		t	Seminar	SUM
of instruction	Number of study hours	15.0	0.0	0.0	0.0		0.0	15
	E-learning hours inclu	ıded: 0.0						
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	15		5.0		30.0		50
Subject objectives	Acquainted with the principles of designing safe cars. Translating these principles into concrete design solutions vehicles and their respective teams.							
Learning outcomes	Course out	Course outcome Subject outcome Method of verification						rification
	[K6_U11] is able to a operation of devices the construction solu usage, safety, enviro economic and legal of	Active and passive safety. Principles of constructing safe vehicles. Chassis, chassis, braking systems, lighting, tires, seat belts, airbags, fire extinguishing systems. ABS, ASR and ESP systems. Air conditioning and satellite navigation. Reversing sensors and car radar. Research of vehicles and their assemblies. Influence of the road and road traffic organization. Safe operation of vehicles. Child safety in vehicles.			[SU3] Assessment of ability to use knowledge gained from the subject			
	[K6_W08] possesses knowledge including methodology of designachine parts, mech devices, selection of materials, manufactu operation, with the life	the gning nanical construction nring and	Active and passive safety. Principles of constructing safe vehicles. Chassis, chassis, braking systems, lighting, tires, seat belts, airbags, fire extinguishing systems. ABS, ASR and ESP systems. Air conditioning and satellite navigation. Reversing sensors and car radar. Research of vehicles and their assemblies. Influence of the road and road traffic organization. Safe operation of vehicles. Child safety in vehicles.			[SW1] Assessment of factual knowledge		
Subject contents	Active and passive safety. Principles of construction of safe vehicles. Bodys, chassises, bracking systems, lights, tyres, safety belts, air bags, fire protection systems. ABS, ASR and ESP systems. Air conditioning and GPS. Backing sensors and car radar. Vehicle and it"s units researches. Road and traffic organization influence. Safe maintenance of vehicle. Children safety in vehicles.							
Prerequisites and co-requisites	No requirements							

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade	
and criteria	Midterm colloquium	50.0%	100.0%	
Recommended reading	Basic literature	1. Wicher J.: Bezpieczeństwo samochodów i ruchu drogowego. WKiŁ, Warszawa, 2004. 2. Afanasjew L. L., Djakow A. B., Ilarionow W. A.: Czynne bezpieczeństwo samochodu. WKiŁ, Warszawa, 1986. 3. Iwanow W. N., Lalin W. A.: Bierne bezpieczeństwo samochodu. WKiŁ, Warszawa, 1984. 4. Technika Motoryzacyjna - miesięczniki. 5. Auto-Technika Motoryzacyjna - miesięczniki. 6. Auto-International - miesięczniki. 7. Auto-Świat - tygodniki. 8. Materiały reklamowe firm: BMW, Mercedes-Benz, Renault, Opel, Bosch.		
	Supplementary literature No requirements			
	eResources addresses	Adresy na platformie eNauczanie:		
Example issues/ example questions/ tasks being completed	-			
Work placement	Not applicable			

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