

关。GDAŃSK UNIVERSITY 多 OF TECHNOLOGY

Subject card

Subject name and code	Vehicle diagnostics, PG_00039933								
Field of study	Mechanical Engineering, Mechanical Engineering								
Date of commencement of									
studies			Academic year of realisation of subject			2022/2023			
Education level	first-cycle studies		Subject gro	Subject group			Optional subject group		
						Subject group related to scientific			
Marila of study						research in the field of study			
Mode of study	Full-time studies		Mode of delivery			-	at the university		
Year of study	3		Language of instruction			Polish			
Semester of study	6		ECTS credits			1.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit		and Machine	Design -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname	Subject supervisor		dr hab. inż. Grzegorz Ronowski						
of lecturer (lecturers)	Teachers		dr inż. Sławomir Sommer						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project Sen		Seminar	SUM	
	Number of study hours	0.0	0.0	15.0	0.0		0.0	15	
	E-learning hours inclu	l ided: 0.0							
Learning activity and number of study hours	Learning activity	n didactic Participation in			Self-study SUM		SUM		
	classes includ			consultation hours					
	Number of study	plan 15		4.0		6.0 25		25	
	hours								
Subject objectives	Introduction to basic issues related to vehicle diagnostics.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_U03] is able to identify, formulate and develop the documentation of a simple design or technological task, including the description of the results of this task in Polish or in a foreign language and to present the results using computer software or other aiding tools		The student is able to diagnose the basic systems of a vehicle.			[SU4] Assessment of ability to use methods and tools			
	[K6_W08] possesses basic knowledge including the methodology of designing machine parts, mechanical devices, selection of construction materials, manufacturing and operation, with the lifetime cycle					[SW1] Assessment of factual knowledge			
Subject contents	Measurement of braking forces on a board. The measurement of the car's suspension geometry. Researchslack in the steering. Measuring the compression engine. Measurement of leakage of the combustionchambers of the engine. Analysis of diagnostic information in OBD car.								
Prerequisites and co-requisites									
Assessment methods	Subject passing criteria		Passing threshold			Per	Percentage of the final grade		
and criteria	Reports		56.0%			100.0%			

Recommended reading	Basic literature	1. Hebda M., Niziński S., Pelc H.: Podstawy diagnostyki pojazdówmechanicznych. WKŁ. Warszawa. 1980.2. Trzeciak K.: Diagnostyka samochodów osobowych. WKŁ.Warszawa. 1998.3. Merkisz J., Marurek St.: Pokładowe systemy diagnostycznepojazdów samochodowych. WKŁ. Warszawa. 2004.4. Niziński S.: Diagnostyka samochodów osobowych i ciężarowych.Dom Wydawniczy BELLONA Warszawa. 1999.			
	Supplementary literature	1. Reimpel J.: Budowa samochodów Podstawy Konstrukcji, WKŁ,warszawa, 1997.			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed	Measurement of braking force on a bench plate.				
Work placement	Not applicable				