

Subject card

Cubicat name and add	Fundamentals of Machine Design II, PG_00055397								
Subject name and code									
Field of study	Mechanical Engineering								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2026/2027			
Education level	first-cycle studies	rst-cycle studies		Subject group			Obligatory subject group in the field of study		
						Subject group related to scientific 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	5		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Institute of Mechanics and Machine Design -> Faculty of Mechanical Engineering and Ship Techn				chnology				
Name and surname	Subject supervisor prof. dr hab. inż. Michał Wasilczuk								
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	atory Project		Seminar	SUM	
of instruction	Number of study hours	0.0	0.0	0.0	30.0		0.0	30	
	E-learning hours inclu	ıded: 0.0			!				
Learning activity and number of study hours	Learning activity	Participation in classes including plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30		2.0		18.0		50	
Subject objectives	Presenting the knowledge and acquiring the skills of calculation methods used in machine design as well as practical designing of a simple mechanical device								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_U11] is able to analyse the operation of devices and compare the construction solutions applying usage, safety, environmental, economic and legal criteria					[SU1] Assessment of task fulfilment			
	[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					[SU1] Assessment of task fulfilment			
	[K6_U07] is able to design a typical construction of a mechanical device, component or a testing station using appropriate methods and tools, adhering to the set usage criteria					[SU1] Assessment of task fulfilment			
Subject contents	making technical documentation and a project of a mechanical device								
Prerequisites and co-requisites	mechanics, strength of materials, engineering drawing and drafting, Machine Design I								
Assessment methods	Subject passing criteria		Pass	ing threshold		Per	Percentage of the final grade		
and criteria	Project		100.0%						
Recommended reading	Basic literature	Prezentacje do wykładów ze strony www.pg.gda.pl/~mwasilcz Wykład z Podstaw Konstrukcji Maszyn z Ćwiczeniami Rachunkowymi - skrypty PG, wyd. PG							
	Supplementary literature		Podstawy Konstrukcji Maszyn (Fundamentals of Machine Design - series of handbooks) edited by PWN Podstawy Konstrukcji Maszyn (Fundamentals of Machine Design), WNT, editor M. Osiński						

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	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	design problem with graphical eleme	ents
Work placement	Not applicable	

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