



Subject card

Subject name and code	Team Project, PG_00055771						
Field of study	Mechanical and Medical Engineering						
Date of commencement of studies	October 2021	Academic year of realisation of subject			2023/2024		
Education level	first-cycle studies	Subject group			Optional subject group		
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			4.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Institute of Mechanics and Machine Design -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Leszek Dąbrowski					
	Teachers	mgr inż. Marek Łubniewski dr inż. Sebastian Grelik-Urbanowski					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	30.0	0.0	30
E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours		Self-study		SUM
	Number of study hours	30	22.0		48.0		100
Subject objectives	Presentation of the design process and solve engineering problems						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_U01] he/she is able to acquire knowledge and self-studying, he/she is able to find needed information in specialist books, databases and other sources, he/she is able to integrate information and draw conclusions, he/she is able to communicate by using different technics in work and outside	Student selects knowledge sources and synthesises gained information			[SU2] Assessment of ability to analyse information		
	[K6_U02] he/she is able to prepare design and technology documentations, present results of engineering tasks in Polish and English	Student prepares documentation of a multidisciplinary project			[SU5] Assessment of ability to present the results of task		
	[K6_U05] he/she is able to use analytic and modelling methods to formulate and solve engineering tasks related to the mechanical-medical area	Student solves practical engineering tasks			[SU1] Assessment of task fulfilment		
[K6_U07] he/she is able to identify the problem and list simple engineering tasks to solve this problem in practice, he/she is able to critically analyze the proposed technical solutions and conclude whether these solutions can be implemented to solve problems related to design of mechanical devices and mechanical-medical devices	Student applies methods and techniques to solve engineering problems adequate to a given tasks			[SU4] Assessment of ability to use methods and tools			

Subject contents	<p>Defining the problem. Solving engineering tasks using current knowledge and expertise. The use of modern tools supporting engineering activities and cooperation.</p> <p>It is planned, to perform projects in cooperation with students from other degree courses, for example Mechatronics. Students will cooperate in teams to expand existing or develop new solutions (based on a given specifications and constraints) in scope of, for example, mechanical construction, automatic control of device functions, communication, sensors, actuators, safety elements etc</p>											
Prerequisites and co-requisites												
Assessment methods and criteria	<table border="1" data-bbox="448 389 1487 465"> <thead> <tr> <th data-bbox="448 389 794 427">Subject passing criteria</th> <th data-bbox="794 389 1141 427">Passing threshold</th> <th data-bbox="1141 389 1487 427">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="448 427 794 465">design task</td> <td data-bbox="794 427 1141 465">60.0%</td> <td data-bbox="1141 427 1487 465">100.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	design task	60.0%	100.0%			
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Recommended reading	<table border="1" data-bbox="448 472 1487 600"> <tbody> <tr> <td data-bbox="448 472 794 501">Basic literature</td> <td colspan="2" data-bbox="794 472 1487 501">No requirements</td> </tr> <tr> <td data-bbox="448 501 794 555">Supplementary literature</td> <td colspan="2" data-bbox="794 501 1487 555">Teamwork and Project Management. K. Smith. McGraw-Hill Education 2013</td> </tr> <tr> <td data-bbox="448 555 794 600">eResources addresses</td> <td colspan="2" data-bbox="794 555 1487 600">Adresy na platformie eNauzanie:</td> </tr> </tbody> </table>			Basic literature	No requirements		Supplementary literature	Teamwork and Project Management. K. Smith. McGraw-Hill Education 2013		eResources addresses	Adresy na platformie eNauzanie:	
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Example issues/ example questions/ tasks being completed	<p>Project of the device for close transport of patients with limited mobility</p> <p>Project of the device for monitoring selected parameters of the sportsman during performing his exercises</p>											
Work placement	Not applicable											