

Subject card

Subject name and code	Fundamentals of Machine Design II, PG_00040062							
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			Obligatory subject group in the field of study		
						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	5		ECTS credits		6.0			
Learning profile	general academic profile		Assessment form		exam			
Conducting unit	Faculty of Mechanical Engineering and Ship Technology							
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Janusz Musiał					
	Teachers		dr hab. inż. Janusz Musiał					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	Project Semina		SUM
	Number of study hours	30.0	8.0	0.0	8.0		0.0	46
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	earning activity Participation ir classes includ plan				Self-study		SUM
	Number of study hours	46		14.0		90.0		150
Subject objectives	Giving information and teaching ability to use basic tachniques and methods utilized in design of machine parts							

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Kis U3 is able to identify, commutate and develop the documentation of a simple design task Student can apectly a simple design task Student can appect task Student can design a standard method and tools, and proper task Student can design a standard method and tools, and proper task Student can design a standard method and tools, and proper task Student can design a standard method and tools, and proper task Student can design a standard mechanical device appears Student can design a standard mechanical device appears Student can design a standard mechanical device Student can design a standard mechanical design task Student can design a standard mechanical design appears Student can design a standard mechanical design app	Learning outcomes	Course outcome	Subject outcome	Method of verification			
on mechanics, including the processes of modelling methods and machine processes of modelling methods and dynamics of rigid objects and basic knowledge on volvations.		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		[SU1] Assessment of task			
Incombedge including the methodology of designing machine parts, mechanical devices, selection of construction materials, manufacturing and operation, with the lifetime cycle [KG_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 [KG_U11] is able to analyse the operation of devices and compare the construction of subtions applying usage, safety, environmental, economic and legal criteria Subject contents Subject contents Subject contents Welded joints, roller bearings, slider bearings, transmissions, springs, fatigue		on mechanics, including the processes of modelling mechanical systems, statics, kinematics and dynamics of rigid objects and basic knowledge on	of modeling methods and machine				
International device, component or a testing station using appropriate methods and tools, adhering to the set usage criteria IK6_UT1] is able to analyse the operation of devices and compare the construction solutions applying usage, safety, environmental, economic and legal criteria Subject contents Subject contents Welded joints, roller bearings, slider bearings, transmissions, springs, fatigue Percentage of the final grade project Subject passing criteria Passing threshold Percentage of the final grade project Subject passing criteria Passing threshold Percentage of the final grade project Subject passing criteria Passing threshold Percentage of the final grade project Subject passing criteria Passing threshold Percentage of the final grade project Subject passing criteria Passing threshold Percentage of the final grade project Subject passing criteria Passing threshold Percentage of the final grade project Subject passing criteria Passing threshold Percentage of the final grade project Subject passing criteria Passing threshold Percentage of the final grade project Subject passing criteria Passing threshold Percentage of the final grade project Subject passing criteria Passing threshold Percentage of the final grade project Subject passing threshold Percentage of the final grade project Subject passing threshold Percentage of the final grade project Subject passing threshold Percentage of the final grade project Subject passing threshold Percentage of the final grade project Subject passing threshold Percentage of the final grade project Subject passing threshold Percentage of the final grade project Subject passing threshold Percentage of the final grade Project Pro		knowledge including the methodology of designing machine parts, mechanical devices, selection of construction materials, manufacturing and	methods of designing machine	contained in written work and			
Operation of devices and compare the construction solutions applying usage, safety, environmental, economic and legal criteria		typical construction of a mechanical device, component or a testing station using appropriate methods and tools, adhering to					
Prerequisites and co-requisites Assessment methods and criteria Subject passing criteria		operation of devices and compare the construction solutions applying usage, safety, environmental,	operation of a mechanical design and compare different design				
Prerequisites and co-requisites Assessment methods and criteria Subject passing criteria Passing threshold Percentage of the final grade project 50.0% 30.0% 10.	Subject contents	welded joints, roller bearings, slider bearings, transmissions, springs, fatique					
project 50.0% 30.0%	Prerequisites						
Supplementary literature Tim Brown - Change by przez Design	Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
Recommended reading Basic literature podręczniki PKM - wydawnictwo WNT skrypty PKM - PG MArek Dietrych PKM I II i III Supplementary literature eResources addresses Adresy na platformie eNauczanie: Podstawy konstrukcji maszyn II - Moodle ID: 27317 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27317 Podstawy konstrukcji maszyn II - Moodle ID: 27317 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27317 Podstawy konstrukcji maszyn II - Moodle ID: 27317 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27317 Podstawy konstrukcji maszyn II - Moodle ID: 27317 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27317 Podstawy konstrukcji maszyn II - Moodle ID: 27317 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27317 Example issues/ example questions/ tasks being completed	and criteria	project	50.0%	30.0%			
Recommended reading Basic literature podręczniki PKM - wydawnictwo WNT skrypty PKM - PG MArek Dietrych PKM I II i III Supplementary literature eResources addresses Adresy na platformie eNauczanie: Podstawy konstrukcji maszyn II - Moodle ID: 27317 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27317 Podstawy konstrukcji maszyn II - Moodle ID: 27317 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27317 Podstawy konstrukcji maszyn II - Moodle ID: 27317 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27317 Podstawy konstrukcji maszyn II - Moodle ID: 27317 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27317 Example issues/ example questions/ tasks being completed		tutorials	56.0%	20.0%			
skrypty PKM - PG MArek Dietrych PKM I II i III Supplementary literature Tim Brown - Change by przez Design eResources addresses Adresy na platformie eNauczanie: Podstawy konstrukcji maszyn II - Moodle ID: 27317 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27317 Podstawy konstrukcji maszyn II - Moodle ID: 27317 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27317 Podstawy konstrukcji maszyn II - Moodle ID: 27317 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27317 Example issues/ example questions/ tasks being completed skrypty PKM - PG MArek Dietrych PKM I II i III Tim Brown - Change by przez Design Adresy na platformie eNauczanie: Podstawy konstrukcji maszyn II - Moodle ID: 27317 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27317		exam	56.0%	50.0%			
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Example issues/ graphical form example questions/ tasks being completed							
Work placement Not applicable	example questions/						
	Work placement	Not applicable					

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