

Subject card

Subject name and code	CAD - Computer Aided Design, PG_00044430								
Field of study	Engineering Management								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2022/	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	at the university		
Year of study	1		Language of instruction			Polish			
Semester of study	2		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Informatics in Management -> Faculty of Management and Economics								
Name and surname	Subject supervisor		dr inż. arch. Karolina Krause-Brykalska						
of lecturer (lecturers)	Teachers dr inż. arch. Karolina Krause-Brykalska								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t Seminar		SUM	
	Number of study hours	0.0	0.0	16.0	0.0		0.0	16	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	ning activity Participation in di classes included plan		Participation in consultation hours		Self-study SUM		SUM	
	Number of study hours	16 5.0				54.0 75			
Subject objectives	To familiarize the students with the basics of design using specialized CAD software. To transfer the knowledge in the field of computer-aided design and the practical use of selected CAD programs.								
Learning outcomes	Course outcome Subject outcome Method of verification						fication		
	[K6_U06] uses basic theoretical knowledge to solve selected organizational problems, design technical solutions and manage projects, including engineering projects		technical documentation using the CAD/CAM/CAE software; is able to properly format the prints,			[SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment			
	[K6_W05] knows the statistical and IT methods and tools that enable the acquisition and presentation of data on the organisation's resources, including technical resources		specific of computer-aided design process; knows the rules and			[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge			
Subject contents	Introduction. Fusion 360 user interface. Modelling of simple solids. Sketching. The use of SCULPT space. Modification of models and creation of components. Design project management. Assembly of components. Rendering and creating drawing documentation. CAM and animations.								
Prerequisites and co-requisites	Basic knowledge of engineering drawing, knowledge of computer operating systems.								
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade				
	Practical exercises		60.0%			40.0%			
	Midterm colloquium		60.0%			60.0%			

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Recommended reading	Basic literature	Exercises shared by the instructors. Software producer's training materials available online.				
	Supplementary literature	Any literature on the design with Fusion 360.				
	eResources addresses	Adresy na platformie eNauczanie:				
		Komputerowe wspomaganie projektowania (ZI, niestacjonarne 2022/2023) - Moodle ID: 24366 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=24366				
Example issues/ example questions/ tasks being completed	Using 3D modelling, follow these steps: 1) create a cuboid with a base of a square with a geometric centre at the beginning of the coordinate system, with a side of 98 mm and a height of 37 mm 2) set a cylinder with a diameter of 63 mm and a height of 31 mm on the rectangular prism 3) using the SHELL command, convert the solid into a shell with a wall thickness of 5 mm 4) cut the shell in half using the YZ plane 5) create components from both halves and spread them apart • Complete the model of the crank system based on the attached design documentation including the assembly drawing and executive drawings of individual components.					
Work placement	Not applicable					

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