

Subject card

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Subject name and code	ADVANCED CAD SYSTEMS, PG_00041295								
Field of study	Civil Engineering								
Date of commencement of studies	February 2025		Academic year of realisation of subject			2025/2026			
Education level	second-cycle studies		Subject group			Optional subject group			
Mode of study	Full-time studies		Mode of delivery			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 Metal Structures -> Faculty of Civil and Environmental Engineering								
Name and surname	Subject supervisor		mgr inż. Paweł Pieczka						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	0.0	0.0	30.0	0.0		0.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation i classes includ		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30		5.0		40.0		75	
	Student learns how to use basic tools and functions of the selected software dedicated to 3D-modelling, detailling and dimensioning of the steel structures. Student learns the principles of the preparation of the steel structures workshop documentation.								
Learning outcomes	Course out	Course outcome		Subject outcome			Method of verification		
	[K7_U15] has advanced skills in civil engineering within offered specialization/profile		Student is able to use software dedicated to 3D-modelling, detailling and dimensioning of the steel structures.			[SU1] Assessment of task fulfilment			
	[K7_W02] knows principles of analysis, design and dimensioning of complex constructions and its elements		Student knows the principles of the use of the software dedicated to 3D-modelling, detailling and dimensioning of the steel structures.			[SW1] Assessment of factual knowledge			
	[K7_U02] can design and dimension complex steel, concrete (including reinforced), wood and masonry construtions and its details		Student is able to design and dimension selected connections of the steel structures.			[SU1] Assessment of task fulfilment			
Subject contents	Demonstration of the selected software dedicated to 3D-modelling, detailling and dimensioning of the steel structures. Modelling of the beam and plate elements. Modelling of the 2D and 3D structures. Modelling of the connections: bolts and welds. Collision checks. Generating workshop drawings and deliverables.								
Prerequisites and co-requisites									
Assessment methods	Subject passing criteria		Passing threshold			Percentage of the final grade			
and criteria	Test		60.0%			50.0%			
	Project		60.0%			50.0%			
Recommended reading	Basic literature Autodesk Advance Steel - User's Guide. 21:23 Strona 1 z 2								
	Dasic iliciature		Autodesk Ad	vance Steel - U	ser's Gu	ııae.			

	Supplementary literature	-			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed	Creating 3-D model of the steel structures. Generating workshop drawings and deliverables.				
Work placement	Not applicable				

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