

Subject card

Subject name and code	Descriptive geometry, PG_00055694								
Field of study	Architecture								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2022/2023			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	1		Language of instruction			Polish			
Semester of study	1		ECTS credits			4.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Visual Techniques -> Faculty of Architecture								
Name and surname	Subject supervisor		dr inż. arch. Anna Wancław						
of lecturer (lecturers)	Teachers		dr inż. arch. Anna Wancław						
			mgr inż. arch. Michał Malewczyk						
			mgr inż. arch. Joanna Kowalewska						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	et	Seminar	SUM	
of instruction	Number of study hours	30.0	0.0	0.0	15.0		0.0	45	
	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	45		8.0		47.0		100	
Subject objectives	Development of the ability of spatial manipulation in two dimensional drawing. Acquiring skills in using axonometric drawing.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_W01] knows and understands construction problems, building and engineering issues related to building design; principles, solutions, constructions and building materials used in simple engineering tasks in the field of architectural and urban design		He knows various methods of mapping space. Correctly constructs and reads spatial objects in various types of projections, also with the use of popular digital programs.			[SW1] Assessment of factual knowledge			
	[K6_U04] is able to use analytical methods to formulate and solve project tasks		He can use various methods of space mapping to solve simple spatial problems. He can present the effects of work in an attractive way. Has manual skills in the precise execution of linear drawings.			[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject			

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Subject contents	Descriptive Geometry, lecture:
oubject contents	
	Introduction, elements of the space, projection, Monge projections
	2. Projection of point, line and plane
	3. Common elements, shadows
	4. Parallelism, perpendicularity, transformation
	5. Construction of polyhedrons,
	6. Sections of polyhedrons, compounds of collineation
	7. Revolution, developments of polyhedrons
	8. Piercing points, intersection of polyhedrons
	9. Orthogonal axonometric projection
	10. Oblique axonometric projection
	11. Geometry of roofs
	12. Spatial model of the roof, digital visualization
	13. Horizontal projection
	14. Horizontal projection, engineering application
	15. The road in the terrain
	Descriptive Geometry, project:
	Introduction, elements of the space, projection, Monge projections
	2. Projection of point, line and plane, transformation
	3. Affiliation of elements
	4, 5. Common elements, shadows
	6. Construction of polyhedrons,
	7. Sections of polyhedrons, compounds of collineation
	8. Revolution, developments of polyhedrons, piercing points,
	9. Intersection of polyhedron with line

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	10.Test 1.Common elements, shadows. Polyhedrons						
	11, 12. Orthogonal axonometric projection, intersection of polyhedrons						
	13, 14. Oblique axonometric projection, shadows						
	15. Test 2. Axonometry						
Prerequisites and co-requisites							
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Quality of drawings from Descriptive Geometry	100.0%	50.0%				
	Aquiring minimum points form Descriptive Geometry reviews	51.0%	50.0%				
Recommended reading	Basic literature	Błach A., <i>Inżynierska geometria wykreślna</i> , Gliwice 2002					
		Górska R., <i>Geometria wykreślna,</i> Kraków 2015					
	Supplementary literature	Grochowski B., <i>Geometria wykreślna z perspektywą stosowaną</i> , PWN 2018					
		Otto F.E., Geometria wykreślna, PWN 1977					
	eResources addresses	Adresy na platformie eNauczanie:					
		Geometria wykreślna I, 2022/23 - Moodle ID: 25265 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=25265					
Example issues/ example questions/ tasks being completed	Construct shadows of polyherdra and line						
tacke boiling completed	2. Construct projections of the polyhedron, based on the data of the axis of symmetry and one of the vertices						
	3. Construct the line of intersection of two given polyhedra						
	4. In axonometry defined by axes x, y, z contruct a polyhedron and its own shadow and the shadow cast on the planes of projection						
Work placement	Not applicable						

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