Poznan University of Technology Faculty of Civil and Environmental Engineering

STUDY MODULE DESCRIPTION FORM							
Name of the module/subject Code							
Descriptive Geometry				1010104111010340005			
Field of	study		Profile of study (general academic, practical)	Year /Semester			
Civil Engineering First-cycle Studies			(brak)	1/1			
Elective path/specialty			Subject offered in: Polish	Course (compulsory, elective) obligatory			
Cycle of study:			Form of study (full-time,part-time)	<u> </u>			
	First-cyc	cle studies	part-time				
No. of h	ours			No. of credits			
Lectur	e: 20 Classes	s: 12 Laboratory: -	Project/seminars:	4			
Status o		program (Basic, major, other)	(university-wide, from another fie	•			
		(brak)	(brak)				
Educati	on areas and fields of sci	ence and art		ECTS distribution (number and %)			
Resp	onsible for subj	ect / lecturer:					
	iotr Rejmenciak						
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	61665-2320 dział Elektryczny						
	Piotrowo 3A 60-965 Po	oznań					
Prerequisites in terms of knowledge, skills and social competencies:							
1	Knowledge	Basic knowledge of geometry.					
2	Skills	Ability to use a pencil, compass, triangle and ruler.					
3	Social	Focus on increased knowledge and new skills in order to more fully participate in professional					
	competencies	and social life.					
Assu	mptions and obj	ectives of the course:					
Developing spatial imagination and transfer rules mapping of spatial objects in the plane, allowing the recording and reproduction of the actual shapes and sizes of these objects. Understanding the principles of projection and projection							
aksonometrycznego rectangular (Monge's projection). Study outcomes and reference to the educational results for a field of study							
Knov	/ledge:						
		acterize the basic geometric object	ts [K_W01]				
Students define and characterize the basic geometric objects [K_W01] They recognize their relationship - [K_W01]							
They Know the rules for mapping methods: Monge projection, axonometric projection [K_W01]							
Skills:							
1. Students know how to use the mapping method to produce three-dimensional space on a plane [K_U02, K_U02]							
2. They can determine the position of elements in space [K_U02, K_U02]							
3. They can draw lines cross the basic solids and surfaces [K_U01, K_U07]							
Socia	al competencies:						
1. The student is aware of the importance of technical drawing as a way to communicate relevant technical sciences.							

Assessment methods of study outcomes

Faculty of Civil and Environmental Engineering

-two colloquiums (2x20 pts),

-two homeworks (2x10 pts).

points:mark 55-60 : 5,0 49-54 : 4,5 43-48 : 4,0

37-42 : 3,5 31-36 : 3,0 -30 : 2,0

Course description

Monge's projection.

Elements belonging and shared.

Flat roofs.

Viewport transformation.

Turnover and examples.

Sections and develop lumps.

Axonometric view.

Sections and develop the cone and the cylinder.

The vaults.

Basic bibliography:

- 1. W. Jankowski, Geometria wykreślna, Wydawnictwo Politechniki Poznańskiej, 1999
- 2. J. Korczak, Cz. Prętki, Przekroje i rozwinięcia powierzchni walcowych i stożkowych, Wydawnictwo Politechniki Poznańskiej, 2007
- 3. B. Grochowski, Geometria wykreślna z perspektywą stosowaną, Wydawnictwo Naukowe PWN, 2010

Additional bibliography:

- 1. F. Otto, Zbiór zadań z geometrii wykreślnej, PWN, Warszawa 1963.
- 2. Z. Lewandowski, Geometria wykreślna, PWN, Warszawa 1977

Result of average student's workload

Activity	Time (working hours)
1. Preparing for classes	10
2. Preparing for written tests	20
3. Preparing to homeworks	20

Student's workload

Source of workload	hours	ECTS
Total workload	100	4
Contact hours	50	2
Practical activities	0	0