

## COURSE SYLLABUS

**Ken:** *Geometry*

**Credits range** (*max. 12 cr.*): 8

**Subjects:** 1) *DESCRIPTIVE GEOMETRY 1*, 2) *DESCRIPTIVE GEOMETRY 2*

(1.) Subject name: <i>DESCRIPTIVE GEOMETRY 1</i>	Credits: 4
Subject labelling: obligatory	
Subject's theoretical or practical 'training characteristics' <sup>12</sup> : 80-20 (credit%)	
Type of the class <sup>1</sup> : lecture / practical lessons 2 / 2 per week, ( <i>language of the course: english</i> )	
Evaluation <sup>2</sup> : examination	
Further exercises: midterm tasks, homeworks	
Semester: 1st	
Prerequisites: -	
General course description	
<p>This lecture and practical based course aims to develop the skills of architecture students regarding the following topics, in frame of descriptive geometry: Application of imagery methods used in architecture and by related branches of building industry and civil engineering, internalizing of switching among these in frame of the descriptive geometry. Detection and application of relation of sizes regarding projected elements by use of geometrical constructions, imagery and intersection of solids and polyhedrons.</p> <p>The studied imagery methods of this course are bases of the conventional axonometric projections, central projection like central axial collineation, orthogonal projections like Monge-system and multi view orthographic projection as well as bases of the contour map system.</p>	
Selected bibliography:	
<p>Minor Clyde Hawk, Schaum's Outline of Theory and Problems of Descriptive Geometry            Julia McMorrough, Drawing for Architects            Francis D. K. Ching, Architecture – Form, Space and Order</p>	
Course teacher: Attila Béla Széll dr. associate professor, DLA habil.	
Instructor:	
Réka Sárközi, assistant lecturer	
Requirements in study period:	
<p>The participation on the classes is obligatory. The maximum amount of the missed classes is 3 per semester due to the Study and Examination Regulations.</p>	
Necessary tools for the practical lessons:	
<p>three rulers: 1 linear, 2 perpendicular (45°, 30°-60°)            callipers            printed exercise sheets</p>	

pencil, colored pencils

**The exercises and scores of the semester:**

homework:	max. $8 \cdot 5 = 40$	
1st midterm task:	max. 30	min. 15
2nd midterm task:	max. 30	min. 15
	max. 100	min. 55

**homework:**

deadline for maximum 5 points: next practical lesson

replacement for maximum 4 points: 2 weeks after deadline

**1st midterm task:**

deadline for maximum 30 points: 26th of October

replacement for maximum 25 points: 9th of November

**2nd midterm task:**

deadline for maximum 30 points: 14th of December

replacement for maximum 25 points: 2nd of January

**Grades:**

88-100	5
77-87	4
66-76	3
55-65	2
0-54	1

**Classes in the semester 2017/2018. I:**

Code	Teacher	Day/time	Place	Note
EPE132AN-EA-00	Réka Sárközi	Monday 7:45	A201	
EPE132AN-GY-01	Réka Sárközi	Monday 9:30	A316	
EPE132AN-GY-02	Réka Sárközi	Monday 11:15	A316	

Schedule of the semester		
week	LECTURE	PRACTICE
1.	ORIENTATION DAY	
2.	Introduction. Projection types. Monge-system, Image of spatial elements.	Spatial element in Monge-system.
3.	Parallelism, perpendicularity in the Monge-system. Position of lines, polygons. Image of solids.	Spatial elements, polygons and solids in Monge-system.
4.	Axonometric drawing. Types of Axonometry.	Spatial elements in Axonometry.
5.	Image plane transformation. New image plane in Monge system.	Image plane transformation. New image plane in Monge system.
6.	Axonometry with transformation.	Axonometry with transformation.
7.	Consultation about the 1st midterm task. Deadline: 26th of October.	
8.	NATIONAL HOLIDAY	
9.	AUTUMN BREAK	
10.	Solid's intersection with image plane transformation.	Architectural drawing in Monge and Axonometry.
11.	Planes in Monge-system. Piercing point and planes' intersection.	Architectural drawing in Monge and Axonometry.
12.	Solid's intersection without transformation.	Architectural drawing in Monge and Axonometry.
13.	Intersection of two solids.	Architectural drawing in Monge and Axonometry.
14.	Consultation about the 2nd midterm task. Deadline: 14th of December.	
15.	Consultation about the 2nd midterm task. Deadline: 14th of December.	

week	Monday	Tuesday	Wednesday	Thursday	Friday
<b>study period</b>					
1	Orientation day				
2	Lecture + Practice				
3	Lecture + Practice				
4	Lecture + Practice				
5	Lecture + Practice				
6	Lecture + Practice				
7	Consultation				
8	NATIONAL HOLIDAY				1st midterm task deadline
9	AUTUMN BREAK				
10					1st midterm task replacement
11	Lecture + Practice				
12	Lecture + Practice				
13	Lecture + Practice				
14	Consultation				
15	Consultation				2st midterm task deadline
<b>exam period</b>					
1					
2	CHRISTMAS				
3	NEW YEAR		2st midterm task replacement		
4					
5					