COURSE SYLLABUS

Ken: ***Geometry***
Credits range *(max. 12 cr.):* ***8***
Subjects: 1)***DESCRIPTIVE GEOMETRY 1,*** 2)***DESCRIPTIVE GEOMETRY 2***

(1.) Subject name: ***DESCRIPTIVE GEOMETRY 1***	**Credits: 4**
Subject **labelling**: **obligatory**	
Subject's theoretical or practical 'training characteristics'[1]: **80-20** (credit%)	
Type of the class[1]: lecture / practical lessons **2 / 2** per week, (***language*** *of the coure: english)*	
Evaluation[2]: examination **Further exercises: midterm exam, homework**	
Semester: **1st**	
Prerequisites: -	

General course description

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.
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.

Selected bibliography:

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

Coure teacher: Attila Béla Széll dr. associate professor, DLA habil.

Instructor:
Réka Sárközi, assistant lecturer

Requirements in study period:
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.

Necessary tools for the practical lessons:
three rulers: 1 linear, 2 perpendicular (45°, 30°-60°)
callipers
printed exercise sheets

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[1] **Nftv. 108. §** 37. *tanóra*: a tantervben meghatározott tanulmányi követelmények teljesítéséhez az oktató személyes közreműködését igénylő foglalkozás (előadás, szeminárium, gyakorlat, konzultáció), amelynek időtartama legalább negyvenöt, legfeljebb hatvan perc.
[2] pl. folyamatos számonkérés, évközi beszámoló

pencil, colored pencils
one A/2 sized paper per semester

The exercises and scores of the semester:

homework:	max. 10*4=40	min. 17
midterm exam:	max. 30	min. 13
final exam:	max. 30	min. 13
	max. 100	min. 50

Grades:

88-100	5
75-87	4
63-74	3
50-62	2
0-49	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 11:15	A316	
EPE132AN-GY-02	Réka Sárközi	Monday 9:30	A316	

Scedule of the semester

1.	Introduction. Bases of the projektive and spatial geometry.
2.	Basic planar geometry drawings.
3.	Projection types. Monge-system, Axinimerty, Perspective.
4.	Parallelism, perpendicularity in the Monge-system.
5.	New image plane in Monge-system.
6.	Joining and intersection in Monge-system.
7.	Intersection of a planar solid.
8.	NATIONAL HOLIDAY
9.	AUTUMN BREAK
10.	MIDTERM EXAM
11.	Intersection of two planar solids.
12.	Measurement, real size of solids.
13.	Rotational solids in Monge-system.
14.	Intersection of a rotational solid.
15.	FINAL EXAM