

General Information:

Name of Course:	APPLICATION OF COMPUTERS 2.
Course Code:	PM-RESNE081A
Semester:	4 th
Number of Credits:	2
Allotment of Hours per Week:	2 Practical Lessons /Week
Evaluation:	Signature (with grade)
Prerequisites:	Application of computers I.

Instructors: **Tibor Zoltán Dányi, teacher's assistant**
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Introduction, Learning Outcomes:

As a continuation of Application of Computers 1. this course gives a detailed overview of the advanced features of an architectural CAD software. Since the software has already a large number of special functions, it is almost impossible to process all of them within the classes. Thus one of the main objective of the course is to boost motivation in students to discover them individually through the discussed topics. At the end of the semester each student should have a confident knowledge about the planning application drawings creation workflow. This knowledge will be elementary also when the upcoming courses will introduce the BIM technique.

General Course Description and Main Content:

During the semester ArchiCAD 18 will be the chosen software. The newest edition includes the latest developments of AEC CAD industry. In practical tasks students will have to use all the previously learnt features of the software and have to implement the new knowledge to the self-prepared drawings and models. It is strongly suggested to backup the practicing files to a personal USB drive or memory stick and refresh memories by practicing at home with the same files.

Methodology:

During the practical lessons the software features will be presented in template projects. It is strongly recommended to keep these files and repeat the steps several times at home as well. Two exams (drawing tasks) will be given during the semester from the freshly gained knowledge and the existing skills.

Schedule: Continuous participation is required during the semester.
The rough outline of the schedule is as follows:

Week 1, (01.02.):	Semester start, discussion of semester objectives
Week 2, (08.02.):	Overview and practicing of Application of Computers 1. curriculum topics
Week 3, (15.02.):	Trace and reference, on screen view options, insertion of drawings, scaling, printing preferences
Week 4, (22.02.):	Section settings, Camera objects, Dimension tools, Grid tool
Week 5, (29.02.):	Guidelines, snap points, tracker, pick up and inject properties
Week 6, (07.03.):	Beam and Column –Unique profiles, Profile manager, Objects, lamps, placement of objects, gravity
Week 7, (14.03.):	National Day
Week 8, (21.03.):	1st drawing task (exam)
Week 9, (28.03.):	Spring Break
Week 10, (04.04.):	Solid element operations, unique objects,
Week 11, (11.04.):	Layer setting, priorities controlled by layers, 3D cutaway, Linked modules
Week 12, (18.04.):	Surface settings, Creative imaging
Week 13, (25.04.):	File preparation for export: Artlantis, 3ds, dwg, ifc, sketchup, etc.
Week 14, (2.05.):	2nd drawing task (exam)
Week 15, (9.05.):	Corrective exam (if necessary), Semester closing

Studio Culture:

The course is based on through collaboration, participation and discussions through lessons. This is an interaction between Students and Faculty; used the teaching methods like 'Problem-based learning' and 'learning-by-doing'. The communication and work should reflect a respect for fellow students and their desire to work with regard to noise levels, noxious fumes, etc – from each site of participants.

Attendance:

Attending is required all classes, and in case of absence from more than 30% of the total number of lessons will be grounds for failing the class. To be in class at the beginning time and stay until the scheduled end of the lesson is required, tardiness of more than 20 minutes will be counted as an absence. In the case of an illness or family emergency, the student must present a valid excuse, such as a doctor's note.

Evaluation + Grading

Points to be collected during the semester:

1st Practical test: 20 points (min. 10 points)
2nd Practical test: 30 points (min. 15 points)

Numeric Grade:	5	4	3	2	1
Evaluation in points:	86%-100%	74%-85%	62%-73%	50%-61%	0-49%

PTE Grading Policy:

Information on PTE's grading policy can be found at the following location:

Students with Special Needs:

Students with a disability and needs to request special accommodations, please, notify the Deans Office. Proper documentation of disability will be required. All attempts to provide an equal learning environment for all will be made.

Readings and Reference Materials:

Educational software download (Registration required):

<http://www.graphisoft.hu/downloads/>

Tips and tricks, troubleshooting:

<http://helpcenter.graphisoft.com/>