

**General Information:**

**Name of Course:** **BUILDING CONSTRUCTION V.**  
**Course Code:** EPB107AN  
**Semester:** 5th  
**Number of Credits:** 3  
**Allotment of Hours per Week:** 3 Lectures / Week  
**Evaluation:** Mid-semester grade  
**Prerequisites:** Completed Building Construction IV.

**Instructors:** **Dr Gergely SZTRANYÁK, assistant professor**  
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### General Subject Description

During the last three semesters students learned the construction methods of load-bearing wall and reinforced concrete skeleton structures from the base up to the roof structure. After these precast reinforced concrete skeleton structures, transparent building constructions, multi-layered wall and facade structures and suspended ceilings are the current topics.

### Learning Outcomes

The aim of the semester is to draw and understand the elements of the architectural construction plans based on the previous studies. Students need to make construction detail drawings individually and in groups.

### Subject Content

During the semester students learn the construction design methods of using precast reinforced concrete skeleton structures, openings, claddings and suspended ceilings.

The tasks and requirements are given according to the syllabus. All these information along with the lectures and guidance notes are continuously uploaded to **Neptun Meet Street**.

### Examination and Evaluation System

#### General Requirements

*In all cases. Annex 5 of the Statutes of the University of Pécs, the **Code of Studies and Examinations (CSE) of the University of Pécs** shall prevail. <https://english.mik.pte.hu/codes-and-regulations>*

Attending is required for all practical lessons and lectures. Unexcused absences adversely effects the grade, and in case of absence more than 30% of the total number of lessons is a reason for failing the class. To be in class at the beginning time and stay until the scheduled end is required. More than 20 minutes delay is counted as an absence. In case of illness or family emergency students must present a valid excuse, such as a doctor's note.

**During the semester students need to get enough points for the signature in the study period. According to the achieved points students can reach their grade.**

In order to get the signature for the course students need to do **both written tests** achieving minimum 8 points for each (40-40%).

#### Written Tests

The written accounts test the knowledge of the students. Facts mentioned or referred at the lectures are asked. No aid can be used during the written tests. Students can write only on sheets according to a specific layout submitted until the end of the 4<sup>th</sup> week: 2 x (covering paper + 8 pieces of A/4 with frames on both sides).

The written accounts can be corrected during the exam period (1 appointment for each). If somebody still has less than 40% of the points of a written account, gets the 'denied' remark. This can be corrected only once with a substitution exam for the signature in the 1<sup>th</sup> week of the exam period.

### Points Acquired in the Study Period

TASK	TOPIC	MAXIUM POINTS
1 <sup>st</sup> Written Test	Topics of the lectures (Week 1-7)	20 (min.8 needed)
2 <sup>nd</sup> Written Test	Topics of the lectures (Week 8-15)	20 (min.8 needed)
<b>TOTAL:</b>		<b>40</b>
<b>MIN.:</b>		<b>16</b>
		<b>POINTS</b>
		<b>POINTS</b>

### Readings and Reference Materials Required

- Lecture notes, guidance notes
- Ed.: Francis D.K. Ching: European Building Construction Illustrated

### According to the achieved points students can reach the following grades.

**(Grade 5) Outstanding work:** Execution of work is thoroughly complete and demonstrates a superior level of achievement overall with a clear attention to detail in the production of drawings and other forms of presentation. The student is able to synthesize the course material with new concepts in a thoughtful manner, and communicate his/her ideas in an exemplary way.

**(Grade 4) High quality work:** Student work demonstrates a high level of craft, consistency, and thoroughness throughout drawing and presentation work. The student demonstrates a level of thoughtfulness in addressing concepts and ideas, and participating in group discussions. Work may demonstrate excellence but less consistently than a '5' student.

**(Grade 3) Satisfactory work:** Student work demonstrates problem solution with few minor or major problems. Drawing and presentation work are complete and satisfactory, showing minor problems in detail.

**(Grade 2) Less than satisfactory work:** Drawing and presentation work is substandard, incomplete in significant ways, showing insufficient attention to details.

**(Grade 1) Unsatisfactory work:** Student work demonstrates several major problems in the basic knowledge needed to solve the tasks of the course. Drawing and presentation work is insufficient and weak.

#### Grading Scale:

Numeric Grade:	5	4	3	2	1
Evaluation in	85%-100%	70%-84%	55%-69%	40%-54%	0-39%
points:	34-40	28-33	22-27	16-21	0-15

### Methodology

The course is based on individual architectural skills with regular consultations and presentations. The practical use of the topics of the lectures are learned during the practical lessons by drawing. According to these students will be able to make their drawing tasks alone.

### 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.

### *Detailed requirements and schedule of the Course*

#### Schedule

The rough outline of the schedule is the following:

WEEK	LECTURE
1	Introduction
2	Precast concrete structures
3	Precast concrete structures
4	Lightweight construction – wood
5	Heat flow, vapour diffusion
6	Openings – wood, plastic, metal
7	Shading systems
8	<b>Written test 1</b>
9	Semester break
10	Brick- stone suspended facade
11	Fibre-cement, steel suspended facade
12	Curtain walls
13	Suspended ceilings
14	Steel construction
15	<b>Written test 2</b>
16	<b>Retake of written tests</b>