

General Information:

Name of Course:

BUILDING CONSTRUCTION 5

Course Code:

PMRESNE041A

Semester:

6th

Number of Credits:

7

Allotment of Hours per Week:

2 Lectures/Week

2 Practical Lessons /Week

Evaluation:

Exam

Prerequisites:

Building Construction 4.

Instructors:

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Introduction, Learning Outcomes:

This subject presents the methodology of structural design through the following lectures introducing students to wall and frame construction: systematization of halls and their load-bearing structures, the design and construction principles of components, framework, roof structures and external walls of prefabricated reinforced concrete halls; framework, external walls and roof structures of steel-framed halls; framework of timber-framed halls; skylighting. This subject includes an architectural design project in the practical part where students can practice and further develop the content of the lectures

General Course Description and Main Content:

This subject continues the study of students attending the M.Sc. programme. The aim is for students to be able to solve tasks independently, by using the methods and systems they learned about.

The Degree Project's course includes:

- There are lectures on the topics of the course, each week. The theoretical knowledge will be deepened in practical lessons delivered by the teacher. Students need to prepare the following drawings during the semester:
- Final construction drawings of a hall structure from precast reinforced concrete or steel: floor plans of all different levels M1:100, 2 sections M1:100, 2 elevations m1:100, 5 details M1:5 or M1:10;
- Students should take 2 exams on topics studied in lectures. No notes may be used.
- During the semester students should develop a study according to the themes of lectures. The theme of the study must be approved by the teacher. The studies should be presented on the practical classes.

Methodology:

The course is based on individual architectural skills with regular consultations and presentations.

Schedule:

	Thursday	Lectures: 11.15-12.45	Practical lessons: 13.00-14.30
1.	4 th February	Systematization of hall buildings	Description of drawing task Checking up the topics of studies
2.	11 th February	Frame structure of reinforced concrete skeleton halls i.	Consultation of drawing task, floorplan
3.	18 th February	Frame structure of reinforced concrete skeleton halls ii.	Consultation of drawing task, floorplan Presentations of students studies
4.	25 th February	Details of reinforced concrete skeleton halls i.	Consultation of drawing task, floorplan Presentations of students studies
5.	3 rd March	Details of reinforced concrete skeleton halls ii.	Consultation of drawing task Presentations of students studies
6.	10 th March	Details of reinforced concrete skeleton halls iii.	Submit the floorplans Consultation of drawing task, sections
7.	17 th March	Frame structure of steel-framed halls	Consultation of drawing task, sections
8.	24 th March	Perimeter walls of steel-framed halls i.	Submit the sections Consultation of drawing task, elevations
9.	31 st March	Spring Break	Spring Break
10.	7 th April	Exam	Consultation of drawing task, details
11.	14 th April	Perimeter walls of steel-framed halls ii.	Consultation of drawing task, details
12.	21 st April	Roof structures of steel-framed halls i.	Consultation of drawing task, details
13.	28 th April	Roof structures of steel-framed halls ii.	Consultation of drawing task, details
14.	5 th May	Details of steel-framed halls	Submit all part of drawing task
15.	12 th May	Exam	Recovering of deficiencies

Studio Culture:

The course is based on thorough collaboration, participation and discussions in the lessons. This is an interaction between students and faculty, using teaching methods such as 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 of the participants.

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Course Syllabus

Schedule: F, periods 3-6

Location: PTE MIK, A-317

Attendance:

Attending is required in all classes, and will impact the grade (max. 10%). Unexcused absences will adversely affect the grade, 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.

The highest possible grade on the late project (in two weeks) is a 2. The Final Project cannot be turned in late.

Evaluation + Grading

The final grade for this course is a composite of the (1) score collected during the semester and (2) the result of the exam.

(1)

Grading of work completed during the semester will follow the course structure with the following weights: Exam 1, 20%, Exam 2, 20%, Plan of a hall structure 40%. Study 10%. The remaining 10% will be assessed according to participation, progress, effort and attitude. Please note that attendance will adversely affect one's grade, both in direct grade reduction and in missing work in the development of a project. The final grade will be based on the following guidelines:

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, models and other forms of representation. The student is able to synthesize the course material with new concepts and ideas in a thoughtful manner, and is able to communicate and articulate those ideas in an exemplary fashion in.

4. High quality work. Student work demonstrates a high level of craft, consistency, and thoroughness throughout drawing and modelling work. The student demonstrates a level of thoughtfulness in addressing concepts and ideas, and participates in group discussions. Work may demonstrate excellence but less consistently than an '5' student.

3 Satisfactory work. Student work addresses all of the project and assignment objectives with few minor or major problems. Graphics and models are complete and satisfactory, exhibiting minor problems in craft and detail.

2. Less than satisfactory work. Graphic and modelling work is substandard, incomplete in significant ways, and lacks craft and attention to detail.

1. Unsatisfactory work. Work exhibits several major and minor problems with basic conceptual premise, lacking both intention and resolution. Physical representation in drawing and models is severely lacking, and is weak in clarity, craft and completeness.

Grading Scale:

Numeric Grade:	5	4	3	2	1
Evaluation in points:	90%-100%	77%-89%	64%-76%	51%-63%	0-50%

(2)

Students must take an examination in the exam period. It consists of two parts:

- written: drawing task, preparing two plans related to the themes of semester. 180 minutes. Maximum points: 50
- oral: Two of the theorems listed below have to be developed. Maximum points: 50

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PTE Grading Policy:

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

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Students with Special Needs:

Students with a disability and needs to request special accommodations, please, notify the Dean's 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:

R. Barry: THE CONSTRUCTION OF BUILDINGS Volume 4

Andrea Deplazes: Constructing Architecture

Alexander Reichel, Kerstin Schultz: Support/Materialize