

<p>HALF SEMESTER COURSE 2 AUTONOMY Small public building design in "green" way</p>	<p>Credits: 8</p>	<p>in cooperation with Dept. of PUBLIC BUILDING DESIGN and Dept of BUILDING ENERGETICS AND PLUMBING</p>
<p>Tutors: Zoltan SCHRAMMEL Csaba SZIKRA Gyula GRÉDICS Zsuzsanna GÉCZI</p>	<p>Responsible: Gábor NEMES Vice Dean</p>	
<p>Way of training</p>	<p>Practical interdisciplinary design course – Lectures, team consultations, common presentations and evaluation in English – according to the timetable</p>	

TIMETABLE AND TOPIC SCHEDULE

Mondays 8:15 AM - 4 PM, Wednesdays 8:15 PM - 4 PM at the room K 222

week	MONDAY	WEDNESDAY
<p>1. 25. Oct.</p>	<p>National Holiday of Hungary</p>	<p>introduction, general information (2 classes) Lecture by Public Building Design Dept. (2 classes) Lecture by Mechanics, Materials & Structures Dept. (2 classes)</p>
<p>2. 30. Oct.</p>	<p>Morning: site visit - 4 hours Meeting in front of main gate of "K" organising the teams</p>	<p>holiday</p>
<p>3. 6. and 8. Nov.</p>	<p>analysis of function, location and references consultation with both Dept.s</p>	<p>building the base model of teams consultation with both Dept.s</p>
<p>4 13. and 15. Nov</p>	<p>presentation and common evaluation of analysis, concept, base and individual models</p>	<p>building physics laboratory practice (8 classes)</p>
<p>5. 20. and 22. Nov</p>	<p>architectural lecture about references (2 classes) visit of reference buildings (6 classes)</p>	<p>design, 4 classes consultation 4 classes including methods of calculations</p>
<p>6. 27. and 29. Nov</p>	<p>design, 4 classes consultation 4 classes</p>	<p>design, 4 classes consultation 4 classes</p>
<p>7. 4. and 6. Dec.</p>	<p>final presentation of completed projects and evaluation, discussion</p>	

- **Conditions:**
- - accepted presentations of site analysis (slideshow)
- - accepted preliminary presentations (slideshow, preliminary plans, site model, structural model)
- - submitted and presented project plans, (floor plans, section, all elevations 1:200/100, site plan 1:500/200, and model 1.500/200/100). Plans and model should represent architectural forms, details and structures.
- - presented calculation of energetic balance of the designed object
- **Final presentation: 6th of DEC, WED, Presentation starts at 9:30AM**

- **Grading:**
- The final grade will be established as the result of the personal and team work of the student in class and at home. The submissions, presentations and class work will be graded according to the following:
 - 1st preliminary presentation: 15 %
 - energetic study and validation: 20 %
 - activity during semester workshops: 15 %
 - final submission and presentation: 50 %

Grades:	0-49 %	failed	(1)
	50-62 %	passed	(2)
	63-75 %	satisfactory	(3)
	76-89 %	good	(4)
	90-100 %	excellent	(5)

- **Way of completion:**
- - active participation in consultations with home-prepared plans and models
- (presence at least 70% of consultations - according to Code of Studies)
- - submission and presentation as detailed before
- - result is published in NEPTUN system

Short description of the course

Interdisciplinary Project Design for exchange students is a 2x half-semester design course in English, organized by two Departments - one design and one engineering - for "AUTONOMY" Project the Public Building Design and Building Energetics and Plumbing departments. The special objective of the course is to explore the interaction between architectural form, function and "green deal". Architectural design based on the analysis of the location, natural and cultural heritage, architectural details is going to give a common frame for individual architectural proposals. Design program - a small public function with cca. 300 sm - will be provided by personal experiences of site analysis and local impressions, research works. Buildings should be designed in the way to be able to run autonomous - independent of public energy networks. Sustainability should be a general deal of the design. Teamwork and individual work will constantly support each other. The semester will also give space to work on some contemporary questions in architecture like the relationship and social aspects of public and private spaces, effects of landscape design, etc. With the help of tutors students can learn a simple way to calculate the energy consumption of the designed building.

Structure of the semester

Three main phases form the basic structure of the course:

1. **Analysis** – discovering the characteristics of the landscape: history, layers, development plans, etc. The analysis starts with individual exploration, but the final workgroups of 2-4 people will take on the analysis together. From the beginning a teamwork involving all the class will take place based on the discussions of the findings and of the differences of cultures and visions.
2. **References** – groups will collect references of green buildings and how the experiences can be successfully used to express the architect's vision.
3. **Modeling, form finding** - groups will build physical models. The shapes of these models will be used as input of the architectural design process.
4. **Architectural plans** – architectural behavior, interpreting the context: building and landscape design. A full documentation of an architectural intervention will be developed in scale 1:200/100. Design work will be assisted by consultations in class, and common presentation is held with collective critical evaluation.

Site

Budapest, hill side and river side