

<p>HALF SEMESTER COURSE 2 SUSPENSION Small public building design with experimentally found structural forms</p>	<p>Credits: 8</p>	<p>in cooperation with Dept. of PUBLIC BUILDING DESIGN and Dept of MECHANICS, MATERIALS & STRUCTURES</p>
<p>Tutors: Zoltan SCHRAMMEL Péter VÁRKONYI Piroska VARGA Zsuzsanna GÉCZI Dániel VETŐ Tamás THER Orsolya GÁSPÁR Dezső HEGYI</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

Tuesdays 8:15 AM - 4 PM, Fridays 8:15 PM - 4 PM at the room K 322

week	TUESDAY	FRIDAY
<p>1. 05. and 08. April</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>Morning: site visit - 4 hours Meeting in front of main gate of “K” organising the teams analysis of function, location and references (2 classes)</p>
<p>2. 12. and 15. April</p>	<p>consultation with both Dept.s Structural workshop (2 classes)</p>	<p>presentation about site analysis building the base model of teams consultation with both Dept.s</p>
<p>3. 19. and 22. April</p>	<p>building the base model of teams consultation with both Dept.s</p>	<p>building the structure models design of individual buildings consultation with both Dept.s</p>
<p>4 26. and 29. April</p>	<p>presentation and common evaluation of analysis, concept, base and individual models</p>	<p>design, 4 classes consultation 4 classes</p>
<p>5. 03. and 06. May</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 digitizing structural models</p>
<p>6. 10. and 13. May</p>	<p>design, 4 classes consultation 4 classes</p>	<p>design, 4 classes consultation 4 classes</p>
<p>7. 17. May</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.
- **Deadline: 17th of MAY, TUE, Presentation starts at 8:30AM**

- **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 during a common discussion on 20th of May 2016.

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 "SUSPENSION" Project the Public Building Design and Mechanics, Materials & Structures departments. The special objective of the course is to explore the interaction between architectural form and structural behavior. An 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 will include a spatial shell or tent structure, in which the geometry strongly affects the structural behavior. The students will explore how realistic shapes can be found by using physical modeling (inspired by design methodology of Heinz Ischler), and how these special forms can be integrated into their architectural concept. 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.

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. **Structural references** – groups will collect references of shell and tent structures to learn about the richness of their forms and how they can be successfully used to express the architect's vision.
3. **Structural modeling form finding** - groups will build physical models of shells using elastic textiles, cables, or soap films. 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, Danube riversides of the Óbuda Island (place of famous summer Sziget Fesztivál)

