



**BIOPLASTIC LABORATORY**  
New technology university building on BME's historic campus

**Department of Explorative Architecture &  
Department of Building Constructions**

## **COURSE DESCRIPTION**

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BME Department of Polymer Engineering Technology has long experimented with bioplastics. The department is located in the historical 'MT' building, in the historical Campus of the BME, and it is a listed building, a historical monument. The department needs a new, larger, more refined laboratory building next to the old one. It's an architectural challenge to place a contemporary technology and education building. To build a contemporary technology and education building in this historic context is an interesting and challenging design task for an architect. In this course we use an experimental process, based on analysis, lectures, drawing and modeling. Main structural solutions of the projects are also required as a technical part. We ask design teams to prepare their drawings, 3d model and mock-ups week by week, to make your concept more precise.

The students teams will also need to do detailed site analysis and develop a reconstruction concept.

## **PROGRESS THROUGHOUT THE SEMESTER**

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The course will be held in a workshop style. Students' will be accompanied by consultants of both departments (design & technical). Students will have to complete their tasks in groups of 3 members combined with smaller individual tasks. Groups will be international and formed in a way that students in the group are from different years of their studies.

In the beginning of the course students will get familiar with the site and the task in the form of presentations and site visit. Students have to document an analysis of the site, and find inspiring examples related to the task and their monument preservation solutions.

The analysis of monument preservation solutions should be done separately, but in a way that complements the above study of the inspiring examples. It should address the functions and the unique design choices that influenced the monument preservation solutions of the reconstruction.

Apart from the presentation of these analyses the progress of projects has to be presented on two occasions before the final presentation, as indicated in the schedule. All presentations will be immediately evaluated by the consultants who will discuss the work in public.

The classroom K 222 is available for the students all day on Tuesday and Thursday. Note that the door is not locked and other students use the classroom on other days. Please arrive no later than it is indicated in the schedule. You will listen to each other's presentations on almost every Tuesday. Thursday is for consultations, lectures and workshops.

**SITE**

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*photo: Zsolt VASAROS/Department of Explorative Architecture*



**TECHNOLOGY**

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**TIMETABLE AND PLANNED SCHEDULE**

Tuesdays 9:15 AM – 6:00 PM, Thursdays 9:15 PM – 6:00 PM in room K 222

	Tuesday	Thursday
week no.1 24. and 26. October	<b>09:15 pm</b> INTRODUCTION, SITE VISIT  Students' short introduction. Introductory lectures by instructors. Setting up the teams with 3 students and topics of preliminary study. Visit the site with the instructors.	<b>09:15 pm</b> STUDENTPRESENTATION of preliminary study of site analysis  consultation with both departments and build a common make-up and 3D model
week no.2 31. and 02. October	<b>09:15 pm</b> BUILDING CONSTRUCTIONS LECTURE  consultation with both departments and build a common make-up and 3D model	<b>09:15 pm</b> CONSULTATION with both departments  consultation with both departments and deadline for make-up and 3D model
week no.3 07. and 09. November	<b>09:15 pm</b> CONSULTATION with both departments  consultation with both departments and deadline for make-up and 3D model	<b>09:15 pm</b> CONSULTATION with both departments  consultation with both departments and deadline for make-up and 3D model
week no.4 14. and 16. November	<b>09:15 pm</b> STUDENT PRESENTATION concept design	<b>NO CONSULTATION</b>  Scientific Students' Associations Day
week no.5 21. and 23. November	<b>09:15 pm</b> CONSULTATION with both departments	<b>09:15 pm</b> CONSULTATION with both departments
week no.6 28. and 30. November	<b>09:15 pm</b> CONSULTATION with both departments	<b>09:15 pm</b> CONSULTATION with both departments
week no.7 05. and 07. December	<b>09:15 pm</b> CONSULTATION with both departments	<b>NO CONSULTATION</b>  preparation of the final presentation
week no.8 12. December	<b>09:15 pm</b> STUDENT PRESENTATION of final completed projects	

\* the schedule is subject to future changes

## **PARTICIPANTS**

The course Project Design is ran by two departments: Department of Explorative Architecture and Department of Building Constructions. Students' work will be accompanied by consultants of both departments.

Lecturers responsible: Dávid SZABÓ DLA, Lajos Gábor TAKÁCS PhD

Consultants: Department of Explorative Architecture  
– Adél SÁGHEGYI, Rania MATROUK, Imre Szűcs

in cooperation with: Department of Building Constructions

## **CREDIT**

HALF SEMESTER COURSE 1	Credits: 8	in cooperation with Department of Explorative Architecture and Department of Building Constructions
Tutors: Dávid SZABÓ DLA Lajos Gábor TAKÁCS PhD	Responsible: Dávid SZABÓ DLA Lajos Gábor TAKÁCS PhD	
Way of training:	Practical interdisciplinary design course – Lectures, team consultations, common presentations and evaluation in English – according to the timetable	

## **CONDITIONS**

<ul style="list-style-type: none"> <li>- active presence during the semester (70% of classes)</li> <li>- accepted presentation of preliminary study of site analysis and inspiring examples</li> <li>- presence during all workshops</li> <li>- accepted presentation of concept design (architectural program, masterplan, site plan, architectural plans, sections, elevations, perspective view of the structural system with materials and approximate dimensions, middle scale mock-up)</li> <li>- accepted presentation of final design project plans (architectural program, masterplan, site plan, architectural plans, sections, elevations, perspective view of the structural system with materials and approximate dimensions, large scale mock-up)</li> </ul>
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**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:

concept design: 20 %  
 activity during semester workshops: 20 %  
 final submission and presentation: 60 %

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

