

COMPLEX DESIGN 1**2026/27.
1ST SEMESTER**

BASIC INFORMATION		
COURSE NAME	COMPLEX DESIGN I	
COURSE CODE(S)	YAXCD1FMNF	
ORGANIZATIONAL UNIT	Óbuda University Ybl Miklós Faculty of Architecture, Institute of Architectural Engineering	
DEPARTMENT	Architectural Design MSc	
RESPONSIBLE FOR THE SUBJECT	prof. Dr. habil Csanády Gábor Mátyás DLA (Theory)	
ORGANIZER/ INSTRUCTOR/ LECTURER	prof. Dr. habil Csanády Gábor Mátyás DLA (Theory)	csanady.gabor.matyas@ybl.uni-obuda.hu
	Ian Kevin Chaplin (Studio Instructor)	chaplin.ian@ybl.uni-obuda.hu
PREREQUISITES	none	
HOURS OF LECTURES	2 hours	
HOURS OF STUDIO CLASS	4 hours	
FIELD WORK	0 hours	
ASSIGNMENT	Weekly deliverables, participation, midterm presentation, final presentation	
CREDITS	8 credits	
COURSE TASK, BRIEF DESCRIPTION	Holiday home on a Hill The first four weeks an introductory design project will take place. The challenge is to design a holiday home for a family of five (ages: 45,45,13,9,6) on the Basalt hill in Badacsony Hungary (46.795903, 17.486470 or 46.795903, 17.486470). The family is looking for a contemporary interpretation of vernacular architecture. The net area of the building (in this case excluding exterior spaces) should not be more than 80m². The family has a love for comfortable semi-outdoor living spaces (loggia /arcade /veranda /engawa) and purity in construction techniques. Housing Block In a hypothetical future, Budapest will have a social housing board that develops affordable yet comfortable high quality housing units. The starting idea for making these affordable is using building techniques that require little labour and having a high density of units. This does not mean that the plot should house as many dwellings as possible, but that it uses the potential of the plot to house as many as fit comfortably. It should take care of the standard considerations of a housing block, namely space optimization, daylight management, shared amenities. The project should also be a flagship project for a new type of social housing, what this entails is up to you. You will be given the choice between a few different in-fill plots. These are plots that have remained or became empty between two existing buildings. One of the main criteria is how well your building responds to or is integrated into its context. Next to the conceptual design tasks, Complex I is also meant to establish basic structural and building technology standards as well as model making and drawing techniques.	

RECOMMENDED LITERATURE	<u>Holiday home references:</u> - Vila Emo – Palladio - Lunuganga - Geoffrey Bawa - Marie Short House – Glenn Murcutt - Can Lis - Jørn Utzon Housing Block - Total Housing: Alternatives to Urban Sprawl by Albert Ferré - Floor Plan Manual Housing Lectures by practitioners: - https://www.youtube.com/@TheHarvardGSD Case Studies: - El Croquis Technical references: - Structural and Climatic design - Building Construction Illustrated by D. K. Ching - Detailing - detail practice books (check library for available topics) - Technical Drawing styles - architectural graphics by D.K.Ching Conceptual Drawing styles - El Croquis reference books
REQUIREMENTS TECHNICAL EQUIPMENT	Students are free to use any suitable software and media, if it fulfils the requirements and aims of the course. ArchiCAD, hand sketching and grey cardboard are recommended. AI can be used, unless more institution wide protocols are in place, which in that case should be adhered to. If a product is (even partly) produced by AI, it is required to note it clearly in or directly next to the work itself and provide a short, written explanation on the way it has been used, somewhere within the framework of the presentation.

SCHEDULE OF THE SEMESTER			
PHASE	WEEK	• = required products	LECTURES C2 Wednesday 10:45-12:25
HOLIDAY HOME	1. 9.09	<u>Introduction of the task</u>	Public building, concept and general theory
	2. 9.16	• Site plan + Site section • Building Volume + Schematic layout (based on the given references) • Idea on construction techniques	Genius Loci, the concept of place and fit
	3. 9.23	• Concept Design ◦ Floorplan, Elevations and section ◦ With openings (doors windows)	Function, programme and design phases
	4. 9.30	<u>Holiday home presentation</u> • Physical model 1:50 • Technical drawings 1:100 ◦ Distinguishing structure/ infill/ insulation finish ◦ Interior and exterior dimensions ◦ Correct hatching and line-styles	Materials and meanings, semantics
HOUSING BLOCK	5. 10.07	<u>Introduction of the task + Site visit</u>	
	6. 10.14	• Typology research ◦ Choose three reference projects based on their building volume and housing unit layout, these will act as your starting position. ◦ Draw an isometric view of these 3 references to scale (or physical model) ◦ Have at least one floorplan and section of each to (the same) scale ◦ Define the pros and cons of the projects • Idea on construction techniques (structure/building climate) • A physical site model 1:200	School, kindergarten, nursery, university
	7. 10.21	• Full design brief with approx. m2 per room • Schematic floorplans (zones layout) • Schematic section (zones in section) • Massing study 1:200 (to be placed in the site model)	Accommodations, catering, restaurants, industrial kitchen
	8. 10.28	• Concept Design ◦ Floorplan, Elevations and section ◦ With openings (doors windows)	Commercial buildings, markets
	9. 11.04	<u>Midterm presentation</u> • Concept Design 1:100 ◦ Floorplan, Elevations and section ◦ With openings (doors windows) • Volumetric physical model 1:200	Administrative buildings, office buildings
	10. 11.11	• Technical drawings 1:100 ◦ Floorplan, Elevations and section ◦ Material indication ◦ Distinguishing structure/ infill/ insulation finish ◦ Interior and exterior dimensions ◦ Correct hatching and line-styles	Cultural buildings, library museum, exhibition hall
	11. 11.18	• Technical drawings 1:100	Cultural buildings, theaters, concert halls, movie theaters, community centers
	12. 12.02	<u>Final presentation</u> • Technical drawings 1:100 • Physical model 1:200 • 3d-renders	Sports and transport buildings
	13. 12.09		Sacred buildings, Christian churches
REPAIR	13. 12.09		Sacred buildings, Christian churches

REQUIREMENTS FOR THE COMPLETION OF THE SEMESTER	
MID-SEMESTER TASKS AND TESTS	
REQUIREMENT	DESCRIPTION
PARTICIPATION AT LESSONS	The effects of and exact regulations regarding absence are governed by university standards. It is expected and an obligation of students to be aware of these standards. Most relevant in this regard are § 46 and § 48 of the ETVSZ Attendance will be checked at the start of the class, being late will count as being absent up to the discrepancy of the lecturer. During the lessons the use of a phone is prohibited, unless mentioned otherwise. It is up to the discrepancy of the lecturer to determine a penalty for not complying to this rule. Important: Without the presentation of the required material during consultation a student will be counted as having been absent.
IN CASE OF ABSENCE FROM LESSONS AND EXAMINATIONS	Note that all deliverables remain requirements even in the case of absence. It is the responsibility of the student to bring the deliverables forward, if necessary, in subsequent consultations. Falling behind on products by more than one week could result in failing the semester, which is up to the discretion of the instructor
HOLIDAY HOME- / MIDTERM PRESENTATION	Qualitative requirements: - Persuasive presentation - Argumentative design decisions For quantitative requirements: See schedule of the semester
FINAL PRESENTATION	Qualitative requirements: - a coherent design - a planned design process - sensible relation to the local context - a personal conceptual design - a sensibility towards contemporary topics and trends - sensible use of physical working models - communicative drawings - coherent facades - coherent interior and exterior materials - participation within the group - sensible indoor climate scheme - sensible structural scheme - coherent integration of building technology For quantitative requirements: See schedule of the semester

SEMESTER CLOSING REQUIREMENTS					
CONDITIONS FOR OBTAINING A SIGNATURE	Attending, delivering deliverables and cooperating throughout the semester. Accomplishing presentations with the necessary deliverables up to the required standards and submitting the presented design proposal in one single (300 dpi, smaller than 60mb) pdf file before the presentation, including pictures of the physical models. Products need to be uploaded to Moodle, unless otherwise specified by the instructor The signature can be replaced as part of the Signature Replacement Exam on one of the first 10 days of the exam period, which will be announced in Neptun. In this, one of the pages of the plan submitted in full and on time can be corrected, or if the delay has occurred due to an administrative obstacle accepted by the instructor, e.g. if charging is blocked. This exam is subject to a fee.				
SEMESTER GRADE	1 - FAIL	2 - PASS	3 - SATISFACTORY	4 - GOOD	5 - EXCELLENT