

# COMPLEX SPECIALISATION: ARCHITECTURE

## 2023/24. 1. SEMESTER

BASIC INFORMATION			
COURSE NAME	Complex Specialisation / Architecture		Komplex specializáció / (belső)építész szakirány
COURSE CODE(S)	YAWCSPAMNF		
DEPARTMENT	Óbuda University, Ybl Miklós Faculty of Architecture, Institute of Architecture		
PROGRAMME, TRAINING	Architect MSc		full time
COURSE INSTRUCTOR (Instructor managing the course)	Prof. Gyula Gábor Kiss DLA	kiss.gyula@ybl.uni-obuda.hu	
INSTRUCTORS, LECTURERS	Ian Chaplin	chaplin.ian@ybl.uni-obuda.hu	
PRE-REQUIREMENT	-		
HOURS OF LECTURES (WEEKLY)	½ "hour"		
HOURS OF CLASSROOM TRAINING/ LABORATORY TRAINING (WEEKLY)	5 ½ "hours"		
FIELD WORK AND TRAINING (WEEKLY)	0 hours		
ASSIGNMENT	Weekly deliverables, midterm presentation, final presentation		
CREDITS	10 credits (ECTS)		
AIM OF THE COURSE, BRIEF DESCRIPTION	<p><u>Aim of the Course</u> The main aim of the course is to prepare students for their graduation project on a technical, architectural and procedural level. In order to do so the course will focus on how you can:</p> <ul style="list-style-type: none"> <li>- develop a coherent design</li> <li>- plan the design process</li> <li>- relate to the local context</li> <li>- take a personal position through a conceptual design approach</li> <li>- relate to contemporary topics and trends and make informed decisions</li> <li>- use a physical working model</li> <li>- make communicative drawings</li> <li>- develop facades</li> <li>- apply interior and exterior materials</li> <li>- work together</li> <li>- develop an indoor climate scheme</li> <li>- develop a structural scheme</li> <li>- develop a design into detail</li> </ul> <p><u>Brief Description</u> The "old school/ new school" project is the design-challenge of an educational building for children (Nursery/Primary school) in 2023. It is for a freestanding school with a GFO of about 600-1500 m2 placed on a hilly site of about 2000-4000 m2 and a forest school (a small pavilion that supports extracurricular activities in the local forest). The focus is on sustainability, inclusion and beauty. Next to the design, students will have to develop and decide on a school system for the children from the perspective of parents who share these values.</p> <ul style="list-style-type: none"> <li>- Students will work in groups of 5-8 people to develop an innovative design-approach for this building type for the context.</li> <li>- The design will be developed in groups of two (which if preferred can be split up after the midterm presentation).</li> <li>- In the process, the students will need to participate in the design of others and think beyond disciplinary borders.</li> <li>- The buildings will need to be made of mass-timber or an even more sustainable construction type.</li> </ul>		

<p><b>RECOMMENDED LITERATURE &amp; REFERENCES</b></p>	<p>Literature:</p> <ul style="list-style-type: none"> <li>- Baum, M. and Christiaanse, K. (2012) <i>City as loft adaptive reuse as a resource for Sustainable Urban Development</i>. Zürich: gta Verl.</li> <li>- Koolhaas, R. et al. (1995) <i>S, M, L, XL: *small, medium, large, extra-large</i>. New York: The Monacelli Press.</li> <li>- Lagae, J. (2007) <i>Oase: Back to school</i>. Rotterdam: NAI Uitgevers / Publishers.</li> <li>- Clark, R.H. and Pause, M. (2012) <i>Precedents in architecture: Analytic diagrams, formative ideas, and Partis</i>. Hoboken, NJ: John Wiley &amp; Sons.</li> </ul> <p>Reference Projects:</p> <ul style="list-style-type: none"> <li>- Old School - <a href="#">Montessori Delft</a>, Netherlands by Herman Hertzberger</li> <li>- Old School - <a href="#">First Open Air School</a> Amsterdam by Jan Duiker</li> <li>- New School - <a href="#">Vizafogó Kindergarten</a> in Budapest, Hungary by Archikon architects</li> <li>- New School - <a href="#">Fairy Tale Kindergarten</a> in Budapest, Hungary by Archikon architects</li> <li>- New School - <a href="#">Zöldike Nursery</a> in Budapest, Hungary by Archikon architects</li> <li>- New School - <a href="#">Reggio School</a> by Office for political innovation</li> <li>- New School - <a href="#">Children's Center for Rehabilitation</a> in Hokkaido, Japan by Sou Fujimoto</li> <li>- New School - <a href="#">Atago Nursery</a> in Nagasaki Japan by Kei Sasaki + Intermedia</li> <li>- New School - <a href="#">Family Club Nursery</a> in London England by Kennedy Woods</li> <li>- New School - <a href="#">Yamaikarashi Nursery School</a> in Niigata Japan by Takeru Shoji Architects</li> <li>- New School - <a href="#">HN Nursery</a> in Kanagawa Japan by HIBINOSEKKEI + Youji no Shiro</li> <li>- New School - <a href="#">Yamasato Nursery School</a> in Aichi Japan by Maki Yoshimura</li> <li>- New School - <a href="#">Hakusui Nursery School</a> in Chiba Japan by Yamazaki Kentaro</li> <li>- New School - <a href="#">Leimond-Shonaka Nursery School</a> in Owariasahi Japan by Archivision</li> <li>- New School - <a href="#">Mokumoku Kindergarten</a> in Tokyo Japan by 16A Inc.</li> <li>- New School - <a href="#">"small pond" Nursery</a> in Setagaya Japan by Naf Architect &amp; Design</li> <li>- New School - <a href="#">Kobato Nursery School</a> in Kashiwa Japan by so1architect</li> <li>- New School - <a href="#">Public Nursery</a> in Glyfada Greece by KLab architecture</li> <li>- School Type - <a href="#">Forest School concept</a> example 1</li> <li>- School Type - <a href="#">The green free school</a> Denmark</li> <li>- School Yard - <a href="#">Nursery</a>, Stoke on Trent, UK by Feilden Clegg Bradley Studios</li> <li>- Classroom - <a href="#">Classroom of the future</a>, by Stefano Boeri</li> <li>- Playground - <a href="#">Wikado playground</a> by superuse studio</li> <li>- Form - <a href="#">Wooden House</a> - in Kumamoto, Japan by Sou Fujimoto</li> <li>- Form - <a href="#">Double helix House</a> in Taito Japan by onishimaki+hyakudayuki</li> <li>- Form - <a href="#">Lochal</a>, Tilburg, The Netherlands by CIVIC and Mecanoo</li> <li>- Model - <a href="#">Weekend House</a> in Sengataki Japan by onishimaki+hyakudayuki</li> <li>- Timber - <a href="#">good-job-center</a> in kashiba Japan by onishimaki+hyakudayuki</li> </ul> <p>Technical references:</p> <ul style="list-style-type: none"> <li>- Structural and Climatic design - Building Construction Illustrated by D. K. Ching</li> <li>- Detailing - <a href="#">detail practice books</a> (check library for available topics)</li> <li>- Technical Drawing styles - architectural graphics by D.K.Ching</li> <li>- Conceptual Drawing styles - El Croquis reference books</li> <li>- Mass Timber - <a href="#">Open source lectures</a></li> <li>- Mass Timber - <a href="#">Design Manual</a></li> <li>- Mass Timber - <a href="#">100 Mass timber projects</a></li> <li>- Mass Timber - <a href="#">Connections details</a></li> <li>- Mass Timber - <a href="#">Supplier info</a></li> <li>- Architecture - <a href="#">Spatial Agency</a></li> <li>- Educational - <a href="#">Build environment education network</a></li> </ul> <p>Sources:</p> <ul style="list-style-type: none"> <li>- Model Making - <a href="#">Panton Stores</a></li> </ul>
	<p><b>REQUIRED TECHNICAL APPLIANCES/ SOFTWARE</b></p>

SCHEDULE OF THE SEMESTER		
WEEK	FORM OF PRACTICE	PROGRAM OF PRACTICE
1. 12/13 Sept	Group Consultation Workshop	<ul style="list-style-type: none"> <li>● = has to be finished before class (deliverables)</li> <li>● = Topics handled during class</li> <li>● Course Kick-off</li> <li>● Making of Teams</li> <li>● Site Visit</li> <li>● Photo Catalogue</li> <li>● Site Analysis</li> <li>● Schooling 2023</li> <li>● Topic_Form_Model Making</li> </ul>
2. 19/20 Sept	Group Consultation Workshop	<ul style="list-style-type: none"> <li>● Site drawings gr.</li> <li>● Physical Site Model gr.</li> <li>● Photo Catalogue gr.</li> <li>● Site Analysis (morphology+infrastructure) gr.</li> <li>● Schooling 2023</li> <li>● Form studies</li> <li>● Inclusivity</li> <li>● Educational Concepts</li> <li>● Topic_Form_Diversity</li> </ul>
3. 26/27 Sept	Group Consultation Workshop	<ul style="list-style-type: none"> <li>● 3 Physical form-studies based on m3 p.sub.</li> <li>● School Concept (moodboard + education method) p.sub</li> <li>● Site Concept (moodboard + 3 scheme variations ) p.sub</li> <li>● Classroom concepts</li> <li>● In-between Spaces</li> <li>● Coloured Movement Sketches</li> <li>● Topic_Form_Storytelling &amp; Conceptual Design</li> </ul>
4. 03/04 Okt	Group Consultation Workshop	<ul style="list-style-type: none"> <li>● a Classroom Concept p.sub</li> <li>● 3 Classroom layouts p. sub.</li> <li>● In-between Spaces Concept (moodb.+arch. furn.) p.sub</li> <li>● A Physical Form Intervention on 1 Form study p.sub</li> <li>● Storytelling concept p.sub</li> <li>● Furniture Design</li> <li>● School Grounds</li> <li>● Forest School</li> <li>● Topic_Form_Phenomenology &amp; Metaphysics</li> </ul>
5. 10/11 Okt	Group Consultation Workshop	<ul style="list-style-type: none"> <li>● Forest School Concept gr.</li> <li>● Forest School Individual Furniture gr.</li> <li>● Forest School Surrounding gr.</li> <li>● Interior-Exterior Transitions</li> <li>● Project Brief</li> <li>● Topic_Form_Animation</li> </ul>
6. 17/18 Okt	Group Consultation Workshop	<ul style="list-style-type: none"> <li>● Project Brief (spaces + m2) p.sub</li> <li>● 3 Schematic Floorplans with site layout p.sub.</li> <li>● School grounds p.sub</li> <li>● Topic_Form_Order</li> </ul>
7. 24/25 Okt	<b>Midterm Presentation</b>	<ul style="list-style-type: none"> <li>● Project Presentation [emphasis on sustainability, inclusivity and beauty] p.sub</li> <li>● Design drawings [1:100 floor plans, elevations, sections, site plan, school grounds] p.sub</li> <li>● Project plan for the second half of the course p.sub</li> </ul>
8. 31 Okt	Group Consultation Workshop	<p><b>After the midterm presentation all products are per subgroup</b></p> <ul style="list-style-type: none"> <li>● Floorplans</li> <li>● Structural Scheme</li> <li>● Material Moodboard</li> <li>● Structural Connection Details</li> <li>● Facades</li> <li>● Layering systems</li> <li>● Climate Control</li> <li>● Topic_Practical_Drawingstylesl</li> </ul>

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9. 07/08 Nov	Group Consultation Workshop	<ul style="list-style-type: none"> <li>● Floorplans</li> <li>● Facade Design with layering system</li> <li>● Elevation Drawings</li> <li>● Climate Control</li> <li>● Daylighting</li> <li>● Architectural Details</li> <li>● Topic_Practical_Construction methods</li> </ul>
10. 14/15 Nov	Group Consultation Workshop	<ul style="list-style-type: none"> <li>● Floorplans + Section with layering system</li> <li>● Elevations</li> <li>● 3 Architectural Details</li> <li>● Interior design</li> <li>● Topic_Practical_Materialisation</li> </ul>
11. 24 Nov	Group Consultation Workshop	<ul style="list-style-type: none"> <li>● all Previous Deliverables updated</li> <li>● Interior Design Moodboard</li> <li>● Lighting Plan</li> <li>● Furniture Design</li> <li>● Topic_Practical_Climate Control</li> </ul>
12. 28/29 Nov	Group Consultation Workshop	<ul style="list-style-type: none"> <li>● all Previous Deliverables updated</li> <li>● Lighting Plan</li> <li>● Bespoke Furniture design</li> <li>● Site Design</li> <li>● Topic_Practical_Detailing</li> </ul>
13. 05/06 Dec	Group Consultation Workshop	<ul style="list-style-type: none"> <li>● all Previous Deliverables updated</li> <li>● Site Plan</li> <li>● Presentation Model</li> <li>● Topic_Practical_Presentation</li> </ul>
14. 12/13 Dec	<b><u>Final Presentation</u></b>	<ul style="list-style-type: none"> <li>● Concept presentation (including all relevant deliverables + personal additions)</li> <li>● 2 presentation renders</li> <li>● Physical Presentation model</li> <li>● Drawings: 1:100 floor plans, elevations, 2 sections, 1:20 partial section, 3 1:10 details) [All drawing are required to have the correct amount of detail especially in regards to layering, dimensions and annotation]</li> </ul>

REQUIREMENTS FOR THE COMPLETION OF THE SEMESTER		
MID-SEMESTER TASKS AND TESTS		
Requirement	Description	Value (points)
<b>PARTICIPATION AT LESSONS</b>	<p>Attendance will be checked at the start of the class, being late will count as being absent. Missing any class will have a negative impact on your grade unless provided with a medical certificate. [These should be provided through an e-mail to the instructor.] The responsibility to resolve the impact of the absence on your own or your group's performance will be taken into consideration in your final grade.</p> <p>The classes can be missed up to three times (see § 46 ETVSZ) Missing more than three classes will automatically result in failing the course. This includes absence for medical reasons.</p>	9pt
<b>IN CASE OF ABSENCE FROM LESSONS AND EXAMINATIONS</b>	<p>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.</p> <p>Note that it is the responsibility of the absentee to inform and provide products to other group members in a reasonable and timely fashion.</p>	-
<b>MIDTERM PRESENTATION</b>	<p>Qualitative requirements:</p> <ul style="list-style-type: none"> <li>- Performed research within a larger group</li> <li>- Present Designs convincingly</li> <li>- Argument design decisions</li> </ul> <p>Develop:</p> <ul style="list-style-type: none"> <li>- a shared (sub)urban vision in relation to the context and the property itself</li> <li>- a client sensitive program</li> <li>- an impressive project concept</li> <li>- a physical working model that supports the design process</li> <li>- Convincing plans with appropriate drawings</li> </ul> <p>For quantitative requirements: See schedule of the semester (2 previous pages)</p>	26pt
<b>FINAL PRESENTATION</b>	<p>Qualitative requirements:</p> <ul style="list-style-type: none"> <li>- a coherent design</li> <li>- a planned design process</li> <li>- sensible relation to the local context</li> <li>- a personal conceptual design</li> <li>- a sensibility towards contemporary topics and trends</li> <li>- sensible use of physical working models</li> <li>- communicative drawings</li> <li>- coherent facades</li> <li>- coherent interior and exterior materials</li> <li>- participation within the group</li> <li>- sensible indoor climate scheme</li> <li>- sensible structural scheme</li> <li>- coherent details</li> </ul> <p>For quantitative requirements: See schedule of the semester (2 previous pages)</p>	65pt
<b>TOTAL</b>		100 points

SEMESTER CLOSING REQUIREMENTS					
<b>CONDITIONS FOR OBTAINING A SIGNATURE</b>	Attending, delivering and cooperating throughout the semester. Accomplishing presentations with the deliverables and submitting the presented design proposal in one single (300 dpi, smaller than 60mb) pdf file in time, including pictures of the physical model.				
<b>SEMESTER GRADE</b>	0-59 Point	60-69	70-79	80-89	90-100
	1 - FAIL	2 - PASS	3 - SATISFACTORY	4 - GOOD	5 - EXCELLENT