

## Studio syllabi

### 1. Data on the study programme

1.1 Institution	Technical University of Cluj-Napoca
1.2 Faculty	of Architecture and Urban Planning
1.3 Department	<b>Urban Planning</b>
1.4 Domain	<b>Architecture</b>
1.5 University level	Licence and master's degree
1.6 Study programme/Qualification	Architecture
1.7 Form of studies	IF – on-site full-time studies
1.8 Course / studio code	<b>79.00</b>

### 2. Data on the course

2.1 Name of the course	<b>DESIGN SYNTHESIS STUDIO 4</b>				
2.2 Course/ Studio Head	<b>Associate professor Vlad Sebastian Rusu, Arch. PhD</b>				
2.3 Head of seminary/ laboratory/ studio	-				
2.4 Study year	<b>V</b>	2.5 Semester	<b>2</b>	2.6 Type of evaluation	<b>Colloquy</b>
2.7 Course /studio regime	Formative category: fundamental (DF)/ linked to the domain (DD)/ specific (DS)/ complementary (DC)				<b>DS</b>
	Compulsory (DI)/ Optional/ (DOP)/ Voluntary (DFac)				<b>DI</b>

### 3. Total estimated time

3.1 Number of hours/week	12	out of which:	3.2 Course	0	3.3 Seminary	0	3.3 Laboratory	0	3.3 Project	12
3.4 Number of hours/semester	168	out of which:	3.5 Course	0	3.6 Seminary	0	3.6 Laboratory	0	3.6 Project	168
3.7 Distribution of time (hours)/ semester for:										
(a) Individual study supported by course textbook, course text, bibliography, and notes										30
(b) Supplementary study in the library, online, and on site										40
(c) Preparation for seminars/ laboratories/ assignments, reports, portfolios, and essays										92
(d) Tutoring										-
(e) Examination										20
(f) Other activities										-
3.8 Total hours of individual study (sum (3.7(a)...3.7(f)))					<b>182</b>					
3.9 Total semestrial hours (3.4+3.8)					<b>350</b>					
3.10 Number of credits					<b>14</b>					

### 4. Preconditions (where applicable)

4.1 curriculum preconditions	-
4.2 competence preconditions	Reaching a level and a professional responsibility that ensures the development of complex architectural projects.

### 5. Conditions (where applicable)

5.1. for the course	-
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5.2. for the studio	The activity takes place physically in the fifth year studio. The presence of students is mandatory, according to the current ECTS Regulation. The project will be developed in groups by two students. The Microsoft Teams online platform is used for communication related to the workshop activity.
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## 6. Specific competencies

	<ul style="list-style-type: none"> <li>• Ability to act with knowledge of historical and cultural precedents in local and world architecture.</li> <li>• Understanding of heritage issues in the built environment.</li> <li>• Technical knowledge of structure, materials, and construction.</li> <li>• Awareness of the impact of geotechnical conditions on construction</li> <li>• Understanding of the impact of climate on urban and architectural design and construction.</li> <li>• Ability to act with innovative technical competence in the use of building techniques and the understanding of their evolution.</li> <li>• Understanding of the processes of technical design and the integration of structure, construction technologies and services systems into a functionally effective whole.</li> <li>• Understanding of services systems as well as systems of transportation, communication, maintenance, and safety.</li> <li>• Awareness of the role of technical documentation and specifications in design realisation, and of the processes of construction, cost, planning and control.</li> </ul>
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## 7. Objectives of the discipline

7.1 General objective of the discipline	<ul style="list-style-type: none"> <li>• Developing students' skills in the field of architectural design by developing urban and architectural solutions on a site located in the protection zone of historical monuments.</li> </ul>
7.2 Specific objectives	<ul style="list-style-type: none"> <li>• Development of a complex architectural project, conditional on the existence of an architectural and urban heritage.</li> <li>• Definition and presentation of an integrated architectural-urban concept.</li> <li>• Graphic presentation and public support of the project.</li> </ul>

## 8. Content/Syllabi

8.1 Course	No. of hours	Teaching methods	Notes
-			
8.2 Seminary / laboratory / project	No. of hours	Teaching methods	Notes
First semester	168	Exposure, applications, individual corrections, collective corrections, evaluation with public support of the projects.	-
Bibliography 1. Ernst Neufert, <i>Design and construction elements</i> , Alutus S.A., Miercurea Ciuc, 2004. 2. Gheorghe Vais, <i>Architectural Programs</i> , UT Press, Cluj-Napoca, 2008. 3. Adrian Iancu, Teodora Balan, Andrei Nejur, Vlad Rusu, Szende Szentesi, Smaranda Todoran, Calin Spanu, <i>Story of a project</i> , UT Press, Cluj-Napoca, 2012. 4. Architecture magazines existing in the Faculty Library: <i>El Croquis</i> , <i>The Architectural Review</i> , <i>Detail</i> etc.			

	Other titles: 5. Internet sources: Archdaily.com, Architizer.com, Divisare.com, etc.
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**9. Harmonizing the content of the discipline with the expectations of the epistemic community, the professional associations, and representative employers**

Students acquire the necessary skills and knowledge in the responsible exercise of the profession of architect, become familiar with the collective work process, practice the verbal and graphic expression of their own concepts and attitudes, become aware of the role and responsibility they acquire as the coordinator of some projects complex.

**10. Assessment**

Type of activity	10.1 Evaluation criteria	10.2 Assessment method	10.3 Calculation of final grade
	-	-	-
10.5 Seminary/Laboratory	<p>According to the design theme, the following criteria will be taken into account in evaluating the solutions:</p> <p><b>A. Satisfying architectural-urbanistic functional needs</b></p> <p><b>A1. The functional criterion</b> The proposed use scenarios, the solution of accesses and routes from an urban and architectural point of view will be scored.</p> <p><b>A2. The financial criterion</b> The rationality and sustainability of the spatial functional solution will be appreciated.</p> <p><b>A3. Quality and clarity of representation of ideas</b> The legibility and general expressiveness of the pieces presented will be appreciated, respectively the way in which they manage to express the qualities of the project.</p> <p><b>B. Added architectural-artistic value</b></p> <p><b>B1. The character and general atmosphere of the intervention</b> The general quality of the intervention, the proposed ambience, the specific</p>	<p>During the semester, there will be discussion that evaluate without marking important stages of the project:</p> <p><b>Discussion 1</b> Analysis and documentation / Site selection. Architectural and urban concept</p> <p><b>Discussion 2</b> Detailing the volume and architectural expression of the object</p> <p><b>Discussion 3</b> Interior scenography</p> <p><b>Discussion 4</b> Technical detail and structural diagram</p> <p><b>Final discussion</b> - with grading - Evaluation of the project.</p>	100%

	<p>design solutions that highlight the particularities of the site will be scored.</p> <p><b>B2. The architectural-historical criterion</b> The integration of the project in the area, the relationship with the existing built fund and the way in which the existing valuable elements are highlighted will be pointed out.</p> <p><b>B3. The architectural-innovative criterion</b> The way in which the architectural expression is adapted to the proposed program will be scored and the spatial innovation will be appreciated.</p>		
<b>10.6 Minimal standard for passing</b>			
• a grade of minimum 5			

Date :	Head of course	Title, Name, Surname	Signature
14.07.2023	Course	Associate professor Vlad Sebastian Rusu, Arch. PhD	
	Seminary/Lab	-	-

Date of validation by the Department Council: _____	Chief of Department Associate professor Vlad Sebastian Rusu, Arch. PhD
Data of approval in the Faculty Council: _____	Dean Associate professor Dragoş Şerban Ion Ţigănaş, Arch. PhD