

Course/studio syllabi

1. Data on the study programme

1.1 Institution	Technical University of Cluj-Napoca
1.2 Faculty	Architecture and Urban Planning
1.3 Department	Urban Planning and Technical Sciences
1.4 Domain	Architecture
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	59.00

2. Data on the course

2.1 Name of the course	RESTORATION OF HISTORIC BUILDINGS		
2.2 Course/ Studio Head	Assistant Professor Andreea Paraschiva MILEA		
2.3 Head of seminary/ laboratory/ studio	-		
2.4 Study year	4	2.5 Semester	2
		2.6 Type of evaluation	exam
2.7 Course /studio regime	Formative category: fundamental (DF)/ linked to the domain (DD)/ specific (DS)/ complementary (DC)		DF
	Compulsory (DI)/ Optional/ (DOp)/ Voluntary (DFac)		DI

3. Total estimated time

3.1 Number of hours/week	2	out of which:	3.2 Course	2	3.3 Seminary	-	3.3 Laboratory	-	3.3 Project	-
3.4 Number of hours/semester	50	out of which:	3.5 Course	28	3.6 Seminary	-	3.6 Laboratory	-	3.6 Project	-
3.7 Distribution of time (hours)/ semester for:										
(a) Individual study supported by course textbook, course text, bibliography, and notes										6
(b) Supplementary study in the library, online, and on site										7
(c) Preparation for seminars/ laboratories/ assignments, reports, portfolios, and essays										7
(d) Tutoring										2
(e) Examination										-
(f) Other activities										-
3.8 Total hours of individual study (sum (3.7(a)...3.7(f)))										22
3.9 Total semestrial hours (3.4+3.8)										50
3.10 Number of credits										2

4. Preconditions (where applicable)

4.1 curriculum preconditions	-
4.2 competence preconditions	Competences acquired by completing the compulsory courses of: <i>History of architecture (the antiquity, the middle ages, the renaissance, the baroque, the XIX century, modern and contemporary periods)</i> , <i>Art history</i> , and <i>History of Romanian architecture</i> might form a basis for a good understanding of the concepts discussed in the <i>Restoration of historic buildings</i> course.

5. Conditions (where applicable)

5.1. for the course	On site , as scheduled. For sharing information and
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	documents, the Teams platform will be used, where the page of the discipline will be created within the IV th study year team. Attending the lecture is mandatory at a rate of 50% , by decision of the FAU Council and in accordance with the TUCN ECTS Regulation. Students who do not meet the mandatory attendance at the end of the semester, will not be evaluated in any of the sessions of the current academic year, and the discipline will be re-contractable in a subsequent academic year.
5.2. for the seminary	-

6. Specific competencies

DESIGN	<ul style="list-style-type: none"> • Ability to gather information, define problems, apply analyses and critical judgement, and formulate strategies for action • Ability to reconcile divergent factors, integrate knowledge and apply skills in the creation of a design solution
KNOWLEDGE	<ul style="list-style-type: none"> • Ability to act with knowledge of historical and cultural precedents in local and world architecture • Ability to act with knowledge of the fine arts as an influence on the quality of architectural design • Understanding of heritage issues in the built environment • Awareness of the links between architecture and other creative disciplines • Technical knowledge of structure, materials, and construction • Awareness of the impact of geotechnical conditions on construction • Understanding of the impact of climate on urban and architectural design and construction • Knowledge and experimentation of design theory and methods • Knowledge of design precedents and architectural criticism • Understanding of the leadership role of architects in the creation of the built environment
SKILLS	<ul style="list-style-type: none"> • Ability to act and to communicate ideas through collaboration, speaking, numeracy, writing, drawing, modelling and evaluation

7. Objectives of the discipline

7.1 General objective of the discipline	<ul style="list-style-type: none"> • Awareness of the importance of protecting and valorising monuments, along with knowledge of aspects related to their restoration.
7.2 Specific objectives	<ul style="list-style-type: none"> • Ability to create architectural designs that satisfy both aesthetic and technical requirements • Adequate knowledge of the history and theories of architecture and the related arts, technologies, and human sciences • Knowledge of the fine arts as an influence on the quality of architectural design • Adequate knowledge of urban design, planning and the skills involved in the planning process • Understanding of the relationship between people and buildings, and between buildings and their environment, and of the need to relate buildings and the spaces between them to human needs and scale

	<ul style="list-style-type: none"> • Understanding of the structural design, construction and engineering problems associated with building design • Adequate knowledge of physical problems and technologies and of the function of buildings so as to provide them with internal conditions of comfort and protection against the climate • Understanding of professional and disciplinary responsibilities toward human, social, cultural, urban, architectural, and environmental values as well as architectural heritage --including the health, safety, and welfare of the public; and the physiological and psychological aspects of public health and well-being. These responsibilities also include a commitment to equity, diversity, and inclusivity in both the content and the context of architectural instruction • Knowledge of the means of achieving ecologically responsible design, environmental conservation, and rehabilitation • Ability to demonstrate a creative competence in building techniques, founded on a comprehensive understanding of the disciplines and construction methods related to architecture
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8. Content/Syllabi

8.1 Course	No. of hours	Teaching methods	Notes
C1 introductory notions	2	Lectures accompanied by projections. Common discussions of theoretical aspects, examples and individual studies.	Students are encouraged to participate in the discussion of topics comparable to those that will be addressed in the exam.
C2 the notion of "monument", and its evolution	2		
C3 the notion of "restoration", and its evolution	2		
C4 environmental aggression on monuments	2		
C5 human aggression on monuments	2		
C6 research related to restoration work	2		
C7 categories of restoration work: part I	2		
C8 categories of restoration work: part II	2		
C9 historical construction systems and building materials: part I	2		
C10 historical construction systems and building materials: part II	2		
C11 historical construction systems and building materials: part III	2		
C12 historical construction systems and building materials: part IV	2		
C13 urban space restoration	2		
C14 historical gardens restoration	2		
NOTE: continuous updating of the material may lead to minor changes in content or ordering.			
REQUIRED BIBLIOGRAPHY:			
Course support: delivered to students in digital format throughout the semester.			
RECOMMENDED BIBLIOGRAPHY:			
Titles in UTCN Library:			
ALLAN, John: <i>Revaluing Modern Architecture: changing conservation culture</i> (London: RIBA Publishing, 2022) no. 564.588 (1 specimen)			
ASHURST, John: <i>Conservation of ruins</i> (Burlington MA: Butterworth-Heinemann, 2007) no. 531.055 (1 specimen)			
ASHURST, John, ASHURST, Nicola: <i>Practical building conservation: English heritage technical handbook</i> (Aldershot, Hampshire, England: Ashgate, 2005) Vol. 1: <i>Stone masonry</i> , no. 519.648/1 (1 specimen);			

Vol. 2: *Brick, terracotta and earth*, no. 519.648/2 (1 specimen); Vol. 3: *Mortars, plasters and renders*, no. 519.648/3 (1 specimen); Vol. 4: *Metals*, no. 519.648/4 (1 specimen); Vol. 5: *Wood, glass and resins and technical bibliography*, no. 519.648/5 (1 specimen)

CHOAY, Françoise: *Alegoria patrimoniului* (București: Simetria, 1998) no. 493.152 (10 specimens)

CURINSCHI VORONA, Gheorge: *Arhitectură Urbanism Restaurare* (București: Editura Tehnică, 1996) no. 485.859 (3 specimens)

POP, Virgil: *Istoria conservării* (Cluj-Napoca: U.T.Press, 2002) no. 508.943 (10 specimens)

Other titles:

HÜLSEMANN, Jan: *Casa țărănească săsească din Transilvania. Ghid pentru restaurarea caselor vechi* (Sibiu: Simetria, 2014)

RATOIU, Lucian Cristian, *Restaurarea monumentelor istorice* (București: Asociația Art Conservation Support, 2021)

Caietele restaurării (colecția 2013-2023)

Transsylvania Nostra (colecția 2007-2023)

8.2 Seminary / laboratory / project	No. of hours	Teaching methods	Notes
-	-	-	-
Bibliography			

9. Harmonizing the content of the discipline with the expectations of the epistemic community, the professional associations, and representative employers

The competencies achieved across the course contribute to the consolidation of the professional culture necessary for the profession and to the integrated use of theory and practice.

10. Assessment

Type of activity	10.1 Evaluation criteria	10.2 Assessment method	10.3 Calculation of final grade
10.4 Course	-	-	1 point by default
	The relevance and quality of the individual study	In the first meeting, the brief of the individual study will be stated, which can be developed throughout the semester and transmitted in digital format one day before the date of the exam *the subject of the individual study will be established and announced until the last day of teaching activity in the semester, respectively until the eve of any of the arrears and consultation sessions	7 points at most of which 6 points will concern the content and 1 point will concern the drafting (quality of writing, graphic quality, critical apparatus)
	The relevance and quality of the oral discussion	Oral discussion about theoretical topics approached in the individual study	2 points at most
	Calculation of the final grade: the sum of the points obtained through the evaluation methods described above.		
Submitting the individual study and attending the exam are conditions for			

	obtaining of a grade, respectively for the conclusion of the situation in this discipline.		
10.5 Seminary / Laboratory	-	-	-
10.6 Minimal standard for passing			
Accumulation of 5 points.			

Date :	Head of course	Title, Name, Surname	Signature
14.07.2023	Course	Assoc. Prof. PhD arch. Andreea Paraschiva Milea	
	Seminary/Lab	-	-

Date of validation by the Department Council: _____	Chief of Department Assoc. Prof. PhD arch. Virgil POP
Data of approval in the Faculty Council: _____	Dean Assoc. Prof. PhD arch. Dragoş Şerban Ion ȚIGĂNAŞ