

SYLLABUS

1. Data about the program of study

1.1	Institution	The Technical University of Cluj-Napoca
1.2	Faculty	Faculty of Civil Engineering
1.3	Department	Buildings and Management
1.4	Field of study	Civil Engineering
1.5	Cycle of study	Bachelor of Science
1.6	Program of study/Qualification	Civil, Industrial and Agricultural Buildings /Engineer (English language)
1.7	Form of education	Full time
1.8	Subject code	16.0

2. Data about the subject

2.1	Subject name				Elemente de arhitectura si sistematizare										
2.2	Course responsible/lecturer				Conf.Dr.Arh. Moldovan Ioana Madalina-Ioana.MURESANU@ccm.utcluj.ro										
2.3	Teachers in charge of seminars														
2.4	Year of study		1	2.5	Semester		2	2.6	Assessment		C	2.7	Subject category		DID/DI

3. Estimated total time

3.1	Number of hours per week	1	3.2	of which, course:	1	3.3	applications:	
3.4	Total hours in the curriculum	14	3.5	of which, course:	14	3.6	applications:	
Individual study								hours
Manual, lecture material and notes, bibliography								28
Supplementary study in the library, online and in the field								7
Preparation for seminars/laboratory works, homework, reports, portfolios, essays								0
Tutoring								0
Exams and tests								1
Other activities								0
3.7	Total hours of individual study			36				
3.8	Total hours per semester			50				
3.9	Number of credit points			2				

4. Pre-requisites (where appropriate)

4.1	Curriculum	Curriculum
4.2	Competence	Competence

5. Requirements (where appropriate)

5.1	For the course	For the course
5.2	For the applications	For the applications

6. Specific competences

Professional competences	<p>Recognition of the elements and structures of civil engineering constructions specific to the graduate study program.</p> <p>Recognizing and understanding of the basic concepts, theories and methods of the field and area of specialization; their proper use in professional communication.</p> <p>Identification of the structural and functional role of the elements of an industrial and agricultural civil construction.</p> <p>Use of basic knowledge for explaining and interpreting various types of concepts, situations, projects, associated with the field of study.</p> <p>Explanation of the constructive composition of the different categories of civil, industrial and agricultural constructions.</p> <p>Assessment of the quality of a civil, industrial and agricultural construction using evaluation criteria specific to the field of study.</p>
Cross competences	<p>Awareness of the need for lifelong learning; efficient use of learning resources and techniques for personal and professional development.</p> <p>Documentation in Romanian and in a foreign language, for professional and personal development, through continuous training and efficient adaptation to new technical specifications.</p>

7. Discipline objectives (as results from the *key competences gained*)

7.1	General objective	General objective
7.2	Specific objectives	Specific objectives

8. Contents

8.1. Lecture (syllabus)	Teaching methods	Notes
1. INTRODUCTION IN ARCHITECTURE AND URBAN PLANNING. Object and problems.	-	-
2. PREHISTORY AND EARLY HISTORY. ANTIQUITY AND EARLY CRISTIANITY. (Ex. structures: Pantheon – Rome, Hagia Sofia – Istanbul).		
3. ROMANESQUE (Ex. structures: Tower of Pisa). GOTHIC (Ex. structures: pointed arch, buttress, flying buttress, ribbed vaults, perpendicular vaults, fan vaults). RENAISSANCE (Ex. structures: Dome of Florence).		
4. BAROQUE (Ex.: Dynamism in art and architecture, Urban planning – Paris; Ex. structure: Dôme des Invalides - Paris). NEOCLASSICISM (Ex. structure: St. Paul – London). 19TH CENTURY (Ex. structures: Eiffel Tower– Paris)		
20TH CENTURY, BEFORE 1945 (Ex. structures: skyscrapers). ARCHITECTURE AFTER 1945 (Ex. structures: Sydney Opera House, WTC Towers – New York).		
EVOLUTION OF CITIES		
<p>Bibliography</p> <p>In UTC-N library</p> <p>1. IANCU Adrian - Elemente de arhitectura si urbanism, Ed. U.T.Press., Cluj-Napoca, 2002, ISBN 973-8335-26-4</p> <p>2.MELVIN Jeremy - ...isme: să înțelegem stilurile arhitecturale, Ed. RAO, București, 2006, ISBN 973-717-075-0</p>		

<p>3. LAZARESCU Cezar - Arhitectura și viața orașelor, București, 1996, ISBN 973-31-0651-8</p> <p>4. VOITEC-DORDEA Mira - Renaștere, Baroc și Rococo în arhitectura universală, București, 1994, ISBN 973-30-2932-7,</p> <p>5. TALU D.L. Ștefan - Stiluri arhitecturale, Cluj-Napoca, 2009,ISBN 978-973-1868-72-1.</p> <p>In other libraries</p> <p>1.TACHEN - Architectural Theory . From Renaissance to the Present, Köln, 2006, ISBN 3-8228-5085-3,</p> <p>2. BORDEN Daniel - Arhitectura - o istorie vizuală, Ed. Litera Internațional, 2009, ISBN 978-973-675-464-7,</p> <p>3.GLANCEY Jonathan – The Story of Architecture, Ed. Dorling Kinderslez Book, Londra 2000, ISBN 978-0-7513-4881-1,</p> <p>4. The Phaidon Atlas of Contemporary World Architecture, Ed. Phaidon Press, Londra, 2004, ISBN 9780714843124</p> <p>5. Phaidon Atlas of 21st Century World Architecture, Ed. Phaidon Press, Londra, 2008 ISBN 9780714848747</p>		
8.2. Applications/Seminars		
N/A		
Bibliography: N/A		
Bibliography		
8.2. Applications/Seminars	Teaching methods	Notes
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Bibliography		

9. Bridging course contents with the expectations of the representatives of the community, professional associations and employers in the field

The course provides an initial basis, needed to strengthen the relationship between engineer - other specializations in the field (especially engineer - architect), as well as general knowledge and specialized language.

10. Evaluation

Activity type	10.1 Assessment criteria	10.2 Assessment methods	10.3 Weight in the final grade
10.4 Course	Answers for 30 questions (questions and quiz questions)	Written Test	Written Test
10.5 Applications	N/A	N/A	N/A
10.6 Minimum standard of performance			
Correct answer for 12 out of 30 questions			

Date of filling in:		Title Surname Name	Signature
	Lecturer	Conf.Dr.Arh. Moldovan Ioana Madalina	
	Teachers in charge of application		

Date of approval in the department	Head of department conf.dr.ing. Caludiu ACIU
20/06/2025	
Date of approval in the faculty	Dean prof.dr.ing Daniela MANEA
25/06/2025	