



## FISA DISCIPLINEI

### 1. Date despre program

1.1	Instituția de învățământ superior	Technical University of Cluj-Napoca
1.2	Facultatea	Civil Engineering
1.3	Departamentul	Civil Engineering and Management
1.4	Domeniul de studii	Civil Engineering
1.5	Ciclul de studii	License (Bachelor)
1.6	Programul de studii/Calificarea	Civil Engineering
1.7	Forma de învățământ	IF – full time education
1.8	Codul disciplinei	14.00

### 2. Date despre disciplina

2.1	Denumirea disciplinei		Elements of architecture and systematization								
2.2	Aria tematica (subject area)		Civil Engineering / Architecture / Urban Planning								
2.3	Responsabil de curs		Ș.l.dr.arh. Ioana Mădălina MOLDOVAN								
2.4	Titularul disciplinei		Ș.l.dr.arh. Ioana Mădălina MOLDOVAN								
2.5	Anul de studii	1	2.6	Semestrul	2	2.7	Evaluarea	Colocviu	2.8	Regimul disciplinei	DD/ DI

### 3. Timpul total estimat

An/ Sem	Denumirea disciplinei	Nr. sapt.	Curs			Aplicații			Stud. Ind.	TOTAL	Credit
			[ore/săpt.]			[ore/sem.]					
				S	L	P		S			
II	Elements of architecture	14	1			14			22	50	2

3.1	Număr de ore pe săptămână	2	3.2	din care curs	2	3.3	aplicații	0
3.4	Total ore din planul de inv.	28	3.5	din care curs	28	3.6	aplicații	0
Studiul individual								Ore
Studiul după manual, suport de curs, bibliografie și notițe								14
Documentare suplimentară în bibliotecă, pe platformele electronice și pe teren								4
Pregătire seminarii/laboratoare, teme, referate, portofolii, eseuri								-
Tutoriat								2
Examinări								2
Alte activități								-
3.7	Total ore studiul individual			22				
3.8	Total ore pe semestru			50				
3.9	Număr de credite			2				

### 4. Precondiții (acolo unde este cazul)

4.1	De curriculum	Does not apply
4.2	De competente	Does not apply

### 5. Condiții (acolo unde este cazul)

5.1	De desfășurare a cursului	Cluj-Napoca, Str. Barițiu nr. 25
5.2	De desfășurare a aplicațiilor	Does not apply

## 6 Competențe specifice acumulate

Competențe profesionale	Cunoștințe teoretice, (Ce trebuie să cunoască)	After following the course, the students will be able to: - understand the influences of cultures and traditions which have generated practical and aesthetic changes in architecture and urban planning; - comprehend the physical conditions and the purpose for which a building is constructed and a city evolves; - understand and recognize some of the main architectural styles, as well as the concepts and material and social conditions that generated them; - recognize the elements and structures of the constructions from the civil engineering field, specific to the graduated program.
	Deprinderi dobândite: (Ce știe să facă)	After following the course, the students will be able to: - understand the aesthetic peculiarities used by architects in order to solve practical problems, but also to express ideas; - recognize the differences between categories and types of architecture; - distinguish the specific construction techniques and innovations of each period. - recognize construction techniques and identify the structural and architectural elements that are most suitable for varied design solutions, specific to each period; - identify the role of structural and functional elements of civil, industrial and agricultural buildings; - explain the constructive composition of different categories of civil, industrial and agricultural buildings.
	Abilități dobândite: (Ce instrumente știe să mănuiască)	
Competențe transversale		

## 7 Obiectivele disciplinei (reieșind din grila competențelor specifice acumulate)

7.1	The overall objective of the discipline	Development of skills in the civil engineering branch, both in terms of engineering and architectural aspects, supporting professional training.
7.2	The specific objectives	1. Assimilation of theoretical knowledge on construction progress and urban planning throughout history, as well as structural and architectural innovations. 2. The ability to recognize structural and architectural elements and their role in construction

## 8. Conținuturi

8.1. Curs (programa analitică)		Metode de predare	Observații
1	INTRODUCTION IN ARCHITECTURE AND SYSTEMATIZATION (URBAN PLANNING). Object and problems.	Lecture	Projector
2	PREHISTORY AND EARLY HISTORY. ANTIQUITY AND EARLY CHRISTIANITY (Ex. structures: Panteon – Roma, 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: Eiffel Tower– Paris)		
4	BAROQUE (Dynamism in art and architecture, Urban planning – Paris;		

	Ex. structures: Domme des Invalides - Paris). NEOCLASSICISM (Ex. structures: St. Paul – London). 19 <sup>TH</sup> CENTURY (Ex. structures: Eiffel Tower – Paris).		
5	20 <sup>TH</sup> CENTURY, BEFORE 1945 (Ex. structures: Skyscrapers). ARCHITECTURE AFTER 1945 (Ex. structures: Sydney Opera House, WTC Towers – New York).		
6	ARHITECTURA SECOLULUI AL XXI-lea. Contemporary built examples. Proposed Projects (Ex. structures: Taipei 101 – Taipei, Burj Khalifa – Dubai).		
7	THE EVOLUTION OF CITIES		
8.2. Aplicații (seminar/lucrări/proiect)		Metode de predare	Observații
Does not apply			
Bibliografie			
<b>In biblioteca UTC-N</b>			
1. IANCU Adrian - Elemente de arhitectura si urbanism, Ed. U.T.Press., Cluj-Napoca, 2002, ISBN 973-8335-26-4			
2. MELVIN Jeremy - ...isme: să înțelegem stilurile arhitecturale, Ed. RAO, București, 2006, ISBN 973-717-075-0			
3. LAZARESCU Cezar - Arhitectura și viața orașelor, București, 1996, ISBN 973-31-0651-8			
4. VOITEC-DORDEA Mira - Renaștere, Baroc și Rococo în arhitectura universală, București, 1994, ISBN 973-30-2932-7,			
5. TALU D.L. Stefan - Stiluri arhitecturale, Cluj-Napoca, 2009, ISBN 978-973-1868-72-1.			
<b>In alte biblioteci</b>			
1. TACHEN - Architectural Theory . From Renaissance to the Present, Köln, 2006, ISBN 3-8228-5085-3,			
2. BORDEN Daniel - Arhitectura - o istorie vizuală, Ed. Litera Internațional, 2009, ISBN 978-973-675-464-7,			
3. GLANCEY Jonathan – The Story of Architecture, Ed. Dorling Kinderslez Book, Londra 2000, ISBN 978-0-7513-4881-1,			
4. The Phaidon Atlas of Contemporary World Architecture, Ed. Phaidon Press, Londra, 2004, ISBN 9780714843124			
5. Phaidon Atlas of 21st Century World Architecture, Ed. Phaidon Press, Londra, 2008 ISBN 9780714848747			

9. Coroborarea conținuturilor disciplinei cu așteptările reprezentanților comunității epistemice, asociațiilor, profesionale și angajatori din domeniul aferent programului

The course provides an initial baseline, necessary for strengthening the relationship engineer – other specializations from the same branch (especially engineer – architect), as well as general knowledge and specialized language.

#### 10. Evaluare

Tip activitate	10.1	Criterii de evaluare	10.2	Metode de evaluare	10.3	Ponderea din nota finala
Course		Answers for 30 de questions (questions and quiz questions)		Written Test – time: 30 – 40min.		100%
Aplicații		-		-		-
10.4 Standard minim de performanță						
Correct answer for 12 questions						

Data completării  
29.08.2017

Titularul de Disciplină  
S.l.dr.arh. Ioana Moldovan

Responsabil de curs  
S.l.dr.arh. Ioana Moldovan




Data avizării în departament

Director departament  
Conf.dr.ing. Claudiu ACIU