

## 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	Civil Engineering and Management
1.4	Field of study	Civil Engineering
1.5	Cycle of study	Bachelor of Science
1.6	Program of study/Qualification	Civil Engineering
1.7	Form of education	Full time
1.8	Subject code	42.20

### 2. Data about the subject

2.1	Subject name				Traditional and Modern Finishes						
2.2	Subject area				Civil Engineering						
2.3	Course responsible/lecturer				Ș.I.dr.arh. MOLDOVAN Ioana– ioana.muresanu@ccm.utcluj.ro						
2.4	Teachers in charge of seminars				Ș.I.dr.arh. MOLDOVAN Ioana– ioana.muresanu@ccm.utcluj.ro						
2.5	Year of study	III	2.6	Semester	I	2.7	Assessment	C	2.8	Subject category	DOP

### 3. Estimated total time

3.1	Number of hours per week	2	3.2	of which, course:	1	3.3	applications:	1
3.4	Total hours in the curriculum	52	3.5	of which, course:	14	3.6	applications:	14
Individual study								hours
Manual, lecture material and notes, bibliography								7
Supplementary study in the library, online and in the field								2
Preparation for seminars/laboratory works, homework, reports, portfolios, essays								7
Tutoring								2
Exams and tests								4
Other activities								N/A
3.7	Total hours of individual study	22						
3.8	Total hours per semester	50						
3.9	Number of credit points	2						

### 4. Pre-requisites (where appropriate)

4.1	Curriculum	N/A
4.2	Competence	N/A

### 5. Requirements (where appropriate)

5.1	For the course	N/A
5.2	For the applications	N/A

## 6. Specific competences

Professional competences	<p>Technological and economic design for execution, operation and maintenance of civil engineering constructions specific to the graduate study program.</p> <p>Identification of construction materials and of structure types in construction.</p> <p>Description of technological processes for civil and industrial civil construction.</p> <p>Explanation of the properties of the building materials and the technologies of implementation for civil, industrial and agricultural constructions.</p>
Cross competences	<p>Designing the technological processes specific to the different phases of realization of the elements of civil, industrial and agricultural constructions</p> <p>Evaluation, selection and optimal use of the different materials that come into the construction elements</p> <p>Applying the criteria for the construction and positioning of civil, industrial and agricultural constructions for the proper selection of technologies and machines.</p>

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

7.1	General objective	Recognizing and understanding of the basic concepts, theories and methods of the field and area of specialization; their proper use in professional communication.
7.2	Specific objectives	<p>Assessing the quality of a civil, industrial and agricultural construction using field-specific evaluation criteria.</p> <p>Assimilating the terminology and the basic standards of the aesthetics of constructions, as well as some of the recent evolutions of this discipline.</p>

## 8. Contents

8.1. Lecture (syllabus)	Teaching methods	Notes
1. INTRODUCTION. Object and problems. The built space and human needs.	Lecture	Video-projector
2. DEFINITIONS of aesthetics. Aesthetic CATEGORIES. Aesthetic CONCEPTS in buildings. The REPRESENTATIVE FUNCTION of buildings and constructions.		
3. ARCHITECTURAL COMPOSITION. Design. Perception – function vs. form.		
4. ARCHITECTURAL COMPOSITION. Point, line, surface, volume.		
5. SPACE QUALITIES. indoor spaces; outdoor space; path; perspective. Proportion, order register, balance, dominant and subordinate elements; the scale of buildings and registers. Geometric reports and transformations		
6. AESTHETICAL MANIFESTATIONS OF THE XX + CENTURY IN CONSTRUCTIONS.		
Design (positive/negative/neutral impact) interactive lecture		
Bibliography		

ACTAR - The Metapolis Dictionary of Advanced Architecture – City, Technology and Society in the Informational age – 2001

GROYS Boris - Despre nou. Eseu de economie culturala, Idea Design & Print, Editura, 2003; KOOLHAS Rem & all – S, M, L, XL, 1995

MATEI Adriana - Identitate culturala locala, Editura UT Press, Cluj-Napoca, 2004

VENTURI Robert - Complexity and Contradiction in Architecture, The Museum of Modern Art Press, New York 1966

VIRILIO Paolo, Spatiul critic - Idea Design&Print, Editura

KIERANS Keneth, “Beyond Deconstruction”, [www.mun.ca/animus/1997vol2/kierans1.htm](http://www.mun.ca/animus/1997vol2/kierans1.htm)

8.2. Applications/Seminars	Teaching methods	Notes
Study groups: Exercise of imagination –Invisible Cities, Italo Calvino	Guidance and verification	Video-projector
Study groups: Analysis of 4 (four) representative pieces of architecture from the world and from the country and presenting them within the application hours - presentation.		
Study groups and individual studies:		
Bibliography: ACTAR - The Metapolis Dictionary of Advanced Architecture – City, Technology and Society in the Informational age – 2001 Italo calvino – Orasele invizibile, Ed. ALL, ISBN: 9789737243379 Fabio Femino - Il futuro visto dal passato <a href="http://www.fabiofeminofantascience.org/RETROFUTURE/RETROFUTURE1.html">http://www.fabiofeminofantascience.org/RETROFUTURE/RETROFUTURE1.html</a>		

**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	Written test (WT)	Written Test – 2h	67%
10.5 Applications	Evaluation of the activities performed during the working hours (A).	Presentation and justification of the studies	33%
10.6 Minimum standard of performance			
WT ≥ 5 și A ≥ 5			

Date of filling in:		Title Surname Name	Signature
28.09.2019	Lecturer	Ș.I.dr.arh. MOLDOVAN Ioana	
	Applications	Ș.I.dr.arh. MOLDOVAN Ioana	

Date of approval in the department .....

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Head of department  
Conf.dr.ing. Claudiu ACIU

Date of approval in the faculty .....

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Dean  
Conf.dr.ing. Nicolae CHIRA