



Меѓународен Универзитет Визион - International Vision University
 University Ndërkombëtar Vizion - International Vision University

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ITEM LAYOUT (SIABUS)

SUBJECT TITLE	SUBJECT CODE	SEMESTAR	TOTAL AVAILABLE FUND OF HOURS	ECTS
MODERN OBJECTS AND MATERIALS	ARC-4010	8	150	5

It's a pre-inseparable note predmetot	yes/no
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Subject language	Macedonian, Turkish, English
Subject type	Election
Degree	First cycle of studies
Subject transmitter	
Subject assistants	
Classroom	Online
Out-of-hours consultations / Classes and place	

The purpose of the subject matter	The purpose of the subject is to introduce and train the student to use advanced types of constructive systems through the study of the principles and elements of constructive systems, the process of their genesis, the materials for their performance, the way and meaning of their application in architecture, the use of modern and advanced construction technologies in architecture through the study of the principles and elements of construction processes, materials and technologies for their performance.
Subject learning results	the use of modern and advanced construction technologies in architecture through the study of the principles and elements of construction processes, materials and technologies for their performance. through interactive teaching of lectures and exercises through consultations, talks, etc.
Program content	<p>Topic 1 – Development of design systems Introduction and information on the development and influence of ideas on form as a order, form as a system, constructive rationalism, machine aesthetics, shape typology, form mediation and innovative forms in the genesis of advanced and complex constructive systems.</p> <p>Topic 2 – Line, plane and spatial constructive systems. Constructive systems with beams, frames and spatial carriers. Structural systems so pimped and dome structural elements. Grids with structural systems, beams, spacious grilles and vertical grilles.</p> <p>Topic 3 – Complex design systems. Constructive systems of geometric and rolled planes.</p>

	<p>Constructive systems of hanged and strengthened constructive elements. Membrane structural systems. Topic 4 – Development of construction systems. Introduction and information on the development and impact of ideas on the robbery process, construction as a system, constructive systems, industrial production and innovative technologies in the performance of architectural buildings. Topic 5 – Modular and refabricated construction systems. Topic 6 – Advanced construction systems. Principles, elements, materials, the process of generating the shape of the system and the technology of construction by applying digital tools. Digitally generated elements, structures and design systems. Design process from drawing to factory. Procedures for performing fast prototypes and digitally assisted performance.</p>
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DISTRIBUTE TOPICS BY TIME

Sunday	Theme	Preliminary preparations
1	Development of design systems	
2	Introduction and information on the development and impact of ideas on form as a order	
3	Line, plane and spatial constructive systems	
4	Constructive systems with beams, frames and spatial carriers	
5	Complex design systems	
6	Constructive systems of hanged and strengthened constructive elements	
7	Membrane design systems	
8	Development of construction systems	
9	Introduction and information on the development and impact of ideas on the robbery process	
10	Modular and refabricated construction systems	
11	Advanced construction systems	
12	Procedures for performing fast prototypes and digitally assisted performance	

ECTS TABLE AND TIME FUND

Presentation / Seminar			
Study outside class (preliminary preparation and improvement)	14	3	42
Colloquium	1	12	12
Exam	1	14	14
Total load on the object			

GENERAL PRINCIPLES FOR THE SUBJECT MATTER

Respected students,

To be part of the subject, learn lessons completely and achieve success, you must come to every lesson prepared by reading basic and additional literature. We expect you to adhere to hours, not to interrupt classes unless absolutely necessary, Actively participate in the lesson, communicate with your teacher and classmates and be active in discussions. At the beginning, middle or end of each lesson Students attending all classes during the semester will also be awarded a 15-point attendance score, in addition to the exam assessment.

LITTERATURA

Zadolžitelna lyteratrtra		
No	Naslov	Avtor, izdavach, godina
1	<i>Construction architecture: materials, processes, structure.</i> Skopje, Ars Lamina, 2012	Deplaces, Andrea
2	<i>The Function of Form,</i> Actar and Harvard University GSD, 2009.	Mousavi, Farshid
3		

Additional literature		
No	Naslov	Avtor, izdavach, godina
1	<i>Digital Materiality in Architecture,</i> Lars Muller Publishers, 2008.	F. Gramazio, M. Kohler
2		

Criterioni for a father (BODOVI-OCENA)

Kriteriumi for the father	Number	SUBJECT TO CONTRIBUTION
Presence	14	% 10
Project/ activity	1	% 30
Colloquium	1	% 30
Exam	1	% 30
TOTAL	14	%100

CODE ON ETHICS AT THE UNIVERSITY

In cases of cheating or attempting to make copies of exams, the appropriate disciplinary rules in the legislation of the Ministry of Education and Vision International University are expected to never support such behavior.