THE PROGRAM OF THE UNDERGRADUATE UNIVERSITY STUDY OF ARCHITECTURE AND URBAN PLANNING

The undergraduate program in Architecture and Urban Planning at the Faculty of Civil Engineering, Architecture, and Geodesy spans three academic years, structured across six semesters. The curriculum is designed in accordance with the European Credit Transfer and Accumulation System (ECTS) of the European Higher Education Area (EHEA), requiring students to earn a minimum of 60 ECTS credits each year, for a total of at least 180 ECTS credits to obtain a bachelor's degree.

The program's learning outcomes are aligned with Directive 2013/55/EU of the European Parliament and Council, which amends Directive 2005/36/EC, Article 46, on the recognition of professional qualifications. Each learning outcome is labeled (with a corresponding letter in brackets) to denote specific units of knowledge, skills, and competencies that students are expected to acquire through both theoretical and practical components of architectural education, typically over a minimum of five years of full-time study. At FCEAG, students develop these competencies throughout both the undergraduate and graduate levels of their studies in Architecture and Urban Planning.

The design studios represent the fundamental methodological framework of the program, where students engage in hands-on projects that integrate architecture with cultural, societal, artistic, economic, and environmental considerations. The content of other modules is designed to complement and enhance studio work, encouraging multidisciplinary collaboration across various fields of knowledge. By the end of their undergraduate studies, students have acquired essential design skills, fundamental technical knowledge, and a broad theoretical understanding of urban planning, architectural theory, art history, and contemporary architectural practices.

Students who successfully meet all course requirements, complete their bachelor's thesis, and pass the final defense will be awarded the academic title of University Bachelor Engineer of Architecture and Urban Planning (univ. bacc. ing. arch.). Graduates are prepared to either continue their studies in graduate programs in architecture and urban planning in Croatia or abroad, subject to the admission criteria of the respective institutions, or to enter the labor market. They are qualified to collaborate on architectural and urban planning projects and meet part of the criteria for entry into the Directory of Certified Engineers and the Directory of Certified Construction Managers of the Croatian Chamber of Architects.

Syllabus

Teacher	Course	Related learning outcomes	Teaching and learning	Assessment	Code	Hours	ECTS
	Semester I						
H. Njirić	Introduction to Architectural Design 1	g	1, 2, 3	1,3	GAS011	30+45	6,0
J. Kalajžić	Typology and Form in Architecture 1	e	1	1, 2	GAS012	30+0	2,0
Ž. Nikolić, N. Živaljić	Basis of Structures 1	h	2, 3	1	GAO111	30+30	6,0
A. Kuzmanić	Drawing 1	c	3	3	GAS013	0+30	3,0
N. Lovričević	Principles of Projections 1	c	1, 2, 3	1, 2	GAC011	30+30	5,0
V. Perković Jović	Elements of Buildings 1	i	1, 2, 3	1, 2	GAM011	30+30	4,0
J. Sedlar, S. Pavasović	Mathematics 1	h, i	2, 3	1	GAB011	15+15	2,0
D. Peračić	Computer - Aided Architectural Design 1	c	3	3	GAS014	0+30	2,0
	Semester II						
H. Njirić	Introduction to Architectural Design 2	g	1, 2, 3	1, 3	GAS015	30+45	6,0
N. Popić	Typology and Form in Architecture 2	e	1	1, 2	GAS016	30+0	2,0
M. Andrić	Principles of Projections 2	c	1, 2, 3	1, 2	GAC012	30+30	5,0
A. Kuzmanić	Drawing 2	c	3	3	GAS017	0+30	3,0
D. Peračić	Computer - Aided Architectural Design 2	c	3	3	GAS018	0+30	2,0
V. Perković Jović	Elements of Buildings 2	i	1, 2, 3	1, 2	GAM012	30+30	4,0
M. Galić	Basis of Structures 2	h	2, 3	1, 2	GAO012	30+30	6,0
J. Sedlar	Mathematics 2	h, i	2, 3	1	GAB012	15+15	2,0
	Semester III						
J. Kalajžić	Architectural Design Workshop 1	a, g	2, 3	3	GAS111	30+60	10,0
S. Matijević Barčot	Typology and Form in Architecture 3	e	1	1, 2	GAS112	30+0	2,0
K. Marasović	History of Architecture and Art 1	b	1, 4	1, 2	GAT011	60+0	4,0
A. Kuzmanić	Visual Design	c	3	3	GAS113	0+45	2,0
A. Krstulović	Architectural Presentation	a	2, 3	3	GAS019	0+45	2,0

D. Žižić	Elements of Buildings 3	i	1, 2, 3	1, 2	GAM111	30+30	4,0
D. Matešan, M. Smilović Zulim	Bearing Structures 1	h	2, 3	1, 2	GAE111	45+30	6,0
	Semester IV						
I. Letilović	Architectural Design Workshop 2	a, g	2, 3	3	GAS114	30+60	10,0
S. Perojević	History of Architecture and Art 2	b	1, 4	1, 2	GAT012	60+0	4,0
D. Peračić	Typology and Form in Architecture 4	e	1	1, 2	GAS115	30+0	2,0
A. Grgić	Introduction to Urban Planning	d	1	1	GAU011	30+0	2,0
S. Perojević	History of the Urban Form	d	1	1,2	GAU012	30+0	2,0
D. Žižić	Elements of Buildings 4	i	1, 2, 3	1, 2	GAM112	30+30	4,0
I. Boko, N.Torić	Bearing Structures 2	h	2, 3, 4	1, 2	GAP111	45+30	6,0
	Semester V						
D. Peračić	Architectural Design Workshop 3	a, g	2, 3	3	GAS211	30+60	10,0
S. Perojević	History of Architecture and Art 3	b	1, 4	1, 2	GAT111	60+0	4,0
D. Gabrić	Urban Planning Workshop 1	d	2, 3	3	GAU111	30+30	8,0
D. Žižić	Building Installations	i	1, 3	1, 2	GAM211	30+30	4,0
D. Žižić	Building Physics	i	1, 2, 3	1, 2	GAM212	15+15	2,0
N. Ostojić-Škomrlj	Construction Planning and Management	j	1, 2, 3	1, 2	GAL211	15+15	2,0
	Semester VI						
D. Bušnja	Architectural Design Workshop 4 - Final Work	a, g	2, 3, 7	3	GAS212	30+90	12,0
S. Matijević Barčot	Modern Architecture	b	1, 4	1, 2	GAT114	60+0	4,0
S. Matijević Barčot	Modern History of Urban Design	b	1	1,2	GAU115	30+0	2,0
D. Gabrić	Urban Planning Workshop 2	d	2, 3	3	GAU112	30+60	8,0
D. Cvitanić	Urban Traffic Areas and Facilities	d	1,3	1, 2	GAF211	30+15	2,0
V. Srzić, M. Galešić Divić	Marine Structures and Ports	d	1,3	1,2	GAK 011	30+15	2,0

Learning outcomes – Undergraduate University Study of Architecture and Urban Planning

Label	Units of learning outcomes
a	To create an architectural design that satisfies both the aesthetic and the technical requirements (a).
b	To critically assess the history and theories of architecture and the related arts, technologies and social sciences (b).
c	To integrate knowledge of the fine arts as an influence on the quality of architectural design (c).
d	To critically assess the theory and history of urban design, planning and the skills involved in the planning process (d).
e	To understand and validate the relationship between people and buildings, as well as between buildings and their environment, and to predict the need to relate buildings and the spaces between them to human needs and scales (e).
f	To examine the role of the profession and the role of the architect in the community, in particular with respect to preparing briefs that take account of social factors (f).
g	To plan and develop the methods of investigation and preparation of the brief for a design project (g).
h	To re-examine the problems of the structural design, and the constructional and engineering problems associated with building design (h).
i	To connect the knowledge of physical problems and technologies and of the function of buildings, so as to ensure that their interiors provide comfort and protection from the effects of climate conditions within the framework of sustainable development (i).
j	To combine the necessary design skills to meet the building users' requirements within the constraints imposed by cost factors and building regulations (j).

Teaching and learning:

1. Lectures
2. Theoretical exercises: teacher demonstrates to students how to solve standard mathematical, engineering or artistic tasks.
3. Practical exercises: students solve and prepare practical assignments under supervision of the teacher in standard or IT equipped classrooms.
4. Field exercises: students and teachers visit, or students perform small-scale practical work at historical buildings or areas, museums, construction sites, etc.
5. Lab exercises: the teacher demonstrates experiments/tasks to students, or students perform their own experiments/tasks in the laboratory under the supervision of teachers and/or technicians.
6. Internship: students perform practical work at architectural bureaux or construction sites during semester or summer vacations.
7. Independent work: theoretical or practical assignment under the supervision of a teacher.

Assessment:

1. Written exams: students solve tasks as the paperwork or by a computer in IT equipped classrooms. They may be performed throughout the semester or during the examination period.
2. Oral exams: a teacher poses questions to students in a spoken form.
3. Presentation or defence of a practical, artistic or written assignment.