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

The university graduate study in Architecture and Urban Planning at the Faculty of Civil Engineering, Architecture and Geodesy lasts two academic years and is organised in four semesters.

The syllabus consists of compulsory, elective and extracurricular courses. It is aligned with European Credit Transfer and Accumulation System (ECTS) of the European Higher Education Area (EHEA) and students accumulate minimum of 60 ECTS each academic year. In order to obtain qualification (Master's degree) students have to accumulate minimum of 120 ECTS.

The learning outcomes are aligned with Directive 2013/55/EU of European Parliament and Council of 20 November 2013 amending Directive 2005/36/EC, Article 46, on the recognition of professional qualifications. A letter is attributed to each learning outcome (a lable of the learning outcome, in the brackets at the end of the description of the leaning outcome), which, according to Article 46 of said Directives, marks an individual unit of knowledge, skills and competences to be attained through theoretical and practical aspects of architectural education (in the period of at least five years of full-time study at the university). As regards FCEAG, students acquire knowledge, skills and competences prescribed in Article 46 of the Directives including the learning outcomes achieved at the undergraduate university study of Architecture and Urban Planning.

The university graduate study in Architecture and Urban Planning is structured around five core modular themes: Architectural Design, History and Theory of Architecture, Conservation and Restoration of Building Heritage, Urban Planning, and Project Management. Additionally, elective courses allow students to tailor part of their studies to individual interests.

The Architectural Design module forms the foundation of the architecture program. It enables students to develop essential competencies for professional practice in architectural design upon graduation. The core of this module is the design studio work — Master's Studio 1, 2, and 3—which serves as the primary methodological approach in the master's program. These studios aim to integrate all course content into a cohesive system, where other course contents precede or complement studio work, fostering multidisciplinary interactions among different fields of knowledge and processes. The methodology is based on complex problem-solving tasks of varying levels of difficulty. Within the studio, architecture is explored both as a physical framework for hypothetical scenarios and as a medium that can adapt to programmatic transformations. The studios are designed to account for half of the ECTS credits for each semester (15 ECTS).

The goal of the studios is to consolidate and apply all knowledge, experience, and skills acquired throughout the master's program across different thematic areas, including design, urban planning, project management, spatial protection, and theoretical foundations. By completing these modular design studios, students will be prepared to tackle complex architectural challenges.

The History and Theory of Architecture module aims to familiarize students with the development of contemporary architecture and architectural theory, providing the knowledge necessary for developing their own architectural discourse. This module includes a series of courses that explore the evolution of contemporary architecture from the 1970s to the present, both globally and nationally, as well as the historical development of architectural theory and current theoretical trends. Students gain a comprehensive understanding of contemporary architectural development and theoretical perspectives, laying a solid foundation for individual development, a theoretically informed approach to architectural design, and addressing specific design tasks.

A distinctive feature of this master's program is its emphasis on the conservation and restoration of building heritage. This focus is essential for mastering specific tasks in the architectural design studios and acquiring the knowledge needed for professional practice, where architects often deal with projects involving historical contexts. After completing this module, students are expected to understand and apply procedures for addressing various complexities related to the protection and restoration of historical buildings and sites. The curriculum covers the history and theory of monument conservation, the development of conservation theory and practice both locally and internationally, and methodologies for handling building heritage. Practical design tasks include projects for the restoration of simpler historical buildings (folk architecture), studies of historical spatial development, and the restoration of historically layered buildings or complexes. Students also gain insights into the activities of agencies responsible for heritage protection and restoration.

The global aim of the Urban Planning module is to understand urban planning as a complex process for determining guidelines for strategically sustainable societal development. This module builds on the previous Urban Planning series from the undergraduate program. It includes research-oriented courses that, together with the content of University Graduate Studios 1, 2, and 3—especially University Graduate Studios 2 and 3—constitute a comprehensive program. Students acquire the knowledge necessary to analytically address complex urban planning problems, apply theoretical knowledge, and solve intricate urban planning tasks. Through various modules, students learn about research in urban planning, urban design, and urban phenomena, developing methods for integrating architecture with urban planning, understanding economic development models, and integral environmental protection.

The Project Management module equips students with fundamental principles and methods for planning and managing construction projects. Students learn to create and apply plans in practice, gaining knowledge of business and investment principles in construction. This module prepares students for practical tasks such as project preparation, selection, feasibility studies, and evaluating investment ventures.

Upon completion of the University Graduate Study of Architecture and Urban Planning, the student is qualified for independent and team-based interdisciplinary work in solving complex architectural and urban planning assignments. They are also well prepared for further education and research in postgraduate studies in the area of technical sciences, particularly architecture and urbanism, as well as in other scientific and artistic areas, depending on the admission requirements of the respective programs.

Upon completion students are awarded the academic title and corresponding qualification University Master Engineer of Architecture and Urban Planning (univ.mag.ing.arch.).

The holder of this qualification is entitled to perform a wide range of professional tasks in the field of urban planning, architectural design, and construction. Upon completion of the studies, they fulfil part of the requirements for entry in the Directory of Certified Architects and the Directory of Certified Architects / Urban Planners of the Croatian Chamber of Architects.

LEARNING OUTCOMES OF STUDY PROGRAMME

1. To create and independently manage an architectural and/or urban planning design that satisfies both the aesthetic and the technical requirements (a)

2. To critically assess the history and theories of architecture and the related arts, technologies and social sciences (b)

3. To assess and integrate urban design and spatial planning as well as the skills involved in the planning process (d)

4. To validate and support with arguments 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)

5. To assume accountability within the profession of architect and the role of the architect in society, in particular with regard to preparing briefs that take account of social factors (f)

6. To critically assess and select the methods of investigation and preparation of the brief for a design project (g)

7. To innovatively combine the necessary design skills to meet the building users' requirements, within the constraints imposed by cost factors and building regulations (j)

8. To confirm the possession of an adequate knowledge of the industries, organisations, regulations and procedures involved in translating design concepts into buildings and integrating plans into overall planning (k)

Syllabus

The table below shows information for the spring and the autumn semester. Detail plans for specific semesters and academic years are published on the Faculty's web site link.

Teacher	Course	Related learning outcomes	Teaching and learning	Assessment	Code	Hours Lectures / Exercises	ECTS
	Semester I						
N. Kezić	Graduate Design Studio 1	a, g	2, 3, 4, 5	3	GAS711	30+90	15,0
H. Njirić	Contemporary Architecture	e	1	1, 2	GAT711	30+0	2,0
K. Marasović, S. Perojević	Protection and Restoration of Architectural Heritage Studio 1	b, e	1, 3, 4	1, 3	GAV711	30+30	5,0
A. Šverko	Research in Urban Planning	d, f	1, 3, 5	1, 3	GAU711	15+15	2,0
N. Jajac	Project Management	j, k	1, 3	1, 2	GAL711	30+0	2,0
H. Bartulović	Physical Planning 1	d, e	1	1, 2	GAU713	30+0	2,0
	Elective subjects						2,0
	Semester II						
T. Plejić, D. Peračić	Graduate Design Studio 2	a, g	2, 3, 4, 5	3	GAS712	30+90	15,0
D. Tušek	Croatian architecture in the 20th century	e	1	1, 2	GAT712	30+0	2,0
K. Marasović, S. Perojević	Protection and Restoration of Architectural Heritage Studio 2	b, e	1, 3, 4	1, 3	GAV712	30+30	5,0
H. Bartulović	Urban Design	f	1	3	GAU712	30+0	2,0
A. Grgić	Physical Planning 2	d, e	1	1, 2	GAU714	30+0	2,0
N. Jajac	Construction Investments Planning	j, k	1, 3	1, 2	GAL712	30+0	2,0
	Elective subjects						2,0

Teacher	Course	Related learning outcomes	Teaching and learning	Assessment	Code	Hours	ECTS
	Semester III						
S. Randić	Graduate Design Studio 3	a, g	1, 2, 3, 4, 5	3	GAS811	30+90	15,0
N. Kezić	Interior Design	a	1, 3	3	GAS812	30+30	5,0
S. Matijević	Theory of Architecture	e	1	1, 2	GAT811	30+0	2,0
S. Golem	Urban Economy	f	1	2	GAU811	30+0	2,0
S. Stanić	Social Urban Research	f	1	1,2	GAU715	30+0	2,0
H. Bartulović	Integrated Environmental Protection	d, k	1	1, 2	GAJ811	30+0	2,0
	Elective subjects						4,0
	Semester IV						
	Master thesis	a, d, g, j, k	7	3	GAX911		30,0
	Elective subjects						
H. Bartulović	BIM	g	2, 3	3	GAS 713	10+20	1,0
N. Kezić	Professional Practice	d, e	4	3	GAS714		2,0
K. Marasović	Protection and Restoration of Architectural Heritage Studio 3	b, e	1, 3, 4	1, 3	GAV713	15+15	2l0
D. Gabrić, A. Grgić, H. Bartulović	International Urban Planning and Architectural Workshop	d, e	1, 3, 4	3	GAU 716		2,0
D. Gabrić	Complex Architectural and Urban-Design Structures	f, g	1, 5	3	GAU717	30+0	2,0
I. Škarica	Foreign Language	j	1, 3	3	GAA711	15+15	1,0

Teaching and learning:

1. Lectures: a teacher teaches ex-cathedra or uses some forms of interactive 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. Independent research: 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 preformed throughout the semester or during the examination period.
2. Oral exams
3. Presentation or defence of a practical, artistic or written assignment.