

Architectural design-Studio (152102)

Course coordinator

[Assoc. Prof. Art. Monika Kamenečki, PhD](#)

Course description

Information about the content and topics of the course. The similarities, differences and the interconnectedness of architecture and landscape architecture disciplines, with particular reference to the problem of interconnection of interior and exterior spaces and interaction of architectural and landscape space.

Lectures - Main elements of architectural design process. Elements of urbanistic analysis, architectural analysis of individual buildings. Project plans, project program, building programming. Analysis of spatial planning documents, regulations and design requirements (traffic and parking, regulations for persons with reduced mobility, fire requirements, urban planning parameters). Building Particle - natural terrain; floor area - TP, gross building area - GBP, building volumes; parts - building floors). Materials in architecture. Basics of architectural constructions - construction types, basic construction principles, constructive raster. Spatial and technical subsystems, installations, building physics. Measures, measurement systems, modular coordination. Establish a system of measures in architecture, the basis of dimensioning and the proportioning of space. Measuring systems as a result of ergonomics and complex systems based on mathematics or number symbolism (Golden Cut, Fibonacci Series, Modulor, etc.). Relationship between measurements in architecture and dimensions in the open space. Urban composition, architectural composition. Simultaneous experience of external and internal space.

Exercises and Seminars - Design and functional concept of the building, inner and outer space connection articulation - sketches, drawings, work model, three-dimensional views. Conceptual design project - drawings, model and technical description with urbanistic parameters.

Simultaneous design of architectural and landscape design project, simultaneous and interactive approach, projects harmonization before final definition of each project part.

Exam - Student presents and argues its architectural and landscape design to the others from the group, with questions, discussion and critical evaluation of other respondents, mentors and guest critics.

ECTS: 12.00English language: **L2****Teaching hours: 120**

Lectures: 30

Practicum: 82

Seminar: 8

Lecturer

- prof. art. Stanko Stergaršek
- [Asst. Prof. Iva Rechner Dika, PhD](#)

Associate teacher for exercises

- [Asst. Prof. Iva Rechner Dika, PhD](#)
- [Aneta Mudronja Pletenac, MSc. arch.](#)

Associate teacher for seminars

- [Asst. Prof. Iva Rechner Dika, PhD](#)
- [Aneta Mudronja Pletenac, MSc. arch.](#)

Grading

Sufficient (2): 60-70%

Good (3): 71-80%

Very good (4): 81-90%

Excellent (5): 91-100%

Conditions for obtaining signature

Regular attendance and completing set tasks on time.

Type of course

- Graduate studies / [MS Courses taught in English](#) (Elective course, 1 semester, 1 year)

General competencies

The student is trained to recognize and critically reflect on the aesthetic values of architectural and urban spatial compositions, to create and modify related landscape related designs, as well as for full professional communication and collaboration with architects, urban planners and experts in related areas.

Types of instruction

- **Lectures**
Lectures include theoretical and practical aspect of architectural design (in simplified form) and connect architectural and landscape design.
- **Consultations**
A student can get clarifications of the course material or a comment on a seminar or project.
- **Seminars**
Through seminars related to the project topic, students work in groups and explore selected topics and present them to others.
- **Design exercises**
As part of the design exercises, the students create conceptual design of the building and the outer space, including the urban layout of the individual contents.

Learning outcomes

Learning outcome	Evaluation methods
Identify, assess and evaluate the existing landscape, including its architectural and urban features, and recognize the importance of events in landscape architecture at community and society level	Seminar, Oral exam
Define landscape quality elements, including its architectural and urban features, and therefore define the goals of possible development in landscape	Seminar, Oral exam
Differentiate urban and rural open space typology and their determination by designed or built architecture and / or urban plan, and determine their functional commitment and design qualities	Seminar, Oral exam
Recognize the importance of events in landscape architecture, especially by noting the problem landscape degradation by building	Seminar, Oral exam
Identify society and individual needs and towards landscapes and open spaces and their linkage to architectural content, within the imposed frameworks generated from economic, ecological and cultural factors and various technical possibilities	Pismeni (projekt), Usmeni
Identify society and individual needs and towards landscapes and open spaces and their linkage to architectural content, within the imposed frameworks generated from economic, ecological and cultural factors and various technical possibilities	Written (project), Oral exam
Design new landscape structures linked to architectural content and based on contemporary organizational, planning and designing skills, while meeting the human and natural requirements (protection of the natural environment and heritage)	Written (project), Oral exam
Generate a larger number of conceptual designs, choose and propose the most convenient area design	Written (project), Oral exam

Working methods

Teachers' obligations

Regularly maintain all forms of teaching. Specified time for consultations beyond regular classes.

Students' obligations

Regular attendance and completing set tasks.

Methods of grading

Evaluation elements	Maximum points or Share in evaluation	Grade rating scale	Grade	Direct teaching hours	Total number of average student workload	ECTS
Seminars		0-59% 60-70% 71-80% 81-90% 91-100%	Insufficient (1) Sufficient (2) Good (3) Very good (4) Excellent (5)	8	24	1

Evaluation elements	Maximum points or Share in evaluation	Grade rating scale	Grade	Direct teaching hours	Total number of average student workload	ECTS
Project presentations	10	0-59% 60-70% 71-80% 81-90% 91-100%	Insufficient (1) Sufficient (2) Good (3) Very good (4) Excellent (5)	12	36	1
Written (project), oral (project presentation and answering questions)	80	0-59% 60-70% 71-80% 81-90% 91-100%	Insufficient (1) Sufficient (2) Good (3) Very good (4) Excellent (5)	100	300	10
Total	100			120	360	12

Weekly class schedule

1. Course introduction. Similarities, differences and the correlation between architecture and landscape architecture. The problem of architectural and landscape space interaction. Assignment distribution (plans and programme), tour of the site. Photographing, sketching, discussion
2. Field work - relation between architectural inner space and urban landscape, relevant examples, analyses. Photographing, sketching, discussion Class work - relation between architectural inner space and urban landscape, relevant examples, analyses
3. Main elements of architectural design process; elements of urban analysis in different scales, particular building architectural analysis, landscape analysis. Graphic analysis. sketches, discussion.
4. Analysis of space planning documents, regulations and preconditions for design, basic terms. Building placement on the site, the main functional groups recognition. Graphic analysis. sketches, discussion.
5. The main functional groups zoning and orientation, interrelation with surrounding landscape. Graphic analysis. sketches, discussion
6. Human dimensions, space dimensions, system of modular coordination. Relation between indoor and outdoor space dimensions and systems. Urbanistic, architectural and landscape composition interrelation. The main functional groups sizing - inner and outer space. Graphic analysis. sketches, discussion.
7. Building design and functional concept elaboration (or development); defining building-landscape correlation; making a working model.
8. Design concept presentation, discussion.
9. Building and landscape design and functional concept corrections and further elaboration; working model; floor plans, sections, facades (sketches).
10. Materials in architecture. Basics of architectural construction. Spatial and technical subsystems. Defining basic constructural system and constructural grid. .
11. Development and dimensioning of particular spaces within facility groups. Defining relations between indoor and outdoor spaces. Defining and dimensioning outdoor facilities.
12. Building and landscape design; materials and colours.
13. Building and landscape design presentation, discussion.
14. Conceptual design project - required elements and their content. Technical description - required elements and urbanistic parameter calculations. parametara.
15. Final conceptual design presentation, critical evaluation, discussion.



Obligatory literature

1. Neufert, E. (2012): Architects' Data, Wiley-Blackwell , A John Wiley & Sons, Ltd., Publication

Recommended literature

1. 6. Frampton, K. (2002): Modern architecture - a critical history, Thames & Hudson world of art, Singapore