

Study plan

Name of study plan: Landscape Architecture, in English

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch:

Program of study: Landscape Architecture

Type of study: Follow-up master full-time

Required credits: 120

Elective courses credits: 0

Sum of credits in the plan: 120

Note on the plan:

Name of the block: Compulsory courses

Minimal number of credits of the block: 100

The role of the block: Z

Code of the group: DESIGN STUDIOS NKAЕ

Name of the group: Design studios NKAЕ

Requirement credits in the group: In this group you have to gain 70 credits

Requirement courses in the group: In this group you have to complete at least 5 courses

Credits in the group: 70

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) <i>Tutors, authors and guarantors (gar.)</i>	Completion	Credits	Scope	Semester	Role
500AT4	Design Studio IV - Urban Landscape Project <i>Till Rehwaldt</i>	KZ	13	0P+8C		z
500AT5	Design Studio V – Landscape Project <i>Vladimír Sitta Vladimír Sitta (Gar.)</i>	KZ	13	0P+8C		z
500AT6	Design Studio VI - Landscape Comprehensive Project	KZ	14	0P+8C		z
500DPL	Diploma Project	Z	28	0P+28C	L	z
500DSL	Diploma Seminar	KZ	2	0P+2C	Z	z

Characteristics of the courses of this group of Study Plan: Code=DESIGN STUDIOS NKAЕ Name=Design studios NKAЕ

500AT4	Design Studio IV - Urban Landscape Project	KZ	13
A comprehensive landscape and urban plan of a larger territorial unit. The studio will focus mainly on the landscape or public space, control mechanisms for its creation and a long-term perspective. The project will include a problem map expressing potential and limiting factors, topographic analyzes, historical studies and cultural data, demography, hydrology, geology, climate (prevailing winds, shading control, etc.) analysis of existing vegetation and transport. The project will address the material layout of buildings, small architecture and engineering structures, vegetation and its skeletal species composition, all forms of transport, networks, or phasing. The project will take into account the principles of the so-called green infrastructure and the territorial system of ecological stability.			
500AT5	Design Studio V – Landscape Project	KZ	13
A task with a clear program or conceptual work. Participation in the formulation of the task and the program is assumed. Unlike Design Studio IV. There is an emphasis on detailed task processing. Scale 1: 500 and smaller. The scale of the parts or details must be adequate for the subject shown (1: 200.1: 50.1: 20, etc.) The course Design Studio V in the form of studio teaching offers students the opportunity to further develop their own creative skills by applying them to other specific thematic assignments from the leading studio in the form of designing a more complex product, object or spatial formation. The design must already include a synthesis of functional visual and technical components that give the resulting design the value of design. Students work on this topic throughout the semester, resulting in their work as a studio semester project, which at the end of the semester is publicly presented within the Faculty of Architecture and is graded by graded assessment.			
500AT6	Design Studio VI - Landscape Comprehensive Project	KZ	14
The course Design Studio VI in the form of studio teaching follows the Design Studio IV and Design Studio V, with the same form of instruction, i.e. a studio semestral project, and develops the ability of students to create independently on a topic given by the head of the studio. Compared to the previous studios, the Design Studio VI is specific because of its theme.			
500DPL	Diploma Project	Z	28
The diploma project is the final work which shows the ability of the student to cope independently and comprehensively with an assignment, from its concept, through its design until its presentation. The assignment may be from the domains of architecture, urbanism or landscape architecture. The diploma project examines the theoretical knowledge base of the student, his ability to analyse complex problems, to produce high quality design solutions, and prove the ability to present them comprehensively. The result of the diploma project is presented in a recommended A3 portfolio, which contains drawings, diagrams and a theoretical text written by the student. Often the assignment specifies that the diploma project should be supported by a 3D model. Exhibition posters are printed for the purpose of exhibiting the diploma project in accordance with the rules laid down by the dean. It is also possible to receive a theoretical assignment as a diploma project. In this case, it is necessary to follow scientific work standards in terms of the content, sources, method and form. Detailed information about the course and the required outcomes are provided in Dean's Directive SZZ and in other documents published on the faculty's website in the given semester.			

500DSL	Diploma Seminar	KZ	2
The diploma seminar represents the initial step leading to the diploma project, which is elaborated in the following semester. The purpose of the diploma seminar is to analyse the wider scope of the topic on which the award of the diploma thesis will be based. By working on the diploma seminar the student will be able to gain insight into professional issues connected with his or her future diploma project in the form of a research project, within which the diploma thesis will be developed. The diploma seminar precedes the diploma project and can be processed in the following variants: • Analysis of the territory of the future diploma project - in which case the student should not be acquainted with the specific program of the diploma project. • Search for the program and typology of the future diploma project - in which case the student should not know the specific place of the diploma project. • Optional other variants are possible in agreement with the studio tutor and the dean approval.			

Code of the group: COMPULSORY NKAЕ

Name of the group: Compulsory courses NKAЕ

Requirement credits in the group: In this group you have to gain 30 credits

Requirement courses in the group: In this group you have to complete at least 12 courses

Credits in the group: 30

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) <i>Tutors, authors and guarantors (gar.)</i>	Completion	Credits	Scope	Semester	Role
500CL1	Cultural Landscape I <i>Milena Hauserová Milena Hauserová</i>	Z,ZK	3	2P+1C	Z	z
500EKL2	Ecology II <i>Petr Klápšt Petr Klápšt (Gar.)</i>	KZ	2	2P+0C	L	z
500EBE	Economy of Built Environment <i>Karel Maier, Jakub Vorel Jakub Vorel</i>	Z,ZK	3	2P+1C	L	z
500TKZ3	Landscape Architecture III - Technology	KZ	2	2P+0C	L	z
500TKZ4	Landscape Architecture IV <i>Ivan Plicka, Radmila Fingerová Ivan Plicka (Gar.)</i>	ZK	2	0P+2C	Z	z
500LAT1	Landscape Architecture Theory I <i>Jana Tichá Jana Tichá Jana Tichá (Gar.)</i>	ZK	2	2P+0C	Z	z
500LCM	Landscape Construction and Management <i>Veronika Sojková, Lenka Prokopová Lenka Prokopová</i>	Z,ZK	3	2P+1C	Z	z
500LP1	Landscape Planning I <i>Klára Salzmann Klára Salzmann (Gar.)</i>	KZ	2	2P+0C	Z	z
500OP	Product Ecology	ZK	2	2P	L	z
500TZI2	Technical Infrastructure II - Urban Utilities <i>Lenka Prokopová, Daniela Bošová, Zuzana Vyoralová Lenka Prokopová Zuzana Vyoralová (Gar.)</i>	Z,ZK	3	2P+1C	Z	z
500UP1	Urban Planning I <i>Petr Klápšt , Karel Maier, Jakub Vorel, Vít ezá Petr Klápšt Karel Maier (Gar.)</i>	ZK	3	2P+1C	Z	z
500U4	Urbanism IV - Design <i>Jan Jehlík, Jana Zdráhalová, Lenka Burgerová Jan Jehlík Jana Zdráhalová (Gar.)</i>	Z,ZK	3	2P+1C	L	z

Characteristics of the courses of this group of Study Plan: Code=COMPULSORY NKAЕ Name=Compulsory courses NKAЕ

500CL1	Cultural Landscape I	Z,ZK	3
The aim of the course is to clarify that the cultural characteristics of the landscape, together with the natural integral part of its identity, and to show how human activity in the landscape manifested itself in the past and how traces of these processes are reflected in the current form of the landscape. The concept of teaching is based on acquaintance with the forms of important historical stages of the cultural landscape and with the processes that shaped them. This approach creates the preconditions for understanding the original context to which the phenomena whose residues are part of today's landscape image belonged. Students will be guided to be able to identify the cultural values of the landscape and to study the conditions that condition the relative stability or transience of phenomena in the landscape and try to understand them. It is assumed that they will apply this knowledge to the design of landscaping. The course also introduces the student to the specifics of a multidisciplinary approach to the identification of cultural values of the landscape and to cooperation with relevant experts in related fields. Excursions will be an integral part of teaching. Depending on the nature of the topic studied, experts from other related disciplines (nature protection, forestry and water management, archeology, botany, geology, etc.) will be involved in field teaching.			
500EKL2	Ecology II	KZ	2
Ecological problems become limiting factors in today's world. Concepts such as ecology, environment, natural resources, ecological crisis, environmental pillar of sustainable development should become specific and graspable for the graduate. The course is divided into blocks: Fundamentals of General Ecology, Natural Resources – Characteristics, Use, Damage, Protection, Basics of Landscape Ecology and Nature Conservation, Use of Environmental Knowledge in Designing Buildings and Towns (Building Biology, Ecosystem Approach) to the environment.			
500EBE	Economy of Built Environment	Z,ZK	3
500TKZ3	Landscape Architecture III - Technology	KZ	2
Introduction to landform and landform representation. Perception and scale of the landscape experience. Landform modelling. Landform manipulation. Surface water management. Surface water management and soil erosion sedimentation control. Landscape structures; pavement surfaces, design, detailing and performance. Steps, ramps and railings; design and detailing. Walls and slope structures; engineering, design and detailing. Site structures for occupancy; sitting, walking, riding, gatherings. Planting installation methods and detailing. Site illumination. Technical specification.			
500TKZ4	Landscape Architecture IV	ZK	2
"Public Space – Typology The purpose of the course is to acquaint students with the principles of creating public spaces, its main typological forms and their specifics. Emphasis will be placed on potential users of these spaces, ergonomics, non-discriminatory accessibility, orientation, microclimate, lighting, greenery, furniture and its location, artwork, etc. In addition to traditional types of spaces such as squares, streets, gaps, embankments, passages, markets, parks and gardens will also be discussed thematically focused spaces such as cemeteries, monuments, representational spaces, sports grounds, amphitheatres, etc. It will include a presentation of current trends and examples from around the world. The course will end with a detailed analysis and critique of the concept of form and function of the selected project and material treatise."			

500LAT1	Landscape Architecture Theory I	ZK	2
The course gives the students an overview of theoretical reflection of designing landscapes and gardens in historical perspective. The focus is on the emancipation of landscape architecture theory in the second half of the 20th century and contemporary positions. Landscape architecture is discussed within a wider framework of cultural practice, with excursions into social sciences, philosophy, art and ecology. Key themes: landscape as language and representation; landscape and gender; landscape as a cultural product; landscape as a public space; landscape and urbanism; landscape, ecology and infrastructure. The course combines lectures with more interactive approach, the students are required in the final sessions to prepare their own presentation and submit an essay on chosen theme.			
500LCM	Landscape Construction and Management	Z,ZK	3
The content of the subject is to acquaint the student with the basics of economics and management, which the student will be able to apply in landscape architecture practice.			
500LP1	Landscape Planning I	KZ	2
500OP	Product Ecology	ZK	2
Learning outcomes of the course unit. The aim of the course is to provide students with a holistic overview of the interaction between human activities and the environment. It turns out that evaluating the acceptability of individual products only based on the environmental impacts of one of their stages, e.g. waste disposal or energy consumption, is inadequate and often misleading. In this course the students will be acquainted with the essence of the main environmental categories of impacts: global warming and climate change, loss of stratospheric ozone, the formation of photooxidants, acidification, eutrophication, ecotoxicity and persistent toxicity, depletion of raw materials, reduction of biodiversity. A method of expressing contributions from different human activities to these categories of environmental impacts will be presented and will show how the future environmental impacts of products can be reduced at the design stage.			
500TZI2	Technical Infrastructure II - Urban Utilities	Z,ZK	3
Service systems form the technical infrastructure of settlements and urbanised space. They supply by mass and energy and carry out their transport as well as the transmission of information. They also remove wastes and ensure their recycling and final disposal. In addition, the energy systems are enriched by alternative resources of energy and the principles of sustainable development are discussed.			
500UP1	Urban Planning I	ZK	3
In the course of Urban Planning I, we teach students on how the cities were planned from ancient times to the present and how discipline itself have evolved in the course of time. By using the real examples, we describe urban planning as a complex process with numerous feedbacks that evolves in time and involves various actors with different values and interests and resources. The course presents general principles and concepts of European spatial planning and planning system in the Czech Republic providing students with practical insight into relevant planning documents, legislation and institutions. Special lectures focus on actual topics: planning of urban ecosystems and participatory planning. At the end of the semester students will be evaluated based on the presentation and discussion of their seminar work via TEAMS or in classroom. In their seminar works students will analyse and critically evaluate selected case of planning process in one of the following domains: Urban mobility, Housing, Public services, Ecosystems, Economic activities, Cultural heritage.			
500U4	Urbanism IV - Design	Z,ZK	3
Students will acquire information concerning urban design, morphology, topography and typology of settlement structures, relations between mass, space and activities in settlements, forms and structure of public space, infrastructure influences on an urban fabric, new tendencies. What are the questions of today that require the search for answers? Next theme is suburbanisation and different types of urbanistic low-rise formations and buildings, inclusive the problem of "urban sprawl". The last theme is countryside, villages and settlements in open space, historical and regional points of view, the nature of landscape frame within cadastre limits. Changes (transformations) within the countryside during the last century, namely in agriculture technologies, housing, transportation etc. Within the whole subject theoretical background will be combined with practical field studies.			

Name of the block: Elective courses

Minimal number of credits of the block: 20

The role of the block: V

Code of the group: ELECTIVE NKAЕ

Name of the group: Elective courses NKAЕ

Requirement credits in the group: In this group you have to gain at least 20 credits

Requirement courses in the group:

Credits in the group: 20

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) <i>Tutors, authors and guarantors (gar.)</i>	Completion	Credits	Scope	Semester	Role
500VTD6	Art Practice VI <i>Tereza Melenová Tereza Melenová</i>	KZ	2	2C	Z	v
500NS5	Building Theory V <i>Karla Kuldová, Ondřej Tuček, Jaromír Hainc, Michal Kohout, David Tichý, Petr Hlaváček, Pavla Melková, Filip Tittl, Noor Marji Michal Kohout Michal Kohout (Gar.)</i>	KZ	2	1P+1C	Z	v
500CAD3	Computer Aided Design III <i>Šimon Prokop, Henri Hubertus Achten, Ivana Vinšová Šimon Prokop (Gar.)</i>	KZ	2	0P+2C		v
500CAD4	Computer Aided Design IV <i>Šimon Prokop, Henri Hubertus Achten Henri Hubertus Achten (Gar.)</i>	KZ	2	0P+2C		v
500PG1	Computer Graphics I <i>Stanislav Moravec, Kateřina Sýsová Dana Matějovská (Gar.)</i>	KZ	2	0P+2C	Z,L	v
500SAT	Contemporary Architecture <i>Vladimír Šlapeta</i>	ZK	2	2P+0C	L	v
500ATVL	Design Studio - Elective	KZ	4	0P+4C	L	v
500EKL3	Ecology III - Social Ecology <i>Petr Klápště Petr Klápště Petr Klápště (Gar.)</i>	KZ	2	2P+0C	Z	v
500DU3	History of Art III <i>Jana Tichá, Hubert Kamil Guzik Jana Tichá</i>	KZ	2	2P	L	v
500DA5	History of Architecture Modern Architecture <i>Vladimír Šlapeta Petr Vorlík (Gar.)</i>	ZK	2	2P+0C	Z	v

500CAD5	Spatial Analysis <i>Daniel Franke, Jiří tyroky Daniel Franke Daniel Franke (Gar.)</i>	KZ	2	1P+1C	Z	v
500UP2	Urban Planning II <i>Jakub Vorel Jakub Vorel Jakub Vorel (Gar.)</i>	KZ	2	1P+1C	L	v
500U21	Urbanism II - History <i>Lenka Burgerová Lenka Burgerová Lenka Burgerová (Gar.)</i>	Z,ZK	2	2P+0C	L,Z	v
500U31	Urbanism III - Theory <i>Irena Fialová, Kateřina Fialová Irena Fialová Irena Fialová (Gar.)</i>	KZ	2	1P+1C	Z	v

Characteristics of the courses of this group of Study Plan: Code=ELECTIVE NKA E Name=Elective courses NKA E

500VTD6	Art Practice VI	KZ	2
500NS5	Building Theory V	KZ	2
TYPE is the fundamental compositional element of the build environment: the most effective and comprehensible answer to a common task and situation. At the same time, it is important to understand that every assignment and place in space and time contains a potential for a certain degree of uniqueness. To bring forth this potential means not only to optimize the design in practical terms, but it also allows a better orientation of a user. Varying types is thus not only the most effective designing method, but it also results in overall comprehensibility of the build environment: TYPE IS COOL! The aim of the course is to learn how to design environment which is effective, understandable and yet stimulating through the appropriate use of the TYPICAL and ATYPICAL. The course consists of series of six lectures and six seminars coming in fortnight pairs touching on different themes connected to systematization of the build environment.			
500CAD3	Computer Aided Design III	KZ	2
"CAD III is a course where you get to know the basics of scripting. The students will learn the basics of algorithmic modeling in the Grasshopper a graphical scripting environment. They will learn to create their own set of digital tools for efficient work and discover the advantages of this modeling approach compared to traditional „manual“ methods. Alongside small recap exercises the basic principles of generative and parametric modeling are illustrated on examples during the classes. Each demonstration is discussed in the context of a design issue, e.g. a skyscraper, urban planning, optimization of structures, facade components and others. Some lessons then focus on digital fabrication problems related to 3D printing, CNC milling or the effective use of laser cutting"			
500CAD4	Computer Aided Design IV	KZ	2
The CAD IV-Scripting is meant to serve as introductory course for generative/algorithmic/parametric/computational design. Students already advanced in such topics can pursue more complex projects within individual consultations. New students will learn the basics of algorithmic modeling in the Grasshopper a graphical scripting environment. They will learn to create their own set of digital tools for efficient work and discover the advantages of this modeling approach compared to traditional „manual“ methods. Alongside small recap exercises the basic principles of generative and parametric modeling are illustrated on examples during the classes. Each demonstration is discussed in the context of a design issue, e.g. a skyscraper, urban planning, optimization of structures, facade components and others. Some lessons then focus on digital fabrication problems related to 3D printing, CNC milling or the effective use of laser cutting.			
500PG1	Computer Graphics I	KZ	2
In the Computer Graphics course students will learn to work with Photoshop, Illustrator, and InDesign. The graphic content of the work will be linked to their experience of Prague. The final goal of the work is to make a collaboratively authored book with the students' personal impression of Prague in the form of a comics. Students will learn image processing, typography, editing, and layouts in the various software.			
500SAT	Contemporary Architecture	ZK	2
Lectures explaining the main streams of architecture development of the post-WW II period of the 20th century in Czechoslovakia and Central Europe with the emphasis on the issues of globalisation, contemporary societies and cities. The lectures are accompanied with excursions in Prague, Brno, Hradec Králové etc. Contents: From CIAM to Stalinism and back. Czech Architecture after the WWII. German Architecture after the WWII. Finnish Architecture. Austrian Architecture. Alvar Aalto. Hans Scharoun. Socialist housing after WWII. Karel Hubáček and the SIAL Group. Czech Architecture after 1989. Young generation in the Czech Republic.			
500ATVL	Design Studio - Elective	KZ	4
500EKL3	Ecology III - Social Ecology	KZ	2
Social Ecology: The subject deals with the relationship of man and the environment in landscape and settlements. It acquaints students with selected methods of socio-ecological research and participation of citizens in the formation of the rural environment, the city and its socio-spatial structure. The theoretical part of the subject is based on concrete practical examples, which are processed by the students and presented during the semester.			
500DU3	History of Art III	KZ	2
Art Outside Institutions? Site-specific art, installation, land-art, sculpture and environmental art since 1960s till present day. The focus of the course is development of visual and plastic arts after the conceptual turn and resulting new forms and content of art work, as well as new media and their impact on visual arts and architecture. The course is divided into two blocks: 1.– 6.: The first block is aimed at the significance of cultural institutions for the origins of fine art and architecture and for the reproduction of cultural capital. It also deals with exhibition strategies of museums and galleries (particularly in the context of architecture). 7. – 13.: Artistic expressions, that often have stepped out of the institutionalised art world from the 1960s up to present, will be presented within the framework of the second block. Attention will be paid primarily to Euro-American and Czechoslovak examples of site-specific, land-art, sculpture and spatial creation.			
500DA5	History of Architecture Modern Architecture	ZK	2
This course explores the tradition of modern architecture of 20th century in the Czech Republic and Central Europe with international interactions and influences. The lectures are accompanied with excursions in Prague, Brno, Hradec Králové etc. Contents: Czech Jugendstil and early modernism. Czech Cubism. The National Style and the Dutch influence. Josef Goštaut. Kamil Roškot. Adolf Loos. Josip Plešnik. Czech Functionalism. Czechoslovak Werkbund and the Baba housing exhibition. Interactions with Bauhaus and Le Corbusier. Prague modern urban culture. Brno - a city of Modern Architecture. Zlín - the Bata industrial city			
500CAD5	Spatial Analysis	KZ	2
Planning is vastly dependent on the creation, gathering and evaluation of spatial data and information. The course is focused on introducing students to the information technologies used in the planning process. The main topics are an introduction to the leading Geographic Information System (GIS) solutions, principles of GIS functionality, GIS data and data models and, specifically, the basics of the spatial analyses used for urban planning. During the course, students elaborate the seminar paper targeted to GIS analysis or GIS data processing in relation with a selected urban planning problem. The course is led with an accent on the practical training in working with GIS software in a computer lab. The software used in this course is ESRI ArcGIS Desktop			
500UP2	Urban Planning II	KZ	2
Principles of urban planning as an intentional way of influencing urban change. Overview of the discipline of planning and its role in society. Methodology of plan-making. Opening session. Man and the environment. Planning, the environment and designing. Project will be discussed. Planning methodology I. Urban composition. Mental map. Planning methodology II. Surveys for planning. Land-use. Planning methodology III. Land-use plan, legal limits, plan-making. Deadline: survey drafts. Instruction for Constraints and Potentials Map. Topical lecture – a case of development. Project site analysis. SWOT analysis. Identification of issues for Strategy. Tutoring, discussion of strategies. Mock hearing of strategies. Local planning. Planning and zoning regulations. Final presentation.			
500U21	Urbanism II - History	Z,ZK	2
The obligatory subject concentrates on the basis for understanding of problems of historical experience followed by topics concerning perception, evaluation and use of urban space, concept and compositional problems in issues concerning various scales of urban areas. Practical examples concentrate on the analysis of morphology of selected urban spaces. Passing of this subject is a condition for understanding basic principles of urban design.			

500U31	Urbanism III - Theory	KZ	2
The course introduces the student to the most important urban theories and ways of thinking about the city from the 19th century to the present. In lectures and seminars, the student is led to think critically in order to be able to analyze, evaluate, compare and recognize the practical effects of these theories on the development of European cities.			

List of courses of this pass:

Code	Name of the course	Completion	Credits
500AT4	Design Studio IV - Urban Landscape Project	KZ	13
A comprehensive landscape and urban plan of a larger territorial unit. The studio will focus mainly on the landscape or public space, control mechanisms for its creation and a long-term perspective. The project will include a problem map expressing potential and limiting factors, topographic analyzes, historical studies and cultural data, demography, hydrology, geology, climate (prevailing winds, shading control, etc.) analysis of existing vegetation and transport. The project will address the material layout of buildings, small architecture and engineering structures, vegetation and its skeletal species composition, all forms of transport, networks, or phasing. The project will take into account the principles of the so-called green infrastructure and the territorial system of ecological stability.			
500AT5	Design Studio V – Landscape Project	KZ	13
A task with a clear program or conceptual work. Participation in the formulation of the task and the program is assumed. Unlike Design Studio IV. There is an emphasis on detailed task processing. Scale 1: 500 and smaller. The scale of the parts or details must be adequate for the subject shown (1: 200.1: 50.1: 20, etc.) The course Design Studio V in the form of studio teaching offers students the opportunity to further develop their own creative skills by applying them to other specific thematic assignments from the leading studio in the form of designing a more complex product, object or spatial formation. The design must already include a synthesis of functional visual and technical components that give the resulting design the value of design. Students work on this topic throughout the semester, resulting in their work as a studio semester project, which at the end of the semester is publicly presented within the Faculty of Architecture and is graded by graded assessment.			
500AT6	Design Studio VI - Landscape Comprehensive Project	KZ	14
The course Design Studio VI in the form of studio teaching follows the Design Studio IV and Design Studio V, with the same form of instruction, i.e. a studio semestral project, and develops the ability of students to create independently on a topic given by the head of the studio. Compared to the previous studios, the Design Studio VI is specific because of its theme.			
500ATVL	Desing Studio - Elective	KZ	4
500CAD3	Computer Aided Design III	KZ	2
"CAD III is a course where you get to know the basics of scripting. The students will learn the basics of algorithmic modeling in the Grasshopper a graphical scripting environment. They will learn to create their own set of digital tools for efficient work and discover the advantages of this modeling approach compared to traditional „manual“ methods. Alongside small recap exercises the basic principles of generative and parametric modeling are illustrated on examples during the classes. Each demonstration is discussed in the context of a design issue, e.g. a skyscraper, urban planning, optimization of structures, facade components and others. Some lessons then focus on digital fabrication problems related to 3D printing, CNC milling or the effective use of laser cutting"			
500CAD4	Computer Aided Design IV	KZ	2
The CAD IV-Scripting is meant to serve as introductory course for generative/algorithmic/parametric/computational design. Students already advanced in such topics can pursue more complex projects within individual consultations. New students will learn the basics of algorithmic modeling in the Grasshopper a graphical scripting environment. They will learn to create their own set of digital tools for efficient work and discover the advantages of this modeling approach compared to traditional „manual“ methods. Alongside small recap exercises the basic principles of generative and parametric modeling are illustrated on examples during the classes. Each demonstration is discussed in the context of a design issue, e.g. a skyscraper, urban planning, optimization of structures, facade components and others. Some lessons then focus on digital fabrication problems related to 3D printing, CNC milling or the effective use of laser cutting.			
500CAD5	Spatial Analysis	KZ	2
Planning is vastly dependent on the creation, gathering and evaluation of spatial data and information. The course is focused on introducing students to the information technologies used in the planning process. The main topics are an introduction to the leading Geographic Information System (GIS) solutions, principles of GIS functionality, GIS data and data models and, specifically, the basics of the spatial analyses used for urban planning. During the course, students elaborate the seminar paper targeted to GIS analysis or GIS data processing in relation with a selected urban planning problem. The course is led with an accent on the practical training in working with GIS software in a computer lab. The software used in this course is ESRI ArcGIS Desktop			
500CL1	Cultural Landscape I	Z,ZK	3
The aim of the course is to clarify that the cultural characteristics of the landscape, together with the natural integral part of its identity, and to show how human activity in the landscape manifested itself in the past and how traces of these processes are reflected in the current form of the landscape. The concept of teaching is based on acquaintance with the forms of important historical stages of the cultural landscape and with the processes that shaped them. This approach creates the preconditions for understanding the original context to which the phenomena whose residues are part of today's landscape image belonged. Students will be guided to be able to identify the cultural values of the landscape and to study the conditions that condition the relative stability or transience of phenomena in the landscape and try to understand them. It is assumed that they will apply this knowledge to the design of landscaping. The course also introduces the student to the specifics of a multidisciplinary approach to the identification of cultural values of the landscape and to cooperation with relevant experts in related fields. Excursions will be an integral part of teaching. Depending on the nature of the topic studied, experts from other related disciplines (nature protection, forestry and water management, archeology, botany, geology, etc.) will be involved in field teaching.			
500DA5	History of Architecture Modern Architecture	ZK	2
This course explores the tradition of modern architecture of 20th century in the Czech Republic and Central Europe with international interactions and influences. The lectures are accompanied with excursions in Prague, Brno, Hradec Králové etc. Contents: Czech Jugendstil and early modernism. Czech Cubism. The National Style and the Dutch influence. Josef Go ár. Kamil Roškot. Adolf Loos. Josip Ple nik. Czech Functionalism. Czechoslovak Werkbund and the Baba housing exhibition. Interactions with Bauhaus and Le Corbusier. Prague modern urban culture. Brno - a city of Modern Architecture. Zlín - the Ba a industrial city			
500DPL	Diploma Project	Z	28
The diploma project is the final work which shows the ability of the student to cope independently and comprehensively with an assignment, from its concept, through its design until its presentation. The assignment may be from the domains of architecture, urbanism or landscape architecture. The diploma project examines the theoretical knowledge base of the student, his ability to analyse complex problems, to produce high quality design solutions, and prove the ability to present them comprehensively. The result of the diploma project is presented in a recommended A3 portfolio, which contains drawings, diagrams and a theoretical text written by the student. Often the assignment specifies that the diploma project should be supported by a 3D model. Exhibition posters are printed for the purpose of exhibiting the diploma project in accordance with the rules laid down by the dean. It is also possible to receive a theoretical assignment as a diploma project. In this case, it is necessary to follow scientific work standards in terms of the content, sources, method and form. Detailed information about the course and the required outcomes are provided in Dean's Directive SZZ and in other documents published on the faculty's website in the given semester.			

500DSL	Diploma Seminar	KZ	2
The diploma seminar represents the initial step leading to the diploma project, which is elaborated in the following semester. The purpose of the diploma seminar is to analyse the wider scope of the topic on which the award of the diploma thesis will be based. By working on the diploma seminar the student will be able to gain insight into professional issues connected with his or her future diploma project in the form of a research project, within which the diploma thesis will be developed. The diploma seminar precedes the diploma project and can be processed in the following variants: • Analysis of the territory of the future diploma project - in which case the student should not be acquainted with the specific program of the diploma project. • Search for the program and typology of the future diploma project - in which case the student should not know the specific place of the diploma project. • Optional other variants are possible in agreement with the studio tutor and the dean approval.			
500DU3	History of Art III	KZ	2
Art Outside Institutions? Site-specific art, installation, land-art, sculpture and environmental art since 1960s till present day. The focus of the course is development of visual and plastic arts after the conceptual turn and resulting new forms and content of art work, as well as new media and their impact on visual arts and architecture. The course is divided into two blocks: 1.– 6.: The first block is aimed at the significance of cultural institutions for the origins of fine art and architecture and for the reproduction of cultural capital. It also deals with exhibition strategies of museums and galleries (particularly in the context of architecture). 7. – 13.: Artistic expressions, that often have stepped out of the institutionalised art world from the 1960s up to present, will be presented within the framework of the second block. Attention will be paid primarily to Euro-American and Czechoslovak examples of site-specific, land-art, sculpture and spatial creation.			
500EBE	Economy of Built Environment	Z,ZK	3
500EKL2	Ecology II	KZ	2
Ecological problems become limiting factors in today's world. Concepts such as ecology, environment, natural resources, ecological crisis, environmental pillar of sustainable development should become specific and graspable for the graduate. The course is divided into blocks: Fundamentals of General Ecology, Natural Resources – Characteristics, Use, Damage, Protection, Basics of Landscape Ecology and Nature Conservation, Use of Environmental Knowledge in Designing Buildings and Towns (Building Biology, Ecosystem Approach) to the environment.			
500EKL3	Ecology III - Social Ecology	KZ	2
Social Ecology: The subject deals with the relationship of man and the environment in landscape and settlements. It acquaints students with selected methods of socio-ecological research and participation of citizens in the formation of the rural environment, the city and its socio-spatial structure. The theoretical part of the subject is based on concrete practical examples, which are processed by the students and present them during the semester.			
500LAT1	Landscape Architecture Theory I	ZK	2
The course gives the students an overview of theoretical reflection of designing landscapes and gardens in historical perspective. The focus is on the emancipation of landscape architecture theory in the second half of the 20th century and contemporary positions. Landscape architecture is discussed within a wider framework of cultural practice, with excursions into social sciences, philosophy, art and ecology. Key themes: landscape as language and representation; landscape and gender; landscape as a cultural product; landscape as a public space; landscape and urbanism; landscape, ecology and infrastructure. The course combines lectures with more interactive approach, the students are required in the final sessions to prepare their own presentation and submit an essay on chosen theme.			
500LCM	Landscape Construction and Management	Z,ZK	3
The content of the subject is to acquaint the student with the basics of economics and management, which the student will be able to apply in landscape architecture practice.			
500LP1	Landscape Planning I	KZ	2
500NS5	Building Theory V	KZ	2
TYPE is the fundamental compositional element of the build environment: the most effective and comprehensible answer to a common task and situation. At the same time, it is important to understand that every assignment and place in space and time contains a potential for a certain degree of uniqueness. To brings forth this potential means not only to optimize the design in practical terms, but it also allows a better orientation of a user. Varying types is thus not only the most effective designing method, but it also results in overall comprehensibility of the build environment: TYPE IS COOL! The aim of the course is to learn how to design environment which is effective, understandable and yet stimulating through the appropriate use of the TYPICAL and ATYPICAL. The course consists of series of six lectures and six seminars coming in fortnight pairs touching on different themes connected to systematization of the build environment.			
500OP	Product Ecology	ZK	2
Learning outcomes of the course unit. The aim of the course is to provide students with a holistic overview of the interaction between human activities and the environment. It turns out that evaluating the acceptability of individual products only based on the environmental impacts of one of their stages, e.g. waste disposal or energy consumption, is inadequate and often misleading. In this course the students will be acquainted with the essence of the main environmental categories of impacts: global warming and climate change, loss of stratospheric ozone, the formation of photooxidants, acidification, eutrophication, ecotoxicity and persistent toxicity, depletion of raw materials, reduction of biodiversity. A method of expressing contributions from different human activities to these categories of environmental impacts will be presented and will show how the future environmental impacts of products can be reduced at the design stage.			
500PG1	Computer Graphics I	KZ	2
In the Computer Graphics course students will learn to work with Photoshop, Illustrator, and InDesign. The graphic content of the work will be linked to their experience of Prague. The final goal of the work is to make a collaboratively authored book with the students' personal impression of Prague in the form of a comics. Students will learn image processing, typography, editing, and layouts in the various software.			
500SAT	Contemporary Architecture	ZK	2
Lectures explaining the main streams of architecture development of the post-WW II period of the 20th century in Czechoslovakia and Central Europe with the emphasis on the issues of globalisation, contemporary societies and cities. The lectures are accompanied with excursions in Prague, Brno, Hradec Králové etc. Contents: From CIAM to Stalinism and back. Czech Architecture after the WWII. German Architecture after the WWII. Finnish Architecture. Austrian Architecture. Alvar Aalto. Hans Scharoun. Socialist housing after WWII. Karel Hubá ek and the SIAL Group. Czech Architecture after 1989. Young generation in the Czech Republic.			
500TKZ3	Landscape Architecture III - Technology	KZ	2
Introduction to landform and landform representation. Perception and scale of the landscape experience. Landform modelling. Landform manipulation. Surface water management. Surface water management and soil erosion sedimentation control. Landscape structures; pavement surfaces, design, detailing and performance. Steps, ramps and railings; design and detailing. Walls and slope structures; engineering, design and detailing. Site structures for occupancy; sitting, walking, riding, gatherings. Planting installation methods and detailing. Site illumination. Technical specification.			
500TKZ4	Landscape Architecture IV	ZK	2
"Public Space – Typology The purpose of the course is to acquaint students with the principles of creating public spaces, its main typological forms and their specifics. Emphasis will be placed on potential users of these spaces, ergonomics, non-discriminatory accessibility, orientation, microclimate, lighting, greenery, furniture and its location, artwork, etc. In addition to traditional types of spaces such as squares, streets, gaps, embankments, passages, markets, parks and gardens will also be discussed thematically focused spaces such as cemeteries, monuments, representational spaces, sports grounds, amphitheatres, etc. It will include a presentation of current trends and examples from around the world. The course will end with a detailed analysis and critique of the concept of form and function of the selected project and material treatise."			
500TZI2	Technical Infrastructure II - Urban Utilities	Z,ZK	3
Service systems form the technical infrastructure of settlements and urbanised space. They supply by mass and energy and carry out their transport as well as the transmission of information. They also remove wastes and ensure their recycling and final disposal. In addition, the energy systems are enriched by alternative resources of energy and the principles of sustainable development are discussed.			

500U21	Urbanism II - History	Z,ZK	2
The obligatory subject concentrates on the basis for understanding of problems of historical experience followed by topics concerning perception, evaluation and use of urban space, concept and compositional problems in issues concerning various scales of urban areas. Practical examples concentrate on the analysis of morphology of selected urban spaces. Passing of this subject is a condition for understanding basic principles of urban design.			
500U31	Urbanism III - Theory	KZ	2
The course introduces the student to the most important urban theories and ways of thinking about the city from the 19th century to the present. In lectures and seminars, the student is led to think critically in order to be able to analyze, evaluate, compare and recognize the practical effects of these theories on the development of European cities.			
500U4	Urbanism IV - Design	Z,ZK	3
Students will acquire information concerning urban design, morphology, topography and typology of settlement structures, relations between mass, space and activities in settlements, forms and structure of public space, infrastructure influences on an urban fabric, new tendencies. What are the questions of today that require the search for answers? Next theme is suburbanisation and different types of urbanistic low-rise formations and buildings, inclusive the problem of "urban sprawl". The last theme is countryside, villages and settlements in open space, historical and regional points of view, the nature of landscape frame within cadastre limits. Changes (transformations) within the countryside during the last century, namely in agriculture technologies, housing, transportation etc. Within the whole subject theoretical background will be combined with practical field studies.			
500UP1	Urban Planning I	ZK	3
In the course of Urban Planning I, we teach students on how the cities were planned from ancient times to the present and how discipline itself have evolved in the course of time. By using the real examples, we describe urban planning as a complex process with numerous feedbacks that evolves in time and involves various actors with different values and interests and resources. The course presents general principles and concepts of European spatial planning and planning system in the Czech Republic providing students with practical insight into relevant planning documents, legislation and institutions. Special lectures focus on actual topics: planning of urban ecosystems and participatory planning. At the end of the semester students will be evaluated based on the presentation and discussion of their seminar work via TEAMS or in classroom. In their seminar works students will analyse and critically evaluate selected case of planning process in one of the following domains: Urban mobility, Housing, Public services, Ecosystems, Economic activities, Cultural heritage.			
500UP2	Urban Planning II	KZ	2
Principles of urban planning as an intentional way of influencing urban change. Overview of the discipline of planning and its role in society. Methodology of plan-making. Opening session. Man and the environment. Planning, the environment and designing. Project will be discussed. Planning methodology I. Urban composition. Mental map. Planning methodology II. Surveys for planning. Land-use. Planning methodology III. Land-use plan, legal limits, plan-making. Deadline: survey drafts. Instruction for Constraints and Potentials Map. Topical lecture – a case of development. Project site analysis. SWOT analysis. Identification of issues for Strategy. Tutoring, discussion of strategies. Mock hearing of strategies. Local planning. Planning and zoning regulations. Final presentation.			
500VTD6	Art Practice VI	KZ	2

For updated information see <http://bilakniha.cvut.cz/en/FF.html>

Generated: day 2024-05-20, time 00:51.