## 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 NKAE Name of the group: Design studios NKAE

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) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
500AT4	Design Studio IV - Urban Landscape Project Till Rehwaldt	KZ	13	0P+8C		Z
500AT5	Design Studio V Landscape Project Vladimír Sitta Vladimír Sitta (Gar.)	KZ	13	0P+8C		Z
500AT6	Design Studio VI - Landscape Comprehensive Project Till Rehwaldt	KZ	14	0P+8C		Z
500DPL	Diploma Project	Z	28	0P+28C	L	Z
500DSL	Diploma Seminar Till Rehwaldt	KZ	2	0P+2C	Z	Z

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

500AT4	Design Studio IV - Urban Landscape Project	KZ	13
A comprehensive lands	cape and urban plan of a larger territorial unit. The studio will focus mainly on the landscape or public space, control mechanis	ms for its creation	and a long-term
perspective. The project	t will include a problem map expressing potential and limiting factors, topographic analyzes, historical studies and cultural data	ı, demography, hy	drology, geology,
climate (prevailing wind	s, shading control, etc.) analysis of existing vegetation and transport. The project will address the material layout of buildings, s	small architecture	and engineering
structures, vegetation a	nd its skeletal species composition, all forms of transport, networks, or phasing. The project will take into account the principles o	of the so-called gre	een infrastructure
and the territorial syste	m 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	s 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	e 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	m the leading st	tudio 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

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 Deans Directive SZZ and in other documents published on the facultys website in the given semester.

500DSL Diploma Seminar

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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 NKAE

Name of the group: Compulsory courses NKAE

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:

More ou me (	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) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
500CL1	Cultural Landscape I Markéta Šantr ková, Milena Hauserová Markéta Šantr ková	Z,ZK	3	2P+1C	Z	Z
500EKL2	Ecology II Petr Klápšt	KZ	2	2P+0C	L	Z
500EBE	Economy of Built Environment	Z,ZK	3	2P+1C	L	Z
500TKZ3	Landscape Architecture III - Technology	KZ	2	2P+0C	L	Z
500TKZ4	Landscape Architecture IV Ivan Plicka Ivan Plicka (Gar.)	ZK	2	0P+2C	Z	Z
500LAT1	Landscape Architecture Theory I Jana Tichá Jana Tichá Jana Tichá (Gar.)	ZK	2	2P+0C	Z	Z
500LCM	Landscape Construction and Management  Dana M š anová, Veronika Sojková, Pavel Borusík, Lenka Prokopová  Prokopová	Z,ZK	3	2P+1C	Z	Z
500LP1	Landscape Planning I Eva N mcová, Klára Salzmann Klára Salzmann (Gar.)	KZ	2	2P+0C	Z	Z
500OP	Product Ecology	ZK	2	2P	L	Z
500TZI2	Technical Infrastructure II - Urban Utilities Lenka Prokopová, František Novotný, Daniela Bošová, Zuzana Vyoralová, Ond ej Horák <b>Lenka Prokopová</b> Zuzana Vyoralová (Gar.)	Z,ZK	3	2P+1C	Z	Z
500UP1	Urban Planning I Petr Klápšt , Vít ezá , Jakub Vorel, Veronika Šindlerová Veronika Šindlerová Jakub Vorel (Gar.)	ZK	3	2P+1C	Z	Z
500U4	Urbanism IV - Design	Z,ZK	3	2P+1C	L	Z

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

	500CL1	Cultural Landscape I	Z,ZK	3
	The course is introduction	in to the cultural landscape. The general issues and problems of the cultural landscape will be demonstrated on the examples i	from the Czech Re	epublic. Students
ŀ	learn to identify the cultu	ral features of the landscape and could present this skills on the examples from their countries.		
	500EKL2	Ecology II	KZ	2
1	Ecological problems bed	ome limiting factors in today's world. Concepts such as ecology, environment, natural resources, ecological crisis, environment	al pillar of sustaina	ble development
ı	should become specific	and graspable for the graduate. The course is divided into blocks: Fundamentals of General Ecology, Natural Resources Ch	aracteristics, Use,	, Damage,
- 1	Ecological problems bed	ome limiting factors in today's world. Concepts such as ecology, environment, natural resources, ecological crisis, environment	•	•

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

The central theme of the course is the understanding of landscape, urban structure, urban greenery and public space - natural and landscape elements of the residential environment of settlements - in the context of technical, technological and architectural solutions. Using examples of specific locations and directly in the field, the course will provide students with an overview of the complex perception of the urban and landscape environment, including an introduction to urban, architectural, technical and technological principles in the work of an architect, with the aim of shaping the utility and residential aspects of public space from an aesthetic, functional and developmental point of view.

500TK74	Landscape Architecture IV	7K	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

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

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 ΚZ

2

Theoretical starting points and principles of landscape planning processes. The subject supports a comprehensive view of the problems in the landscape and in settlements within the framework of climate change from a European perspective. It defines the principles of creating infrastructure in the territory as a fundamental element of the sustainability of the landscape.

500OP **Product Ecology** 

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

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

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.

Urbanism IV - Design

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 NKAE

Name of the group: Elective courses NKAE

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:

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Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
500VTD6	Art Practice VI Gabriela Nováková Gabriela Nováková	KZ	2	2C	Z	V
500NS5	Building Theory V Ond ej Tu ek, Michal Kohout, David Tichý, Pavla Melková, Filip Tittl, Noor Marji Michal Kohout Michal Kohout (Gar.)	KZ	2	1P+1C	Z	V
500CAD3	Computer Aided Design III Šimon Prokop, Henri Hubertus Achten, Ivana Vinšová Henri Hubertus Achten Ivana Vinšová (Gar.)	KZ	2	0P+2C		V
500CAD4	Computer Aided Design IV Šimon Prokop, Henri Hubertus Achten Henri Hubertus Achten Henri Hubertus Achten (Gar.)	KZ	2	0P+2C	L	V
500PG1	Computer Graphics I Stanislav Moravec, Kate ina Sýsová Stanislav Moravec Kate ina Sýsová (Gar.)	KZ	2	0P+2C	Z,L	V
500SAT	Contemporary Architecture	ZK	2	2P+0C	L	V
500ATVL	Desing Studio - Elective Till Rehwaldt	KZ	4	0P+4C	L	V
500EKL3	Ecology III - Social Ecology Petr Klápšt Petr Klápšt Petr Klápšt (Gar.)	KZ	2	2P+0C	Z	V

* 31 (0.11) 11 1 5		History of Art III	V7	2	2P		.,
500DU3		Jana Ťichá	KZ	2	2P	L	V
500DA5		History of Architecture Modern Architecture Vladimír Šlapeta Petr Vorlík (Gar.)	ZK	2	2P+0C	Z	V
500CAD5		Spatial Informatics  Daniel Franke, Ji í tyroký Daniel Franke Daniel Franke (Gar.)	KZ	2	1P+1C	Z	V
500UP2		Urban Planning II Jakub Vorel	KZ	2	1P+1C	L	V
500U21		Urbanism II - History	Z,ZK	2	2P+0C	L,Z	V
500U31		Urbanism III - Theory Irena Fialová, Kate ina echová <b>Irena Fialová</b> Irena Fialová (Gar.)	KZ	2	1P+1C	Z	V
Characteristics	of the	courses of this group of Study Plan: Code=ELECTIVE NKAE I	Name=Electiv	e cours	es NKAE		
500VTD6	Art	Practice VI				ΚZ	2
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of the build environments		mputer Aided Design III				KZ	2
They will learn to createcap exercises the b	ate their asic prir er, urba	ou get to know the basics of scripting. The students will learn the basics of algorithmic own set of digital tools for efficient work and discover the advantages of this modeling nciples of generative and parametric modeling are illustrated on examples during the in planning, optimization of structures, facade components and others. Some lessons use of laser cutting.	approach compa classes. Each der	red to tradit nonstration	ional manual is discussed	methods. A	longside sm ext of a desi
500CAD4	1 -	mputer Aided Design IV				KZ	2
-	of digita	al tools, enabling them to design architectural structures and systems more efficiently a					
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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.

ΚZ

2

used in this course is ESRI ArcGIS Desktop

Planning and zoning regulations. Final presentation.

Urban Planning II

500UP2

500U21 Urbanism II - History 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. Urbanism III - Theory Sustainable development is the governing paradigm of the 21st century. It has long been at the heart of most urban development debates. We are increasingly aware that providing a good quality of life is the right of even the most vulnerable social groups, as the environment directly affects their health. This paradigm shift requires a more holistic approach to urban development. The question remains, how can it be successfully implemented in practice? What kind of urban theories can we use to ensure this development? The subject introduces the student to the most important urban theories of the 20th and 21st centuries. It shows the emergence and transformation of urban development debates, theories and experiments against the background of their social and economic development. Students are guided to develop their critical thinking: to recognise, analyse, evaluate and understand the impact of urban theories on the city through concrete case studies. List of courses of this pass: Code Name of the course Completion Credits Design Studio IV - Urban Landscape Project 500AT4 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 K7 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.

Design Studio VI - Landscape Comprehensive Project 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 500CAD3 Computer Aided Design III "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

The CAD4-Scripting course is intended for students who want to learn how to model algorithmically, rather than merely operate traditional CAD tools through manual repetitive clicking. It introduces the fundamentals of procedural and generative modeling in the visual scripting environment Grasshopper. The aim of the course is to equip students with the ability to develop their own set of digital tools, enabling them to design architectural structures and systems more efficiently and flexibly. Instruction is conducted primarily through dialogue, with a strong emphasis on active collaboration. Core principles are derived together with students, fostering deeper understanding and greater independence in the design process. Each session is built around a specific design challenge (e.g. skyscraper design, riverside urbanism, structural optimization, façade components), and some assignments also address digital fabrication methods such as 3D printing, CNC milling, and laser cutting. The course is primarily intended for beginners in the field of parametric and generative design. However, for advanced students who have already completed CAD 3 Scripting, an individual plan is available. This plan focuses on an independently developed project under the guidance of the instructor. The approach builds on the proven concept of CAD 3, allowing talented students to achieve a high level of autonomy within a single semester.

500CAD5 **Spatial Informatics** 

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

500CL 1 Cultural Landscape I Z,ZK 3

The course is introduction to the cultural landscape. The general issues and problems of the cultural landscape will be demonstrated on the examples from the Czech Republic. Students learn to identify the cultural features of the landscape and could present this skills on the examples from their countries

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

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 Deans Directive SZZ and in other documents published on the facultys website in the given semester. Diploma Seminar 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 K7 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 attention will be paid primarily to Euro-American and Czech/Slovak examples of site-specific art, land-art, sculpture and installation. **500EBE** Z,ZK **Economy of Built Environment** 500EKL2 Ecology II ΚZ 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. Ecology III - Social Ecology 500EKL3 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. Landscape Architecture Theory I 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 ΚZ 2 Theoretical starting points and principles of landscape planning processes. The subject supports a comprehensive view of the problems in the landscape and in settlements within the framework of climate change from a European perspective. It defines the principles of creating infrastructure in the territory as a fundamental element of the sustainability of the landscape. 500NS5 Building Theory V ΚZ 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. Variating 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 vet 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. Computer Graphics I The course is made specially for foreign students. In the Computer Graphics course students will learn to work with current means of graphic design. Usually, each house is very different and there leader of the course introduces new topic. Programming is taught and also classical programs like Photoshop, Illustrator, and InDesign might be used. The graphic content of the work will be linked to the experience of Prague or other city in case of EUROTEQ students. The final goal of the work is to make a collaboratively authored poster, book, game, film with the students' personal impression of the City and the given topic. Students will learn image processing, typography, editing, and layouts in various softwares. 500SAT Contemporary Architecture 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. Landscape Architecture III - Technology 500TKZ3 ΚZ 2 The central theme of the course is the understanding of landscape, urban structure, urban greenery and public space - natural and landscape elements of the residential environment of settlements - in the context of technical, technological and architectural solutions. Using examples of specific locations and directly in the field, the course will provide students with an overview of the complex perception of the urban and landscape environment, including an introduction to urban, architectural, technical and technological principles in the work of an architect, with the aim of shaping the utility and residential aspects of public space from an aesthetic, functional and developmental point of view. 500TKZ4 Landscape Architecture IV "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 a	,	smission of
information. They a	lso remove wastes and ensure their recycling and final disposal. In addition, the energy systems are enriched by alternative resource	s of energy and th	ne principles
	of sustainable development are discussed.		
500U21	Urbanism II - History	Z,ZK	2
The obligatory sub	ect concentrates on the basis for understanding of problems of historical experience followed by topics concerning perception, evalu	ation and use of u	rban space,
concept and com	positional problems in issues concerning various scales of urban areas. Practical examples concentrate on the analysis of morpholog	gy of selected urba	an spaces.
	Passing of this subject is a condition for understanding basic principles of urban design.		
500U31	Urbanism III - Theory	KZ	2
Sustainable develo	pment is the governing paradigm of the 21st century. It has long been at the heart of most urban development debates. We are incre	asingly aware that	providing a
good quality of life	is the right of even the most vulnerable social groups, as the environment directly affects their health. This paradigm shift requires a m	ore holistic approa	ach to urban
development. The	question remains, how can it be successfully implemented in practice? What kind of urban theories can we use to ensure this develop	ment? The subject	ct introduces
	nost important urban theories of the 20th and 21st centuries. It shows the emergence and transformation of urban development deba		•
against the backgr	ound of their social and economic development. Students are guided to develop their critical thinking: to recognise, analyse, evaluate	and understand the	ne impact of
	urban theories on the city through concrete case studies.		
500U4	Urbanism IV - Design	Z.ZK	3
	ı	2,21	3
	re information concerning urban design, morphology, topography and typology of settlement structures, relations between mass, spac	e and activities in	settlements,
forms and structur	re information concerning urban design, morphology, topography and typology of settlement structures, relations between mass, space e of public space, infrastructure influences on an urban fabric, new tendencies. What are the questions of today that require the searc	e and activities in	settlements, ext theme is
forms and structur suburbanisation a	re information concerning urban design, morphology, topography and typology of settlement structures, relations between mass, space e of public space, infrastructure influences on an urban fabric, new tendencies. What are the questions of today that require the searced and different types of urbanistic low-rise formations and buildings, inclusive the problem of "urban sprawl". The last theme is countrysid	e and activities in th for answers? Ne le, villages and se	settlements, ext theme is ttlements in
forms and structur suburbanisation a open space, histori	re information concerning urban design, morphology, topography and typology of settlement structures, relations between mass, space e of public space, infrastructure influences on an urban fabric, new tendencies. What are the questions of today that require the search and different types of urbanistic low-rise formations and buildings, inclusive the problem of "urban sprawl". The last theme is countryside cal and regional points of view, the nature of landscape frame within cadastre limits. Changes (transformations) within the countryside of	e and activities in th for answers? No le, villages and se during the last cen	settlements, ext theme is ttlements in
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forms and structur suburbanisation a open space, histori in 500UP1	re information concerning urban design, morphology, topography and typology of settlement structures, relations between mass, space of public space, infrastructure influences on an urban fabric, new tendencies. What are the questions of today that require the search of different types of urbanistic low-rise formations and buildings, inclusive the problem of "urban sprawl". The last theme is countrysided and regional points of view, the nature of landscape frame within cadastre limits. Changes (transformations) within the countrysided agriculture technologies, housing, transportation etc. Within the whole subject theoretical background will be combined with practical Urban Planning I	e and activities in the for answers? Note, villages and seduring the last cenfield studies.  ZK	settlements, ext theme is ttlements in tury, namely
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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.

ΚZ

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