Study plan

Name of study plan: Architecture and Urbanism, in English

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch:

Program of study: Architecture and Urbanism 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: 109

The role of the block: Z

Code of the group: DESIGN STUDIOS NAUE Name of the group: Design Studios NAUE

Requirement credits in the group: In this group you have to gain 76 credits

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

Credits in the group: 76 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
500ATRN	Design Studio - Comprehensive Project Karel Maier, Vladimír Krátký, Luis Marques, Tomáš Efler, Vladimír Sitta, Václav Girsa, Radek Kola ík, Irena Šestáková, Miloš Florián, Karel Maier (Gar.)	KZ	11	0P+8C	Z	Z
500ATS1	Design Studio - Building Complex Vladimír Krátký, Luis Marques, Tomáš Efler, Vladimír Sitta, Radek Kola ík, Irena Šestáková, Henri Hubertus Achten, Petr Kordovský, Henry William Andrew Hanson Iv,	KZ	11	0P+8C		Z
500ATVZ	Design Studio - Independent Study Vladimír Krátký, Tomáš Efler, Vladimír Sitta, Irena Šestáková, Miloš Florián, Henri Hubertus Achten, Petr Kordovský, Henry William Andrew Hanson Iv, Jan Jakub Tesa,	KZ	11	0P+8C	Z	Z
500ATU	Design Studio -Urban Design Vladimír Krátký, Tomáš Efler, Irena Šestáková, Henri Hubertus Achten, Vladimír Sitta, Petr Kordovský, Henry William Andrew Hanson Iv, Winy Maas, Jan Jakub Tesa,	KZ	13	0P+8C	L	Z
500DP1	Diploma Project Vladimír Krátký, Tomáš Efler, Vladimír Sitta, Irena Šestáková, Miloš Florián, Henri Hubertus Achten, Ján Stempel, Vladimír Sitta, Petr Kordovský, Vladimír Sitta (Gar.)	Z	30	0P+20C	Z,L	Z

Characteristics of the courses of this group of Study Plan: Code=DESIGN STUDIOS NAUE Name=Design Studios NAUE

500ATRN	Design Studio - Comprehensive Project	KZ	11	
The studio can be proce	essed only in the following variant: ATRN variant 1 / construction project: Learning outcomes of the course unit is to acquaint	the student with t	he problems of	
project design. Based o	n their own architectural design developed within the previous studios, students work on the project at the level of documentati	on for the constru	ction.The project	
is processed in a spiral,	where each problem has to be verified several times, always at a higher level of knowledge of context and details. Occasion	ally, the underlyin	g assumptions	
prove unsustainable an	d need to be reassessed. Construction must always be feasible. Architectural design and technical solutions are continuous v	essels. Any chan	ge caused by	
other technical solutions must be made with respect to the architectural concept of the design and the same applies the other way round. In addition to consultations with the head of				
the studio, expert consultations are carried out by designated employees of technical departments (15122, 15123 and 15124) within the scope of the assignment, which determines				
the prescribed content of ATRN. This assignment is given to students at the start of their work.				
500ATS1	Design Studio - Building Complex	KZ	11	

The aim is to acquaint the student of the master's program with the problems of the demanding construction complex and practical use of basic terms from the typology of civil, industrial, or agricultural buildings. The assignment may have a well-defined program or the task may be formulated as a search for the potential of the specified parcel. The result of the work is a design of a set of buildings or structures with a typologically specific and complex or multifunctional program, including the link to a specific site.

a design of a set of buildings or structures with a typologically specific and complex or multifunctional program, including the link to a specific site.

500ATVZ Design Studio - Independent Study KZ 11

For the Independent Study Studio it is possible to process assignments from any of the authorised specialisations acknowledged by the Chamber of Architects: architecture, urbanism and spatial planning or landscape architecture.

500ATU	Design Studio -Urban Design	KZ	13	
Learning outcomes of	he course unit is to acquire the ability to elaborate a project with the problems of urban design in various scales, through the	practical use of kr	nowledge and	
basic concepts acquire	d in urban subjects of study. In the analytical phase of the work the student works with information about the territory. It deals	with wider relatio	nships, physical	
space and its perception	n, use of objects and areas, flows of people, materials and energies. The output is a problem map - depiction of constraints a	and potentials. In t	he conceptual	
phase, the student crea	ates a vision - use, spatial structure and granularity of the solved space - documented by a working model. The design phase	solves the position	n of the area in	
the context of the city or region, floor plans indicating spatial arrangement and use, general sections or elevation views illuminating the height solution (usually on a scale up to two				
more detailed than floor plans), visualization of the whole axonometry), several visualizations of the main public spaces usually from the normal horizon, transport solutions including				
pedestrian and public transport and traffic at rest, design implementation procedure - diagrams of individual phases. An integral part of the work is a text explaining the design principles.				
The final model is recommended.				
500DP1	Diploma Project	Z	30	

Code of the group: COMPULSORY NAUE

Name of the group: Compulsory Courses NAUE

Requirement credits in the group: In this group you have to gain 33 credits

Requirement courses in the group: In this group you have to complete at least 13 courses

Credits in the group: 33 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
500PAM2	Building Technology and Management II Daniela Bošová, Radka Navrátilová, Lenka Prokopová Radka Navrátilová (Gar.)	Z,ZK	3	2P+1C	Z	Z
500NS5	Building Theory V Michal Kohout, Karla Kuldová, Ond ej Tu ek, Jaromír Hainc, David Tichý, Petr Hlavá ek, Pavla Melková, Filip Tittl, Noor Marji Michal Kohout Michal Kohout (Gar.)	KZ	2	1P+1C	Z	Z
500EKL2	Ecology II Petr Klápšt Petr Klápšt Petr Klápšt (Gar.)	KZ	2	2P+0C	L	Z
500EKON	Economics Daniela Bošová, Václav Tatýrek Václav Tatýrek (Gar.)	Z,ZK	3	2P+1C	L	Z
500DA3-4	History of Architecture III/IV Pavel Kalina	ZK	2	2P+0C	L	Z
500TKZ1	Landscape Architecture I-Introduction Radmila Fingerová Radmila Fingerová (Gar.)	Z,ZK	3	2P+1C	Z	Z
500P	Law Daniela Bošová, Martin Pospíšil Martin Pospíšil (Gar.)	ZK	2	2P+0C	L	Z
500NK5	Load - Bearing Structures V Martin Pospíšil, Milan Holický Martin Pospíšil	KZ	2	2P+1C	L	Z
500PP2	Monument Preservation Tomáš Efler, Josef Štulc, Jitka Tomiczková	Z,ZK	3	2P+1C	L	Z
500TZI2	Technical Infrastructure II - Urban Utilities Daniela Bošová, Lenka Prokopová, Zuzana Vyoralová Lenka Prokopová Zuzana Vyoralová (Gar.)	Z,ZK	3	2P+1C	Z	Z
500UP1	Urban Planning I Karel Maier, Petr Klápšt , Jakub Vorel, Vít ezá Petr Klápšt Karel Maier (Gar.)	ZK	3	2P+1C	Z	Z
500U21	Urbanism II - History Lenka Burgerová Lenka Burgerová (Gar.)	Z,ZK	2	2P+0C	L,Z	Z
500U4	Urbanism IV - Design Lenka Burgerová, Jan Jehlík, Jana Zdráhalová Jan Jehlík Jana Zdráhalová (Gar.)	Z,ZK	3	2P+1C	L	Z

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

Building Technology and Management II

The aim of the lectures is preparation of the future architect for his role as a project designer and manager starting from the building investment programme up to the operational stage. One of the lectures' points of view is the impact of architectural and structural design on its building technology and implementation stages. The other point of view explains the opposite process - the impact of a particular building technology and staging upon the architectural and structural design. The lectures' content is the process starting with investment programme, the way how different building technology systems are being implemented, their staging and coordination during architectural and structural detailing, the conception of implementation staging already within architectural preparatory work.

500NS5 Building Theory V

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 understood that was a scientific and place in assess and time contains a particular and place in assess and time contains a particular and place in assess and time contains a particular and place in assess and time contains a particular and place in assess and time contains a particular and place in assess and time contains a particular and place in assess and time contains a particular and place in assess and time contains a particular and place in a

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 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.

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.

500EKON Economics Z,ZK 3

Decision-making in building projects consists of both economic and non-economic criteria for design and its implementation, e.g. income-expenditures or cost-benefit analysis. Both general mathematical formulas, algorithms and the lecturer's expertise and skills will develop the student's knowledge of how to identify optimal strategies and to predict the outcome of strategic interactions within the project life cycle. Seminars are devoted to practical problems in the form of a case study "Create your own business in CZ by buying and refurbishing existing premises" (prefeasibility study) with emphasis on the construction work cost and architect's design team costing and pricing. Thus following crucial information is inevitable: total initial project costs, operating/manufacturing project costs in use, project life-time schedule, financing, externalities (EIA, IPPC) and CZ business environment assessment (PEST analysis) and construction work estimating (the bill of quantities, elemental cost analysis. The aim of the course: to furnish students/participants with adequate tools and techniques for competent assessment and strategic decision about capital investment projects under competitive and co-operative post-modern conditions.

500DA3-4 History of Architecture III/IV

ZK

2

The aim of the course is to analyse the basic features of Baroque religious architecture, its formal language, its social background and its technology. Students should acquire the capacity to read Baroque architecture according to the theoretical principles of the age of its origin. Contents: Renaissance architecture - introduction. Art and architecture around 1600. The triumph of the church - art and architecture after the battle at the White Mountain. Tendencies in Prague art and architecture in the second half of the 17th century. High Baroque church as a Gesamtkunstwerk. St Nicholas Church and the churches of the Lesser Quarter. The decay of the Baroque world. St Michael's mystery - problems of monument care and the use of monuments.

500TKZ1 Landscape Architecture I-Introduction

Z,ZK

3

2

This course is about obtaining knowledge through sharing and developing ideas regarding the history of garden art and landscape architecture and contemporary trends of landscape architecture worldwide. Students write essays, make site research in Prague (historical gardens, parks, public spaces) and make PowerPoint presentation concerning landscape architecture in their country.

500P Law

ZK

Czech legal system in the context of European and international law: Constitutional system (Legislative Power - Executive Power - Judical Power; Legal system of acts, decrees, governmental regulations, standards; Regions and Municipalities; Public Law – Private Law; Substantive Law – Procedural Law) / Building Act and broader legal context / Space and urban planning / Building code / Administrative procedures according to the Building Act; general and special building authorities / External state authorities in administrative procedures according to the Building Act / General technical requirements on structures / Technical standards / Competencies and duties of professionals according to the Building Act (activities of authorized persons, other persons with regulated activities and activities of authorized inspectors) / Heritage preservation / Charter of Architectural Education / Academic and professional recognition of education / Bologna process and European higher education area / Authorisation Act / Competencies and duties of chambers / Competencies and duties of authorised persons / Legal conditions of independent performance of the architectural profession / Contract between architect and client (as a private or a business person), design costs / Responsibility for a design of a building or a structure, author's supervision of the construction.

500NK5 Load - Bearing Structures V

KZ

2

Load-bearing structures made of various materials; types and forms of historical and contemporary structures; examples of load-bearing structures according to prevailing exposition of load and according to their typology.

500PP2 Monument Preservation

,ZK

3

This course provides an introduction to the philosophy, ethic, methods and practices of the conservation of monuments, historic buildings, urban ensembles and landscapes in their historic development and current state. It gives basic information on historical and archaeological survey and documentation of monuments, their listing and legal protection in the Czech Republic. The current state of conservation practice, inclusive of the technological aspects will be demonstrated with selected illustrative cases. Attention will also be paid to the international context and collaboration in these fields.

500TZI2 Technical Infrastructure II - Urban Utilities

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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

ΊK

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.

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.

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: 11

The role of the block: V

Code of the group: ELECTIVE NAUE

Name of the group: Elective Courses NAUE

Requirement credits in the group: In this group you have to gain at least 11 credits

Requirement courses in the group:

Credits in the group: 11 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
500CAD3	Computer Aided Design III Henri Hubertus Achten, Šimon Prokop, Ivana Vinšová Šimon Prokop (Gar.)	KZ	2	0P+2C		V
500CAD4	Computer Aided Design IV Henri Hubertus Achten, Šimon Prokop Henri Hubertus Achten (Gar.)	KZ	2	0P+2C		V
500PG1	Computer Graphics I Stanislav Moravec, Kate ina Sýsová Dana Mat jovská (Gar.)	KZ	2	0P+2C	Z,L	V
500SAT	Contemporary Architecture Vladimír Šlapeta	ZK	2	2P+0C	L	V
500DC1	Design Computing I - BIM Aleš Marek Aleš Marek Aleš Marek (Gar.)	KZ	2	1P+1C	Z	V
500DC2	Design Computing II - Architecture Henri Hubertus Achten Henri Hubertus Achten Dana Mat jovská (Gar.)	KZ	2	1P+1C	Z	V
500DC3	Design Computing III - Geometry Šimon Prokop, Dana Mat jovská, Ji í Šruba , Lukáš Kurilla Lukáš Kurilla Martin Pospíšil (Gar.)	KZ	2	1P+1C	Z	V
500ATV	Design Studio - Elective Vladimír Sitta, Henri Hubertus Achten, Jan Jakub Tesa , Vladimír Soukenka, Veronika Šindlerová, Michal Kohout, Radmila Fingerová	KZ	4	0P+4C		V
500DS	Diploma Seminar Vladimír Krátký, Luis Marques, Tomáš Efler, Vladimír Sitta, Václav Girsa, Irena Šestáková, Miloš Florián, Henri Hubertus Achten, Petr Hájek, Václav Girsa (Gar.)	KZ	2	0P+2C	Z	V
500EKL3	Ecology III - Social Ecology Petr Klápšt Petr Klápšt (Gar.)	KZ	2	2P+0C	Z	V
500DA1-2	History of Architecture I/II Pavel Kalina Pavel Kalina (Gar.)	ZK	2	2P+0C	Z	V
50012	Interior-History of Interior Marek Teska	ZK	2	2P+0C	L	V
50013	Interior-History of Theatre Veronika Šindelá Kastlová Veronika Šindelá Kastlová	ZK	2	2P+0C	Z	V
500TKZ3	Landscape Architecture III - Technology	KZ	2	2P+0C	L	V
500DA5	History of Architecture Modern Architecture Vladimír Šlapeta Petr Vorlík (Gar.)	ZK	2	2P+0C	Z	V
500SU	Smart Urbanism Jakub Vorel Jakub Vorel Jakub Vorel (Gar.)	Z,ZK	2	2P+0C	L	V
500CAD5	Spatial Analysis Daniel Franke, Ji í tyroký Daniel Franke Daniel Franke (Gar.)	KZ	2	1P+1C	Z	V
500TA1	Theory of Architecture and Esthetics Jana Tichá, Ji í Tourek Jana Tichá Jana Tichá (Gar.)	KZ	2	1P+1C		V
500UP2	Urban Planning II Jakub Vorel Jakub Vorel (Gar.)	KZ	2	1P+1C	L	V
500U31	Urbanism III - Theory Irena Fialová, Kate ina echová Irena Fialová Irena Fialová (Gar.)	KZ	2	1P+1C	Z	V

Characteristics of the courses of this group of Study Plan: Code=ELECTIVE NAUE Name=Elective Courses NAUE

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 Hubá ek and the SIAL Group. Czech Architecture after 1989. Young generation in the Czech Republic.

BIM Building Information Modeling / Information Management Process. Basic information about BIM project planning; building information model of information flow in individual phases of construction and ways of sharing the information model (shared data environment CDE), construction particle new roles and processes in BIM implementation - risk benefits, designing and obstacles related, terminology - definition of BIM and its use in terms (sustainable development and buildings with zero energy intensity). Use of data, databases, reports, data standards, BIM from the static point of vieth HVAC, collision detection, bill of quantities, construction cost management, expert analyzes, optimization, legal aspects - copyright, intellectual proprotocol, BIM Execution Plan, the role of the state in the implementation of the BIM method - digitization of the process for building permits, public voluntary use of BIM, technical standards and standards, European and worldwide context.	sipants and lifecycl s of new requireme ew, BIM from the p perty, contractual r	e of the building, ents for buildings oint of view of matters - BIM
500DC2 Design Computing II - Architecture	KZ	2
In this course contemporary architecture is studied through the lens of computational methods. It is shown how in the past 30 years the relationship materials, and computation has transformed. Principles of parametric design, performative design, and generative design are presented and discuss buildings and architects. Special attention is devoted to interactive architecture. A number of contemporary key issues in architectural theory are broad approaches. Practical application in this course is tested through Arduino prototyping. Arduino enables the creation of interactive structures using supprogramming language. By creating a number of interactive applications students will learn the basic technological principles of interactive architectures design methodology, advanced parametric design, rapid prototyping, AI, robotics, automation, simulation, analysis, optimization, CAD / CAM, data	between architec sed in-depth throu bught in relation wi ensors, controllers ture. Keywords - co	ugh cases of key th computational , and Processing ontemporary
500DC3 Design Computing III - Geometry	KZ	2
Architectural modeling can no longer be done without computational geometry, which simplifies 3D work and speeds up design procedures. Whether sophisticated generational design, they rely on the capabilities that contemporary CAAD modeling software brings. Understanding the geometric prenvironment gives architects the freedom to create. In addition, a well-educated architect gains the opportunity to rationalize his work and eventually a parametric approach to modeling. In this way, multiple design options can be tested. Thanks to the generative model, various types of optimizations - it can be anything from the level of sunshine of all residential spaces, to the sag in the structure to any area and volume ratios. Thanks to multi-crit found which, moreover, fulfill several such criteria at the same time. In this course, practical applications are tested using Grasshopper (which works wand Dynamo (based on Revit software). Keywords - advanced geometry in architecture, mathematically described geometric objects, use of scripting	retraditional "hand inciples and proce y reuse existing proce on can be applied wateria optimization, with Rhinoceros mo	imade" design or edures in this roblems through vithin the design solutions can be
500ATV Design Studio - Elective	KZ	4
The assignment can be processed into tasks from the currently offered topics of the obligatory studios in the relevant semester. In addition to the to studios, ATV allows a wider choice of tasks such as conceptual studio, art studio, industrial design studio, furniture or exhibition design studio, inter ATRN follow-up studio, spatial and strategic planning studio or studio landscape architecture. In the framework of ATV it is also possible to solve su a historical building survey for studio assignments in the PP module. The assignment of ATV can also be determined individually, by agreement with to the specific interest of the student.	pics specified in the pics specified in the pict of the pict of the second of the seco	BIM studio or sign studio or as studio, according
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 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 with his future diploma project in the form of a research project, within which the diploma thesis will be developed. The diploma seminar precedes the processed in the following variants: • Analysis of the territory of the future diploma project - in which case the student should not be acquainted with 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 proposible in agreement with the studio tutor and the dean approvement.	into professional in the diploma project the specific progra	ssues connected and can be m of the diploma
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 selecter research and participation of citizens in the formation of the rural environment, the city and its socio-spatial structure. The theoretical part of the subtraction which are processed by the students and present them during the semester.	ed methods of soc	io-ecological
500DA1-2 History of Architecture I/II	ZK	2
The aim of the course is to trace the most important features of Gothic cathedral architecture including its social context and building technology. St interpret Gothic architecture according to its geometrical design and social function. Contents: The origins of Christian architecture. The Romanesq Western Europe. The beginnings of Gothic architecture in Bohemia. Gothic Cathedral of St Vitus: Matthew of Arras and Peter Parler. Architecture in in the cathedral. Architecture and visual arts: sculpture and painting in the cathedral. Town and the Cathedral. Emmaus Monastery and the New Town	ue basilica. Gothic use: liturgy and ve	cathedrals in
50012 Interior-History of Interior The history of interior and furniture as a constant transformation of the relationship between aesthetic feeling and technological innovation of mater Relation between the technological and design possibilities of shaping to the resulting aesthetic effect. Time stamps of craft and expression. Typical individual epochs and their relation to material culture. Presentation of exhibition stands. Design and construction of current assembly systems.		•
500l3 Interior-History of Theatre	ZK	2
This subject focuses on the development of the architecture of theatre buildings and production areas. Attention is focused on the logic of the relation and the development of the theatre, as a medium. Media that express the cultural and social tendencies of their time. These aspects then influence and its technical equipment. Seminar work, which analyses historical theatre building and contemporary theatre building and, compares the different Part of the course includes excursions to Czech theatre buildings and a visit to Laterna magika.	on between the bu the formation of th at needs of the pro	ilding typology ne scenic space duction space.
500TKZ3 Landscape Architecture III - Technology	KZ	2
Introduction to landform and landform representation. Perception and scale of the landscape experience. Landform modelling. Landform manipulati Surface water management and soil erosion sedimentation control. Landscape structures; pavement surfaces, design, detailing and performance. S and detailing. Walls and slope structures; engineering, design and detailing. Site structures for occupancy; sitting, walking, riding, gatherings. Planting Site illumination. Technical specification.	Steps, ramps and r	ailings; design
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 a accompanied with excursions in Prague, Brno, Hradec Králové etc. Contents: Czech Jugendstil and early modernism. Czech Cubism. The National S Go ár. Kamil Roškot. Adolf Loos. Josip Ple nik. Czech Functionalism. Czechoslovak Werkbund and the Baba housing exhibition. Interactions with E modern urban culture. Brno - a city of Modern Architecture. Zlín - the Ba a industrial city	Style and the Dutch	n influence. Josef
500SU Smart Urbanism	Z,ZK	2
In the course Smart Urbanism we illustrate how technological innovation has affected cities from history to the present, and on that basis we discuss for urban planning and management. We focus in particular on the relationship of technological innovation to urban metabolism, urban morphology, demography, mobility and urban society, and the way cities are understood and managed through data and information technology.	_	-
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 studen used in the planning process. The main topics are an introduction to the leading Geographic Information System (GIS) solutions, principles of GIS f models and, specifically, the basics of the spatial analyses used for urban planning. During the course, students elaborate the seminar paper target processing in relation with a selected urban planning problem. The course is led with an accent on the practical training in working with GIS softwar used in this course is ESRI ArcGIS Desktop	unctionality, GIS d ted to GIS analysis	ata and data s or GIS data

500TA1	Theory of Architecture and Esthetics	KZ	2
	se is to introduce to the theory of architecture. The key concepts of the 20th century and contemporary architecture and their interpr	l l	phasized in a
wider cultural conte	xt. The relationship between architectural discourse and architectural creation is taken into account. The starting point is the theory of	of modernity, b	ut the course is
focused on the the	ery of architecture of the second half of the 20th century which has been influenced by structuralism, semiotics, phenomenology and	poststructural	ism. Also the
contemporary appr	paches, reflecting the shift in new technological possibilities in architecture and society, are included. In connection with the architect	tural themes, th	ne students are
also acquainted wit	h the key concepts of aesthetics, which are relevant to the architectural discourse.		
500UP2	Urban Planning II	KZ	2
	planning as an intentional way of influencing urban change. Overview of the discipline of planning and its role in society. Methodolog	l l	
	e environment. Planning, the environment and designing. Project will be discussed. Planning methodology I. Urban composition. Men	-	
	ing. Land-use. Planning methodology III. Land-use plan, legal limits, plan-making. Deadline: survey drafts. Instruction for Constraints	•	
	development. Project site analysis. SWOT analysis. Identification of issues for Strategy. Tutoring, discussion of strategies. Mock hearing		
	g regulations. Final presentation.	J	3
500U31	Urbanism III - Theory	KZ	2
	ces the student to the most important urban theories and ways of thinking about the city from the 19th century to the present. In lectu		
	ally in order to be able to analyze, evaluate, compare and recognize the practical effects of these theories on the development of Eur		iais, the student
is led to trillik critica	in in order to be able to analyze, evaluate, compare and recognize the practical effects of these theories of the development of Eur	opean cities.	
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	List of courses of this pass:		
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Code	Name of the course	Completion	on Credits
500ATRN	Design Studio - Comprehensive Project	KZ	11
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to the specific interest of the student.

500ATVZ Design Studio - Independent Study ΚZ

For the Independent Study Studio it is possible to process assignments from any of the authorised specialisations acknowledged by the Chamber of Architects: architecture, urbanism

and spatial planning or landscape architecture. 500CAD3 ΚZ 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 ΚZ Computer Aided Design IV

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 ΚZ

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

500DA1-2 History of Architecture I/II ZK 2 The aim of the course is to trace the most important features of Gothic cathedral architecture including its social context and building technology. Students should acquire the ability to interpret Gothic architecture according to its geometrical design and social function. Contents: The origins of Christian architecture. The Romanesque basilica. Gothic cathedrals in Western Europe. The beginnings of Gothic architecture in Bohemia. Gothic Cathedral of St Vitus: Matthew of Arras and Peter Parler. Architecture in use: liturgy and veneration of relics in the cathedral. Architecture and visual arts: sculpture and painting in the cathedral. Town and the Cathedral. Emmaus Monastery and the New Town of Prague. History of Architecture III/IV 500DA3-4 7K The aim of the course is to analyse the basic features of Baroque religious architecture, its formal language, its social background and its technology. Students should acquire the capacity to read Baroque architecture according to the theoretical principles of the age of its origin. Contents: Renaissance architecture - introduction. Art and architecture around 1600. The triumph of the church - art and architecture after the battle at the White Mountain. Tendencies in Prague art and architecture in the second half of the 17th century. High Baroque church as a Gesamtkunstwerk. St Nicholas Church and the churches of the Lesser Quarter. The decay of the Baroque world. St Michael's mystery - problems of monument care and the use of monuments. 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 Design Computing I - BIM 500DC1 BIM Building Information Modeling / Information Management Process. Basic information about BIM project planning; building information model of the building, systematically correct information flow in individual phases of construction and ways of sharing the information model (shared data environment CDE), construction participants and lifecycle of the building, new roles and processes in BIM implementation - risk benefits, designing and obstacles related, terminology - definition of BIM and its use in terms of new requirements for buildings (sustainable development and buildings with zero energy intensity). Use of data, databases, reports, data standards, BIM from the static point of view, BIM from the point of view of HVAC, collision detection, bill of quantities, construction cost management, expert analyzes, optimization, legal aspects - copyright, intellectual property, contractual matters - BIM protocol, BIM Execution Plan, the role of the state in the implementation of the BIM method - digitization of the process for building permits, public procurement, the obligation and voluntary use of BIM, technical standards and standards, European and worldwide context. 500DC2 Design Computing II - Architecture K7 2 In this course contemporary architecture is studied through the lens of computational methods. It is shown how in the past 30 years the relationship between architecture, theory, materials, and computation has transformed. Principles of parametric design, performative design, and generative design are presented and discussed in-depth through cases of key buildings and architects. Special attention is devoted to interactive architecture. A number of contemporary key issues in architectural theory are brought in relation with computational approaches. Practical application in this course is tested through Arduino prototyping. Arduino enables the creation of interactive structures using sensors, controllers, and Processing programming language. By creating a number of interactive applications students will learn the basic technological principles of interactive architecture. Keywords - contemporary design methodology, advanced parametric design, rapid prototyping, AI, robotics, automation, simulation, analysis, optimization, CAD / CAM, data mining, advanced data processing. Design Computing III - Geometry Architectural modeling can no longer be done without computational geometry, which simplifies 3D work and speeds up design procedures. Whether traditional "handmade" design or sophisticated generational design, they rely on the capabilities that contemporary CAAD modeling software brings. Understanding the geometric principles and procedures in this environment gives architects the freedom to create. In addition, a well-educated architect gains the opportunity to rationalize his work and eventually reuse existing problems through a parametric approach to modeling. In this way, multiple design options can be tested. Thanks to the generative model, various types of optimization can be applied within the design - it can be anything from the level of sunshine of all residential spaces, to the sag in the structure to any area and volume ratios. Thanks to multi-criteria optimization, solutions can be found which, moreover, fulfill several such criteria at the same time. In this course, practical applications are tested using Grasshopper (which works with Rhinoceros modeling software) and Dynamo (based on Revit software). Keywords - advanced geometry in architecture, mathematically described geometric objects, use of scripting. 500DP1 Diploma Project 30 500DS Diploma Seminar 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 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 approvement. 500EKL2 Ecology II K7 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 ΚZ Ecology III - Social Ecology 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. 500EKON Z.ZK **Economics** Decision-making in building projects consists of both economic and non-economic criteria for design and its implementation, e.g. income-expenditures or cost-benefit analysis. Both general mathematical formulas, algorithms and the lecturer's expertise and skills will develop the student's knowledge of how to identify optimal strategies and to predict the outcome of strategic interactions within the project life cycle. Seminars are devoted to practical problems in the form of a case study "Create your own business in CZ by buying and refurbishing existing premises" (prefeasibility study) with emphasis on the construction work cost and architect's design team costing and pricing. Thus following crucial information is inevitable: total initial project costs, operating/manufacturing project costs in use, project life-time schedule, financing, externalities (EIA, IPPC) and CZ business environment assessment (PEST analysis) and construction work estimating (the bill of quantities, elemental cost analysis. The aim of the course: to furnish students/participants with adequate tools and techniques for competent assessment and strategic decision about capital investment projects under competitive and co-operative post-modern conditions. 50012 Interior-History of Interior 2 The history of interior and furniture as a constant transformation of the relationship between aesthetic feeling and technological innovation of material processing and development. Relation between the technological and design possibilities of shaping to the resulting aesthetic effect. Time stamps of craft and expression. Typical attributes and milestones of individual epochs and their relation to material culture. Presentation of exhibition stands. Design and construction of current assembly systems. 50013 Interior-History of Theatre ZK This subject focuses on the development of the architecture of theatre buildings and production areas. Attention is focused on the logic of the relation between the building typology and the development of the theatre, as a medium. Media that express the cultural and social tendencies of their time. These aspects then influence the formation of the scenic space and its technical equipment. Seminar work, which analyses historical theatre building and contemporary theatre building and, compares the different needs of the production space. Part of the course includes excursions to Czech theatre buildings and a visit to Laterna magika.

500NK5 Load - Bearing Structures V ΚZ 2 Load-bearing structures made of various materials; types and forms of historical and contemporary structures; examples of load-bearing structures according to prevailing exposition of load and according to their typology. Building Theory V 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 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. 500P Law ZK Czech legal system in the context of European and international law: Constitutional system (Legislative Power - Executive Power- Juidical Power; Legal system of acts, decrees, governmental regulations, standards; Regions and Municipalities; Public Law – Private Law; Substantive Law – Procedural Law) / Building Act and broader legal context / Space and urban planning / Building code / Administrative procedures according to the Building Act; general and special building authorities / External state authorities in administrative procedures according to the Building Act / General technical requirements on structures / Technical standards / Competencies and duties of professionals according to the Building Act (activities of authorized persons, other persons with regulated activities and activities of authorized inspectors) / Heritage preservation / Charter of Architectural Education / Academic and professional recognition of education / Bologna process and European higher education area / Authorisation Act / Competencies and duties of chambers / Competencies and duties of authorised persons / Legal conditions of independent performance of the architectural profession / Contract between architect and client (as a private or a business person), design costs / Responsibility for a design of a building or a structure, author's supervision of the construction. 500PAM2 Building Technology and Management II Z,ZK The aim of the lectures is preparation of the future architect for his role as a project designer and manager starting from the building investment programme up to the operational stage. One of the lectures' points of view is the impact of architectural and structural design on its building technology and implementation stages. The other point of view explains the opposite process - the impact of a particular building technology and staging upon the architectural and structural design. The lectures' content is the process starting with investment programme, the way how different building technology systems are being implemented, their staging and coordination during architectural and structural detailing, the conception of implementation staging already within architectural preparatory work. Computer Graphics I 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. Monument Preservation This course provides an introduction to the philosophy, ethic, methods and practices of the conservation of monuments, historic buildings, urban ensembles and landscapes in their historic development and current state. It gives basic information on historical and archaeological survey and documentation of monuments, their listing and legal protection in the Czech Republic. The current state of conservation practice, inclusive of the technological aspects will be demonstrated with selected illustrative cases. Attention will also be paid to the international context and collaboration in these fields. 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. 500SU Smart Urbanism 2 In the course Smart Urbanism we illustrate how technological innovation has affected cities from history to the present, and on that basis we discuss future challenges and implications for urban planning and management. We focus in particular on the relationship of technological innovation to urban metabolism, urban morphology, land use, urban ecosystems, demography, mobility and urban society, and the way cities are understood and managed through data and information technology. 500TA1 Theory of Architecture and Esthetics ΚZ The aim of the course is to introduce to the theory of architecture. The key concepts of the 20th century and contemporary architecture and their interpretation are emphasized in a wider cultural context. The relationship between architectural discourse and architectural creation is taken into account. The starting point is the theory of modernity, but the course is focused on the theory of architecture of the second half of the 20th century which has been influenced by structuralism, semiotics, phenomenology and poststructuralism. Also the contemporary approaches, reflecting the shift in new technological possibilities in architecture and society, are included. In connection with the architectural themes, the students are also acquainted with the key concepts of aesthetics, which are relevant to the architectural discourse. 500TKZ1 Landscape Architecture I-Introduction Z,ZK 3 This course is about obtaining knowledge through sharing and developing ideas regarding the history of garden art and landscape architecture and contemporary trends of landscape architecture worldwide. Students write essays, make site research in Prague (historical gardens, parks, public spaces) and make PowerPoint presentation concerning landscape architecture in their country. 500TKZ3 Landscape Architecture III - Technology 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. 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 ΚZ 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. 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.

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.

For updated information see http://bilakniha.cvut.cz/en/FF.html Generated: day 2024-05-14, time 13:23.