

ELECTIVE SUBJECTS TAUGHT IN ENGLISH		L / S	ECTS
Architecture studio		hrs/w	
ST1 Studio - FREE ASSIGNMENT I			16
Studio assignment for Autumn term. Creative studio work is the main and essential means of teaching architecture. It is based on the "learning by doing" method, i.e. gaining knowledge and skills by practical application. It consists in the dialogue of the teacher with the student over a project that is being developed. Architectural design of a construction and its local relationships; the solution is documented by the respective annexes, according to the assignment – situation plan, views, sections, model, technical report, or, possibly, the analytical and the design part of an urban planning study. The structural solution is individual according to the assignment.			
ST2 Studio - FREE ASSIGNMENT II			16
Studio assignment for Spring term. Creative studio work is the main and essential means of teaching architecture. It is based on the "learning by doing" method, i.e. gaining knowledge and skills by practical application. It consists in the dialogue of the teacher with the student over a project that is being developed. Architectural design of a construction and its local relationships; the solution is documented by the respective annexes, according to the assignment – situation plan, views, sections, model, technical report, or, possibly, the analytical and the design part of an urban planning study. The structural solution is individual according to the assignment.			
BPE Bachelor project			30
Studio assignment for Spring term. Creative studio work is the main and essential means of teaching architecture. It is based on the "learning by doing" method, i.e. gaining knowledge and skills by practical application. A Bachelor project is to prove the student's knowledge and skills gained on a comparable uniform assignment			
9M6 Diploma project - module M6			30
A diploma project is the completion of the student's creative work in the master degree study program. The dissertation is the student's final project, in which he presents his knowledge and skills.			

ELECTIVE SUBJECTS TAUGHT IN ENGLISH		L / S	ECTS
Architecture and Urban planning		hrs/w	
1M6 Contemporary architecture			2
The aim of this subject is to make students acquainted with the contemporary Czech architectural scene, to provide review of contemporary Czech architecture, introduction to historical context, its roots, origins of contemporary creation and the historical reflection.			
2M6 Management and valorize of cultural heritage			2
The course considers cities of tomorrow, their identity and cultural heritage and its protection, renovation and new utilization, as well as the Industrialization Era. The current situation of industrial heritage, abandoned factories, new owners, temporary usage, dangers are also discussed, along with the conversion of industrial heritage as a part of the development of heritage.			
3M6 Development planning of the city and region			2
Students learn theoretical principles and rules of planning cities and regions with a focus on functional, operational and spatial composition, in addition to planning cities and regions and basic theoretical training.			
UTP Urbanism V - territorial planning			4
The subject "Formation of Urban and Landscape Environments" is a continuation of the preceding fundamental urbanism studies, covering primarily functional relationships at the level of the individual urban elements and the urban development concept. The course deals with the interpretation and formation of the urban and rural environments. Detailed analyses are made of the historical principles of spatial organization and their applicability to the modern city (composition, problems of new forms, etc.). A second series of lectures and tutorials is devoted to the fundamentals of garden design and to the influence of historic development on today's design. The course also covers the natural environment of settlements and the rehabilitation and protection of the landscape.			
6X8 Conversion of buildings			2
The course focuses on assessing industrial heritage and finding ways for its renewal, preservation and new utilization. This subject is also open to foreign students who speak English or French.			
ZAA Landscape architecture			3
The optional subject "Landscape architecture" resumes the basic disciplines dealing with the functional, organizational and spatial relationships at the level of the city and its parts. In classes and tutorials the students get acquainted with the past and present of landscape and garden art, with the interpretation of this discipline in its relation to urban design and architecture. Of great importance for the practice of an architect and urban designer are the properties of the plant material and its use in a landscape design. Emphasis is also put on the principles and rules of planning, making and maintaining green spaces. In classes and tutorials students get acquainted with the best examples of implemented garden architecture, reconstructed gardens and parks and newly established green areas.			
SMA Space in modern architecture			4
The seminar introduces to the concept of space in modern architecture, focusing on two aspects: historical and critical. The course provides historical and intellectual mapping of the concept of space through the discussion of texts of architectural theory in the twentieth century, including the genesis of this concept. The critical aspect of the course develops understanding of architecture in a broader cultural context (such as philosophical thinking, theory and history of art).			

ELECTIVE SUBJECTS TAUGHT IN ENGLISH		L / S	ECTS
Technical subjects		hrs/w	
5M6 Structural technology			2
This course offers lectures on new construction materials, their physical characteristics and impact on the natural environment, as well as new constructions and technological procedures. New trends used in Czech and worldwide construction are also dealt with. Lectures are given by teachers from FA VUT, Brno, specialists from FAST VUT, Brno, and external collaborators.			
SCA Structural calculations			2
The students will be informed about the principles of the designing of the wooden/steel constructions. They will carry out the static calculation of the load-bearing structures according to their own design and will draw this design. The specified static calculation will be carried out according to the European standards.			
TCP Technology of construction processes and defects in constructions			2
This course aims to make the students acquainted with the current building processes in relation to the properties of materials so that they are able to use the acquired knowledge in architectural design. It also attempts to explain the relation between the technology of building processes and cost effectiveness of constructions as well as to offer an overview of the most frequent failures of constructions.			
FR1 Structural engineering I			2
This Autumn term course considers the engineered structure as a part of space. Function, structure, technical equipment and foundation bed are considered as well as the hierarchy of structural systems, kinds of structural systems, vertical and horizontal load-bearing structures, vertical communications, and cantilevered and receding structures. An analysis of implemented structures is also provided.			
BUS - Building Structures, environment and Energy			2
The course is divided into four main blocks dealing with environment and structural properties of buildings - Thermal Insulation and Energy, Acoustics and Lighting. Block 1 deals with thermal properties of structures, buildings and is aimed to a final energy assesment of a designed building. Block 2 is aimed to technical equipment of buildings - heating and water preparation systems with choice of alternative source of energy. Block 3 deals with acoustic properties of structures and buildings and aims to complete design of a space for cultural purposes. Block 4 deals with lighting and design of lighting systems.			

ELECTIVE SUBJECTS TAUGHT IN ENGLISH Broader field of knowledge		L / S hrs/w	ECTS
4M6 Realization of buildings, business and finances			4
The course provides familiarization with the realization of buildings from the point of view of projection offices, including managing turnkey delivery, modern methods of construction organization all the way through the approval process. In the subject "Business and Finances," the students become familiar with general rules of business, business subject types, tax laws and rules, the basics of accounting and business strategies.			
VE4 Computer Technologies IV - 3D modeling and visualization			4
The course focuses on mastering 3D computer graphics and visualization. The students become acquainted with the methods and tools of 3D modeling in the AutoDesk VIZ 2005 environment. They also learn to create realistic 3D scenes (illumination, materials, spatial effects, atmospheric effects, etc...). They likewise become acquainted with the fundamentals of animation.			
EFC Effective communication			2
Developing students' skills in leadership, managing successful discussions and negotiation, the course focuses on presentations, rhetoric and principles of public relations.			
MFA Marketing for architects			2
The aim of the course is to acquaint the students with the principles of customer relations and to help them understand the significance of marketing practice for their own freelance activities.			
VT8 Graphic techniques			2
The work in this subject is divided in three phases. In the first phase it is important to come up – to create a strong drawing of spatial (architectonic) structure which is not strain by any conditions of realization. The drawing is very free and based only on the conditions of the structure. It has to be well arranged, transparent, not overburdened by any extra elements. In the second phase this drawing serves as base for making overprint painting, monotype, painted on the glass and placed on this exact drawing. Monotype allows searching for the colourful variations in the framework of the drawing and in the same time it can liberate it till the abstract form in which it serves only as a free guideline. The last phase has its base on chosen overprint painting or only on its part which is transformed by scanning or photographing into the digital form and then with the computer it is adjust to the artistically strong large size (A0) poster. The poster includes integration of each phases its structure (drawings and prints). The phase of printing can be individually different. It is possible to make the drawing on the sheet metal and the painting sample under the bigger pressure in the press. Transform the drawing into the press matrix and change press colours on the specific base etc. Unfortunately the most of the needed materials, except the paper, students have to reimburse themselves.			
ZAE Principles of economics			2
The course deals with micro- and macroeconomics at a basic level. The student learns basic economic indicators in order to understand the macro- and micro- economic context for his/her decision-making in the real economic environment.			
MME Management basics for owner of architectural design office			2
The aim of the course is to acquaint the students with the most frequently used techniques of business management and to teach the students to use them in daily life.			
CZL Czech language			
This course learns to pre-intermediate level. It takes the best of modern and traditional language teaching the base of Czech, i.e. spelling, writing, listening, understanding and simple communication. The experienced lectors from Brno universities use, above all, own grammatical-communicative methods with en elements of the direct method. The aim of the course is to practice grammar and to expand student's ability to communicate (forming of questions, reactions and description of situations). Phonetics and construction of Czech sentences is also accentuated. The theoretical texts and dialogs are supplemented with excursions into shops, restaurants, library, cinema etc., also into city surroundings.			