

## Courses for Incoming Students

Faculty of Architecture, Brno University of Technology, CZ BRNO01

Academic year 2019/2020

Code	Course Title	Dept.	Teacher	ECTS	Hours per week	Semester
ST1	Studio - FREE ASSIGNMENT I	FA		16	8	winter
<p>Studio assignment for Winter 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.</p>						
ST2	Studio - FREE ASSIGNMENT II	FA		16	8	summer
<p>Studio assignment for Summer 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.</p>						
1M6	Contemporary Czech Architecture	UTA	Šmídek Petr, MgA.Ing.arch., Ph.D.	2	2	winter or summer
<p>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.</p>						
2M6	Management and valorize of cultural heritage	UPP	Zemánková Helena, prof. Ing. arch., CSc.	2	2	winter
<p>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.</p>						
3M6	Development planning of the city and region	UU	Dokoupilova Pazderkova Kateřina, Ing. arch., Ph.D.	2	2	winter or summer
<p>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.</p>						
UTP	Urbanism V - Territorial Planning	UU	Dokoupilova Pazderkova Kateřina, Ing. arch., Ph.D.	4	2	winter or summer
<p>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.</p>						

EURK	Urban Composition	UU	Wittmann Maxmilián, doc. Ing. arch., Ph.D.	3	2	winter or summer
<p>The course "Urban composition" resumes the preceding courses covering along with urban structure development also the functional, operational and space relationships of the urban elements, and the urban structure. The subject deals with the urban structure composition at various measures levels and is focused also on the interpretation and formation of the urban environment. Analysed are in detail the principles of spatial organisation and their applicability to the modern city. A part of classes and tutorials is devoted to the fundamentals of garden design and to the regulars of city greenery formation. The subject covers also the development problems of the settlements natural environment.</p>						
6X8	Conversion of buildings	UPP	Zemánková Helena, prof. Ing. arch., CSc.	2	2	winter
<p>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.</p>						
ARC	Architecture of 20th Century	UTA	Šlapeta Vladimír, prof. Ing. arch., DrSc.	3	2	winter or summer
<p>In selected chapters is explained the architecture history of 20th century in Bohemia, Moravia, Silesia, Central Europe and worldwide in connection with the development of styles and tendencies, explaining also crucial role of leading personalities of modern architecture.</p>						
ZAA	Landscape Architecture	UU	Wittmann Maxmilián, doc. Ing. arch., Ph.D.	3	2	winter or summer
<p>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.</p>						
SCA	Structural calculations 1	US	Žabičková Ivana, doc. Ing., CSc.	2	2	winter
<p>Students learn main principles of structural design and simple static calculations of particular construction elements according to the European standards. Students can choose structural material - steel, timber or masonry. For entry to the course it is necessary to know basic principles of structural mechanics.</p>						
SCA	Structural calculations 2	US	Žabičková Ivana, doc. Ing., CSc.	2	2	summer
<p>Students learn main principles of structural design and simple static calculations of particular construction elements according to the European standards. Students can choose structural material - steel, timber or masonry. For entry to the course it is necessary to know basic principles of structural mechanics.</p>						
BSA	Basic Structures for Architects	US	Petříčková Monika, Ing., Ph.D.	2	2	summer
<p>Acquaints the students with the theoretical foundations of structural mechanics, the understanding of which leads to the knowledge of static action of and strain in the supporting elements of building structures. For an architect, the knowledge of the fundamental laws of structural mechanics is indispensable, since it is the modern logic basis of the most important stage of his work, i.e. the formulation of the concept. The subject is conceived in the spirit of the common principles of structural analysis, completed with examples of practical application.</p>						

RHE	Rhinoceros	UPT	Foretník Jan, Ing. arch.	4	2	winter or summer
The subject will learn students to manage 3D modelling (advanced NURBS volume modelling) and basics of visualisation in Computer Aided Design. Rhinoceros 4.0 will be used in the course to reach this goal.						
FIG1	Figural Drawing	UZ	Šebánek Jan, Mgr.	2	2	winter or summer
Evolution cartoon skill and knowledge in application on figure drawing						
VT9	Art - Drawing I	UZ	Gabrielová Milada, akad.mal.	2	2	winter
Drawing and the effort to grasp its potential. The significance of drawing as a means of interpretation and analysis of the space and object seen. Getting acquainted with the tools of drawing and checking the expressive potential of its correct mastering. Drawing treatment of an area and its optical alteration by a parallel line. Ability to create illusion of the third dimension in a plane. Drawing of a simple geometrical space and of the volume of bodies of which it consists. Mastering of perspective positioning of objects towards the viewer. Drawing of architectural space constrained by two planes, and its qualitative analysis by a drawing. Knowledge of the laws of linear perspective and of the relation of the depicted space to its plan.						
VT8	Art - Colour	UZ	Gabrielová Milada, akad.mal.	2	2	summer
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.						
VT10	Art - Drawing II	UZ	Gabrielová Milada, akad.mal.	2	2	summer
Drawing and the effort to grasp its potential. Understanding of the significance of drawing as a means of interpretation and analysis of the space and object seen. Getting acquainted with the tools of drawing, and checking the expressive potential of its correct mastering. Drawing treatment of a simple geometric space and of the volumes of bodies of which it consists. Perspective positioning of objects towards the viewer, and its correct mastering. Analysis by drawing of an architectural space and of the geometric volume of bones. Proportional analysis and building of the human figure by drawing, in its successive steps - skull - whole skeleton - head - detail - whole figure. The drawing of a figure after a model, with view to its architectonics. Building of an architectural space after one's own idea, and analysis of its quality.						

Note: winter or summer semester means that courses are one semester courses provided in both winter and summer semester and incoming students may register the course either in winter semester or in summer semester

Link to courses:

[https://www.fa.vutbr.cz/pages/seznam\\_akt\\_predmetu.aspx?lang=en&typ=en&menu=3](https://www.fa.vutbr.cz/pages/seznam_akt_predmetu.aspx?lang=en&typ=en&menu=3)