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MINISTERSTVO ŠKOLSTVÍ,
MLÁDEŽE A TĚLOVÝCHOVY



KONCEPT BAKALÁŘSKÉHO STUDIJNÍHO PROGRAMU V ANGLICKÉM JAZYCE

stav k 12. 12. 2022

k projednání ve fakultních orgánech (Rada studijního programu, Akademický senát, Vědecká rada)

STUDY AIMS

The aim of the study is to equip students with knowledge of theoretical, technical, and related disciplines in the field of architecture and urban design, as well as an adequate set of technical competences and skills. The range and level of skills and knowledge is defined so that the graduates may be able to hold the post that require the autonomous solution of complex constructional and technical, architectural and/or urban design problems. In practice, the graduates are supposed to attain the positions that require the ability to perform demanding technical tasks associated with building and urban design. The graduates may attain the position in design offices, in (supranational) public administration, and similar positions.

GRADUATE PROFILE

The graduates of the bachelor's study programme Architecture and Urban Design have an adequate range of up-to-date knowledge in the field of architecture, urban design, urban planning, and construction industry. The programme focuses on mastering the technical and theoretical knowledge of architecture, urban design and urban planning in their complex coherence. This knowledge is complemented with the related human sciences that are the essential basis for the quality performance of architect's practice. The graduates of the bachelor's study programme are able to interpret their designs and place them in the social context. The graduates are able to apply the knowledge gained in the individual courses into practice. The graduates have the ability to think critically. They are able to think and create in the context of the principles of sustainable development.

Professional knowledge

The graduates will have the professional knowledge required for the field of study Architecture and Urbanism. In terms of the prospective employment, the graduates will have the knowledge defined by the Czech Chamber of Architects (CCA) adequate for the level of bachelor's degree. If the graduates deepen their knowledge in the master's study programme, their knowledge will comply with the requirements for the CCA certification, namely in the field of Architecture, and in the field of Urban Planning.



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The extent of the graduate's knowledge is based on the CCA Certification Code (§4 a §5), namely:

- knowledge of the history and theory of architecture,
- knowledge of the history and theory of urban design (town development) and urban planning,
- knowledge of the related arts disciplines,
- knowledge of the technical disciplines
- knowledge of the physical problems and technologies and of the functions of buildings,
- knowledge of the relationships between architecture and urban design, urban planning and the process of designing buildings,
- knowledge of the technology how to design built environment in relation to health care, nature and landscape components of environment, with aim to improve the quality of life,
- basic knowledge of the related human sciences,
- knowledge of the methods of investigation and preparation of the brief for a design project,
- knowledge of the urban planning process and urban design process,
- knowledge and understanding of the culture, as one of the fundamental influences on the quality of land-use planning documentation, land-use planning data, and/or urban design plans and projects,
- knowledge of industries, organisations, regulations and procedures involved in the designer's profession,
- knowledge of professions, industries, technologies, regulations and procedures involved in the urban planning profession.

The range and level of knowledge is influenced by their importance in the Central European, national / Czech, or wider context.

Professional skills

The graduates of the bachelor's study programme will gain all professional skills required for the field of Architecture and Urbanism for the bachelor's level. The range of skills is defined by the graduate's prospective employment as an autonomous employee in the design office focused on architecture and urban design. The graduates acquire skills that comply with the CCA requirements on the education in the field of Architecture and in the field of Urban Planning (the CCA Certification Code, §4 and §5):

- competences to create architectural projects that satisfy both aesthetic and technical requirements,
- competences to understand the relations between people and architectural projects, and between architectural pro-



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jects and their environment, and to the need to relate architectural projects and the spaces between them to human needs and scale,

- competences to understand the profession of architect and the role in society, in particular in preparing briefs that take into account of social factors,
- competences to understand building design, and constructional and engineering problems associated with building design,
- necessary design skills to meet users' requirements within the constraints imposed by cost factors and building regulations,
- competences to create land-use planning documentation and land-use planning data, as well as urban design projects that comply with the natural, cultural, social, economic, technical, and aesthetic requirements,
- competences to understand the relationship between people and urban environment, and between urban environment and landscape, to understand the need to compose various spaces and environment to the human needs and scale,
- competences to understand the profession of urban planner and their role in society, in particular in preparing briefs that take into account of social factors,
- competences and skills of design planning to meet local users' requirements within the constraints imposed by cost factors and building regulations.

PROFESSION CHARACTERISTICS

The graduates of the bachelor's study programme (BSP) Architecture and Urban Design have acquired the up-to-date scientific and technical knowledge integrated in a complex of interdependencies. They are able to apply the knowledge gained in individual courses to solve the problems of the given field of study. They are able to hold the positions that require autonomous solution of complex construction and technical or managerial problems. They will find employment in technical and managerial positions that require the ability to work independently on demanding technical tasks associated with building design. They will find work in design studios, in public administration, and at positions with similar technical requirements. In exceptional cases the BSP graduates may become a certified architect under the conditions defined in §3, paragraph 5, the CCA Certification Code, however, they may become an employee in an architectural office or studio working under the professional supervision by a certified person. The BSP graduate may work as construction supervisor as defined in the Building Act.



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		1st YEAR		2nd YEAR		3rd YEAR		4th YEAR		
		autumn semester	spring semester	autumn semester	spring semester	autumn semester	spring semester	autumn semester	spring semester	
theory		History of architecture 1 Dějiny architektury 1 2 credits	History of architecture 2 Dějiny architektury 2 2 credits	History of architecture 3 Dějiny architektury 3 2 credits	History of architecture 4 Dějiny architektury 4 2 credits	History of architecture 5 Dějiny architektury 5 2 credits		Architectural Heritage Conservation Péče o architektonické dědictví 2 credits	Current Construction Techniques Aktuální stavební techniky 3 credits	01
		Urban Design History Vývoj urbanismu 2 credits	Theory of Architecture 1 – Introduction Teorie architektury 1 - Úvod 2 cr.	Theory of Architecture 2 Teorie architektury 2 2 credits	Theory of Architecture 3 Teorie architektury 3 2 credits	Contemporary Architecture Soudobá architektura 2 credits		Philosophy Filozofie 2 credits		02
designing		Basics of Architecture Základy architektury 12 credits	Studio Small House Ateliér malý dům 12 credits	Studio Large House Ateliér velký dům 12 credits	Studio Town and Place Ateliér město a místo 12 credits	Structural studio Konstrukční ateliér 12 credits		Studio Free Assignment Ateliér volné zadání 12 credits		03
		Building Elements 1 Pozemní stavitelství 1 3 credits	Building Elements 2 Pozemní stavitelství 2 3 credits	Building Elements 3 Pozemní stavitelství 3 3 credits	Building Elements 4 Pozemní stavitelství 4 2 credits	Cities and Settlements Sídla a osídlení 3 credits		Interior Interiér 2 credits		04
technics		Basics of Structural Mechanics Základy stavební mechaniky 3 credits	Load-bearing Structures 1 Nosné konstrukce 1 2 credits	Load-bearing Structures 2 Nosné konstrukce 2 2 credits	Designing Towns Stavba měst 3 credits	Building Services Technická zařízení budov 3 credits		Load-bearing Structures 3 Nosné konstrukce 3 2 credits		05
		Building Materials Stavební materiály 1 credit	Design of Buildings 1 Navrhování staveb 1 2 credits	Design of Buildings 2 Navrhování staveb 2 2 credits	Basics of Building Physics Základy stavební fyziky 2 credits	Law Basics for Architects Základy práva pro architektury 1 credit		Optional courses Volitelné předměty 9 credits		06
tools		Presentation Tools Prezentační techniky 2 credits	Computer Skills – 2D CAD Výpočetní technika 2D CAD 2 credits	Computer Skills – 3D CAD Výpočetní technika 3D CAD 2 credits	Computer Skills – Introduction to GIS Výpočetní technika - úvod do GIS 2 credits	Computer Skills – BIM Výpočetní techniky BIM 2 credits				07
		Technical English 1 (B2 Level) Odborná angličtina 1 2 credits	Art Techniques – Drawing Výtvarné techniky - kresba 2 credits	Art Techniques – Sculpturing Výtvarné techniky - modelování 2 credits	Art Techniques – Colour Výtvarné techniky - barva 2 credits	Optional courses Volitelné předměty 4 credits				08
		Mathematics and Geometry Matematika a geometrie 2 credits	Crafts Techniques Řemeslné techniky 2 credits	CAM Techniques CAM techniky 2 credits	Modelling Techniques Modelové techniky 2 credits					09
language courses / free courses / sport courses / selected bachelor courses										10
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