

Study programme "Engineering of Regional Development and Urban Economics "

Main attributes

Title	Engineering of Regional Development and Urban Economics
Identification code	ICH0
Education classification code	42581
Level and type	Professional Bachelor (First Cycle) Studies
Higher education study field	Architecture and Civil Engineering
Head of the study field	Uģis Bratuškins
Deputy head of the study field	Lana Migla
Department responsible	Faculty of Engineering Economics and Management
Head of the study programme	Uldis Kamols
Professional classification code	2164 09
The type of study programme	Full time
Language	Latvian
Accreditation	16.11.2022 - 17.11.2028; Accreditation certificate No 2022/31-A
Volume (credit points)	240.0
Duration of studies (years)	Full time studies - 4,0
Degree or/and qualification to be obtained	Professional bachelor degree in engineering of regional development and urban economics / territory development planning engineer
Qualification level to be obtained	The 6th level of European Qualifications Framework (EQF) and Latvian Qualifications Framework (LQF); the 6th level of professional qualification
Programme prerequisites	Secondary education

Description

Abstract	<p>The study programme consists of engineering, economic, managerial and environmental science study courses. Students are prepared for work in municipalities, public administration institutions and companies in the economic sector whose activities relate to the area of territorial development planning, so they need to understand the issues related to urban construction, municipal economics and infrastructure. In addition, urban social challenges are becoming a problem, and the study programme also provides a place for social and judicial study courses.</p> <p>During lectures, practice sessions and project development the study programme provide for in-depth knowledge of the economic and engineering aspects of the development of areas, the impact of the urban economy and the urbanisation process on regional development.</p>
Aim	<p>The aim of the study programme is to provide professional bachelor education in the engineering of regional development and urban economics, in order to ensure adequate theoretical knowledge and skills that allow graduates to do development planning engineer's work on a professional level, as well as to continue education in master study programmes and enhance professional competence.</p>
Tasks	<p>The tasks of the study programme:</p> <ul style="list-style-type: none"> - to provide competitive second-level professional higher education that corresponds to international standards and train students for practical work; - to provide students with a comprehensive knowledge of the economic development of the territory and the engineering aspects of urbanization process and urban economics, and impact on regional development, build professional skills and to develop their competences in accordance with labour market requirements; - to promote interest in further education, and the development of professional knowledge; - to encourage student interest in public processes, to stimulate student development as positive, responsible and legally competent personalities who can act independently and autonomously take decisions; - to ensure that the content of the study programme, the process of studies and scientific research development and changes comply with the specific field and international practice; - to promote academic staff and student interaction between scientific research and the practical use of the results obtained; - to foster and develop academic staff and student exchange and participation in international projects.

Learning outcomes	<p>Graduates of the study programme are able:</p> <ul style="list-style-type: none"> - to perform duties responsibly and independently in accordance with the requirements of the regulatory enactments in the field of territorial development planning of the Republic of Latvia and the legal norms of the European Union; - to plan, organize, control and assess territory development processes; - to perform economic calculations related to the sustainable development of the cities and regions; - to comprehend the problems associated with the maintenance of the engineering and technical infrastructure and to participate in the development and implementation of the infrastructure projects; - to implement the green economy policy for the sustainable development of the region; - to plan, develop and assess the budget process at the local, regional and state level; - to apply special territory planning software; - to develop and implement both local and international projects for the solution of the regional development issues; - to ensure compliance with the norms and regulations of occupational safety, fire safety and environmental protection; - to creatively cooperate with clients, entrepreneurs, specialists, etc.; - to conduct research of scientific value, to interpret and analyse its results on the issues related to territory development and urban economy.
Final/state examination procedure, assessment	<p>On completion of the study programme the student should develop a Bachelor Thesis including Project (volume 12 credit points). Bachelor Thesis is an independent research in the field of regional development and urban economy with a design part in which a specific project is developed to address the problem of the activities of the city, territory or local government.</p> <p>Pre-defence works shall be evaluated by reviewers approved by the dean of the Faculty of Engineering Economics and Management. The Bachelor Thesis is defended at a public meeting. It is assessed by the State Examination Commission approved by the Rector of RTU. It comprises highly qualified specialists in the field of urban and regional development. The Bachelor Thesis including Project is evaluated on a scale of 10 balls.</p>
Description of the future employment	Graduates can develop their careers in state and municipal bodies, work in various business entities etc.
Special enrollment requirements	
Opportunity to continue studies	Opportunities to continue studies in master study programmes.

Courses

No	Code	Name	Credit points
A		Compulsory Study Courses	13.0
A1		General Education Study Courses	18.0
1	IV0761	Introduction to Studies	1.0
2	IV0759	Civil Protection	2.0
3	SD0003	Innovative Product Development and Entrepreneurship	6.0
4	IV0441	Introduction to research	6.0
5	IV0165	Work Environment and Ergonomics	3.0
A.2		Field-Specific Theoretical Basic and IT Study Courses	54.0
1	IV0453	Social Economic Processes Mathematical Modelling	3.0
2	BM0157	Basics of Geoinformation Systems	5.0
3	BM0581	Fundamentals of Land Management	6.0
4	IV0152	Economics	6.0
5	IV0701	Information Technology and Business Data Analysis	3.0
6	IV0702	Business Intelligence Tools and Methods	3.0
7	IV0762	Business Data Processing Automation	3.0
8	DE0003	Mathematics	13.0
9	IV0331	Principles of Finances	3.0
10	DA7230	Natural Science in Materials and Technologies	9.0
A.3		Field-Specific Professional Study Courses	65.0
1	BM0582	Computer Graphics in Territorial Planning	3.0
2	AD0074	Urban Design, basic principles	3.0
3	IV0457	Urban Economics	6.0
4	IV0449	Planning of Territorial and Urban Infrastructure	6.0
5	IV0455	Planning of Territorial and Urban Infrastructure (study project)	3.0
6	DA0218	Sustainable Regional Energy Supply	3.0
7	DA0217	Sustainable Regional Energy Supply (study project)	3.0
8	IV0012	Risks of Regional Development	4.0
9	IV0262	Public Investment in Regional Development	3.0
10	IV0454	Investment Project for Territory Development (study project)	3.0
11	BM0158	Basic Territorial Planning	5.0
12	IV0270	Territorial Economic Activity	6.0
13	DA0055	Environment and Climate Roadmap	2.0
14	AD0072	Sustainability Principles in Architecture and Construction	3.0
15	IV0410	Building Information Systems and Technologies	6.0
16	IV0697	Business and Labour Law	6.0
B		Compulsory Elective Study Courses	37.0
B1		Field-Specific Study Courses	25.0
1	IV0427	Territorial and Detailed Planning, its Development Strategies	3.0
2	IV0447	Municipal Economic Management	6.0
3	IV0258	Current Trends of the European Union Economic Policy	3.0
4	IV0452	Urban and Regional Socio-economic Problems	3.0
5	IV0278	Real Estate Economics	6.0
6	IV0099	Investments in Real Estate	5.0
7	IV0446	Territorial Marketing	3.0
8	IV0189	Project Management	3.0
9	IV0448	Fundamentals of Regional Planning and Forecasting	6.0
10	IV0456	Planning of Sustainable Urban Environment (study project)	3.0
11	IV0459	Investment Modelling in Economic Activity	3.0
12	AD0076	Site and Infrastructure Development	3.0
B2		Humanities and Social Sciences Study Courses	6.0
1	IV0268	Intercultural Communication	3.0
2	IV0201	Social Responsibility and Business Ethics	3.0
3	IV0707	Personal and Professional Development	3.0
4	IV0760	Personnel Management	3.0
B6		Languages	6.0
1	DE0251	English	6.0
2	DE0247	German	6.0
C		Free Elective Study Courses	9.0

D		Practical Placement	39.0
1	IV0451	Internship	39.0
E		Final Examination	18.0
1	IV0458	Bachelor Thesis Including Project	18.0