



## RĪGAS TEHNISKĀ UNIVERSITĀTE

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15.11.2019 07:25

### 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 Study
Higher education study field	Architecture and Civil Engineering
Head of the study field	Uģis Bratuškins
Deputy head of the study field	Juris Smirnovs
Department responsible	Faculty of Engineering Economics and Management
Head of the study programme	Maija Šenfelde
Professional classification code	2164 09
The type of study programme	Full time, Extramural
Language	Latvian
Accreditation	29.05.2017 - 31.12.2021; Accreditation certificate No 49
Volume (credit points)	160.0
Duration of studies (years)	Full time studies - 4,0; Extramural - 5,0
Degree or/and qualification to be obtained	Professional Bachelor Degree in Regional Development and Urban Economics and Qualification of Engineer in Regional Development
Qualification level to be obtained	The 6th level of European Qualifications Framework (EQF) and Latvian Qualifications Framework (LQF); the 5th level of Latvian Professional Qualifications
Programme prerequisites	General Secondary Education or 4-year Vocational Secondary Education

#### Description

Abstract	<p>Nowadays development of cities and regions has a major impact on economic processes. Therefore there is an increased demand for highly skilled professionals understanding economic processes and technical aspects of urban economics.</p> <p>The current study programme offers an in-depth knowledge in the fields of territorial development planning considering both economic and technical aspects, urban economics and influence of the urbanization process on the development of regions and territories.</p>
Aim	<p>The aim of the programme is to provide professional bachelor education in engineering of regional development and urban economics, in order to ensure an 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>Programme tasks:</p> <ol style="list-style-type: none"><li>1. to provide competitive second-level professional higher education that corresponds to international standards and train students for practical work;</li><li>2. 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;</li><li>3. promote interest in further education, and the development of professional knowledge;</li><li>4. to encourage student interest in public processes, to stimulate students' development as positive, responsible and legally competent personalities who can act independently and autonomously take decisions;</li><li>5. 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;</li><li>6. to promote academic staff and student interaction between scientific research and the practical use of the results obtained;</li><li>7. to foster and develop academic staff and student exchange and participation in international projects.</li></ol>

Learning outcomes	<p>1. is able to independently and responsibly perform professional duties in compliance with the norms and regulations of the Republic of Latvia and the EU in the field of territory development planning;</p> <p>2. is able to plan, organize, control and assess territory development processes;</p> <p>3. is able to perform economic calculations related to the sustainable development of the cities and regions;</p> <p>4. is able 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;</p> <p>5. is able to implement the green economy policy for the sustainable development of the region;</p> <p>6. is able to plan, develop and assess the budget process at the local, regional and state level;</p> <p>7. is able to apply special territory planning software;</p> <p>8. is able to develop and implement both local and international projects for the solution of the region development issues;</p> <p>9. is able to ensure the compliance to the norms and regulations of the occupational safety, fire safety and environment protection;</p> <p>10. is able to creatively cooperate with clients, entrepreneurs, specialists, etc.;</p> <p>11. is able to conduct research of scientific value, to interpret and analyze its results on the issues related to territory development and urban economy.</p>
Final/state examination procedure, assessment	<p>On completion of the programme the student should develop a Bachelor Paper (volume 12 credit points). Bachelor Paper is an independent integrated paper comprising elements of independent research on further development and improvement of the operations of an enterprise or other entity. The Bachelor Paper is reviewed and then defended at a public meeting. It is assessed by the State Examination Commission approved by the Rector of RTU. The Commission acts in accordance with the Regulations approved by RTU Senate. It comprises highly qualified field specialists and academic staff of the Faculty of Engineering Economics and Management.</p>
Description of the future employment	<p>Graduates can develop their careers in state and municipal bodies, work in various business entities etc.</p>
Special enrollment requirements	<p>No specific regulations</p>
Opportunity to continue studies	<p>Master studies</p>

Courses

No	Code	Name	Credit points
<b>A</b>		<b>Compulsory study courses</b>	<b>89.0</b>
<b>A1</b>		<b>General education study courses</b>	<b>12.0</b>
1	IRE710	Introduction to Specialty	1.0
2	IDA700	Basics of Labour Protection	1.0
3	ICA105	Civil Defence	1.0
4	IET703	Research Methodology	2.0
5	IRE717	Legal Aspects of Environmental Management	3.0
6	IVZ745	Technology transfer and product design	2.0
7	IRE303	Model of Functioning of the Economic System (business game)	2.0
<b>A.2</b>		<b>Field specific theoretical basic study courses and IT study</b>	<b>36.0</b>
1	IĀS207	Economic Statistics	2.0
2	IĀS703	Social Economic Processes Mathematical Modelling	2.0
3	IUE218	Computer Science (basic course)	3.0
4	BĢE701	Computer Graphics in Territorial Planning	2.0
5	IET127	Microeconomics	4.0
6	IET104	Macroeconomics	4.0
7	IRE705	Public Sector Economics	3.0
8	ITA708	Topicalities of Nowadays Economy ( study work)	2.0
9	DMS720	Mathematics	8.0
10	MFB105	Physics	6.0
<b>A.3</b>		<b>Field specific professional study courses</b>	<b>41.0</b>
1	AAP305	Urban Design, basic principles	2.0
2	IRE704	Urban Economics	4.0
3	AAP705	Sustainable living environment	2.0
4	IRE711	Planning of Territorial and Urban Infrastructure	4.0
5	IRE712	Planning of Territorial and Urban Infrastructure (study project)	2.0
6	EAS736	Sustainable Regional Energy Supply	2.0
7	EAS737	Sustainable Regional Energy Supply (study project)	2.0
8	IRE709	Risks of Regional Development	3.0
9	IUV456	Accounting and Finances	2.0
10	IRE701	Public Investment in Regional Development	2.0
11	IRE702	Investment Project for Territory Development (study project)	2.0
12	EAS709	Environmental Protection and Recycling Processes	3.0
13	BĢE427	Fundamentals of Land Management	4.0
14	BĢE403	Basic Territorial Planning	3.0
15	ITA705	Territorial Economic Activity	4.0
<b>B</b>		<b>Compulsory elective study courses</b>	<b>27.0</b>
<b>B1</b>		<b>Field-specific study course</b>	<b>19.0</b>
1	EAS713	Territory planning and system thinking	5.0
2	IRE716	Municipal Economic Management	4.0
3	IRE404	Current Trends of the European Union Economic Policy	2.0
4	IRE706	Urban and Regional Socio-economic Problems	2.0
5	IRE302	Real Estate Economics	4.0
6	IBO425	Investments in Real Estate	3.0
7	AAR705	Architecture and Art History	3.0
8	IRE301	Economy of European Countries	3.0
9	ITA706	Territorial Marketing	2.0
10	IVZ743	Strategic Management	2.0
11	IUE125	Project Management	2.0
12	IBO304	Fundamentals of Regional Planning and Forecasting	4.0
13	ITA710	Planning of Sustainable Urban Environment (study project)	2.0
<b>B2</b>		<b>Humanities and social sciences study courses</b>	<b>4.0</b>
1	HSP378	Politolology	2.0
2	HSP375	Sociology of Management	2.0
3	IUV106	Business Communication	2.0
4	IĀS720	Intercultural Communication	2.0
5	IVZ796	Social Responsibility and Business Ethics	2.0
<b>B6</b>		<b>Languages</b>	<b>4.0</b>

1	<a href="#">HDG405</a>	English	4.0
2	<a href="#">HDG404</a>	German	4.0
<b>C</b>		<b>Free elective study courses</b>	<b>6.0</b>
<b>D</b>		<b>Practical Placement</b>	<b>26.0</b>
1	<a href="#">ITA711</a>	Internship	26.0
<b>E</b>		<b>Final examination</b>	<b>12.0</b>
1	<a href="#">IRE713</a>	Bachelor Thesis Including Project	12.0