

LATVIA UNIVERSITY OF LIFE SCIENCES AND TECHNOLOGIES  
FACULTY OF ENVIRONMENT AND CIVIL ENGINEERING  
Department of Land Management and Geodesy

APPROVED  
by the academic staff meeting of  
Department of Land Management and Geodesy  
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## SPATIAL PLANNING

Jelgava

### Programme

Code of the study course at LLU IS Register: **Arhi2056** and **Arhi2057**

3 CP (16h + 32h): lectures - 8h, lab.works – 8h, Course Project - 32h, Examination.

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Compulsory course of the professional Bachelor's degree level study programme "Land Management and Surveying", 2<sup>nd</sup> year 2<sup>nd</sup> semester in full-time studies and 3<sup>rd</sup> year 2<sup>nd</sup> semester in part-time studies.

#### ***Abstract***

The study course "Spatial planning" provides students with the necessary knowledge of the spatial planning and its importance, the spatial planning system and its development in Latvia. Students acquire the knowledge of the spatial planning levels, the components of spatial planning documents, organizational structure of their development, the sequence and methodology of development.

#### ***The aim of the study course:***

The aim of the study course is to explain the basics of territorial planning at different levels of planning and its role in the development of administrative territories.

#### ***Learning outcomes (knowledge, skills and competence):***

After completing the course students will have:

- **Knowledge** about the legal aspects of spatial planning, as well as the development methods of planning documents;
- **Skills** how to apply the knowledge of spatial development with the aim to work out spatial plans;
- **Competence** to independently access, select and analyse information and data; to use the acquired knowledge and practical skills in the process of spatial planning and the development of spatial planning documents.

#### ***Relation of the study course with other subjects:***

Students should have the prior knowledge in study courses "Cadastré", "Computer graphics in land management and surveying".

***Requirements for individual work:***

Individual studies of the theoretical material included in the bibliography, legislative acts, revision of the information from laboratory works while elaborating the course project.

***Assessment of knowledge:***

Test No1: General questions of spatial planning. Spatial planning system. Territorial planning at national and regional level.

Test No 2: Territorial development at the level of local governments. Information system of spatial development planning.

***Requirements for the admission to the examination:***

The assessment of the examination is based on accumulative evaluation:

- Test No1 – 25 points,
- Test No 2 – 25 points,

5 points form 1 evaluation point

***Procedure and requirements for settling missed lectures:***

The missed laboratory works and rewriting of the tests should be settled by making an appointment with a lecturer.

## **Extended content of the programme**

**Introduction.** The study course, its content and relation with other study courses. The structure and requirements. The list of special literature and legislative basis. Key concepts in spatial planning.

**The aim, main tasks and basic principles of spatial planning.** The purpose of territorial development planning. The main tasks. Basic principles to be followed in the planning of the territory.

**Development planning system.** Development planning system. Types of development planning documents, their deadlines and their mutual hierarchy. Spatial planning levels and their interrelation. Competence of public institutions in planning of territorial development.

**Planning of territorial development in national level and planning regions' level.**

Territorial development planning documents at the national level. Planning regions. Territorial development planning documents of planning region.

**Territorial development planning at the level of the local government.**

Sustainable development strategy and development programme. Sustainable development strategy, its components, content and approval procedure. Development programme, its contents and approval procedure. Regional Development Indicator Module (RAIM) and its role in working out development planning documents.

Spatial planning of the territory of the local government. The general concept of spatial planning. Components and content of a spatial plan. The procedure for elaboration of the spatial plan. The procedure of spatial plan's public discussion, approval, consent and entry into force.

Local plan and thematic plan. A general concept of the local plan, its components. Procedure for the development, approval and entry into force of the local plan. A general concept of thematic planning. Application of thematic plans.

Functional zoning of a territory and types of use. A general concept of functional zoning. Functional zones, sub-zones and conditions for their determination. The main and additional uses of the territory in functional zones. Classification of the use of the territory.

General requirements for territorial planning and use. General requirements on the whole for the planning and use of areas of all municipalities. General requirements for the planning and use of individual municipal territories.

**Territorial development planning information system.** A general concept of territorial development planning information system (TAPIS). The aim of launching TAPIS. The main principles of TAPIS.

### **List of laboratory works:**

1. Distribution of a territory according to the current use using ArcGIS and Bentley MicroStation software.
2. Identification and reflection of populated areas and transport infrastructure objects.
3. Identification and reflection of protection zones using the Bentley MicroStation software.
4. Municipal road assessment, division into groups and reflection in ArcGIS software.
5. Identification and reflection of territories with special conditions.
6. The development of prospective functional zoning.

### **Course Project**

The objective of the course project is to evaluate the indicators characterizing the territory of a municipality (geographical location, socio-economic conditions), land areas and their distribution; identify the objects of social, production and transport infrastructure and their location, settlement structure, encumbered territories and objects; identify and display areas with special conditions, develop the functional zoning of the territory, prepare explanatory article and graphic part using ArcGIS and Bentley MicroStation software.

### **Bibliography**

#### ***Compulsory reading:***

1. Auziņš A. Zemes pārvaldības pamati: mācību grāmata. Rīga: RTU Izdevniecība, 2008. 107 lpp.
2. Auders M. Sabiedrības iesaistīšana pašvaldību teritorijas plānošanas procesā, 2008., 15 lpp.
3. Briņķis J., Buka O. Teritoriālā plānošana un pilsēt būvniecība. Rīga, 2001. 219 lpp.
4. Briņķis J., Buka O. Pilsētu un lauku apdzīvoto vietu kompleksu arhitektoniski telpiskā plānošana: mācību grāmata. Rīga: RTU, 2006. - 236 lpp.
5. Ieteikumi pašvaldību attīstības plānošanai: Rīga, Pašvaldību mācību centrs, 2000,- 142.lpp.
6. Latvijas ilgtspējīgas attīstības stratēģija līdz 2030.gadam (www.latvija2030.lv)

#### ***Further reading and sources of information:***

1. Reģionu attīstība Latvijā 2010. Valsts reģ. attīst. aģentūra. Rīga, 2011. 171 lpp.
2. Guidelines for Land – use Planning// FAO Development Series I / Rome, - 1993.
3. Rural Change and Planning. England and Wales in the Twentieth century. G.,E. Chery, A. Rogers. –London, 1996. –229 p.
4. Attīstības plānošanas sistēmas likums (08.05.2008.)
5. Teritorijas attīstības plānošanas likums (13.10.2011.),

6. Reģionālās attīstības likums (21.03.2002.)
7. Noteikumi par plānošanas reģionu teritorijas attīstības plānošanas dokumentiem, MK not. Nr.402, (16.07.2013.)
8. Noteikumi par pašvaldību teritorijas attīstības plānošanas dokumentiem, MK not. Nr.628, (14.10.2014.),
9. Vispārīgie teritorijas plānošanas, izmantošanas un apbūves noteikumi, MK not.Nr.240 (30.04.2013.),
10. Aizsargjoslu likums (05.02.1997.)
11. Teritorijas attīstības plānošanas informācijas sistēmas noteikumi, MK not.Nr.392, (08.07.2014.)

***Recommended periodicals:***

1. Latvijas Arhitektūra: Arhitektūras, dizaina un vides apskats.