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**Federal State Autonomous Educational Institution of Higher Education  
Peoples' Friendship University of Russia named after Patrice Lumumba  
RUDN University**

**Agrarian and Technology Institute**

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educational division (faculty/institute/academy) as higher education programme developer

## **COURSE SYLLABUS**

### **Urban design**

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course title

**Recommended by the Didactic Council for the Education Field of:**

### **35.03.09 landscape architecture**

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field of studies / speciality code and title

**The course instruction is implemented within the professional education programme of higher education:**

### **Management and design of urban green infrastructure**

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higher education programme profile/specialisation title

## 1. COURSE GOAL(s)

The goal of the course “Urban design” is to provide students with a comprehensive understanding of ecological principles in urban and landscape design and to develop their ability to apply these principles in contemporary urban contexts

## 2. REQUIREMENTS FOR LEARNING OUTCOMES

The completion of the course “Urban design” is aimed at the formation of the following competencies (or components of competencies) in students:

*2.1 Upon completion of the Educational Programme, the graduate is expected to acquire the following Generic Competences (GCs):*

<b>Code and descriptor of generic competence</b>	<b>Code and competence level indicator</b>
GC-1 Able to search, critical analysis problem situations based on a systematic approach, develop an action strategy	GC--1.1 Able to apply systematization to solve problems; GC--1.2. Capable of searching and analyzing information;
GC-3 Able to organize and manage the work of the team, developing a team strategy to achieve the goal	GC--3.1. Able to organize team work on a project; GC--3.2Able to interact with executive authorities to coordinate all stages of design;
GC-4 Able to apply modern communication technologies in the state language of the Russian Federation and foreign language (s) for academic and professional interaction	GC--4.1. Able to prepare all the necessary documentation for the project in Russian and foreign languages; GC--4.2. Able to communicate on the project in Russian and foreign languages;
GC-5 Able to analyze and take into account the diversity of cultures in the process of intercultural interaction	GC--5.1 Able to delve into the peculiarities of the social organization of society, the specifics of the mentality and moral outlook of the cultures of the West and East; GC--5.2 Able to overcome cultural barriers by perceiving intercultural differences;
GC-6 Able to determine and implement the priorities of their own activities and ways to improve them on the basis of self-esteem	GC--6.1. Able to plan his life activities for the period of study in an educational organizations; GC--6.2. Able to determine the tasks of self-development and professional growth, distribute them into long-term and short-term ones with justification of their relevance and determination of the necessary resources;

*b. Upon completion of the Educational Programme, the graduate is expected to acquire the following general professional competences (GPCs):*

<b>Code and descriptor of general professional competence</b>	<b>Code and competence level indicator</b>
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GC-1 Able to search, critical analysis problem situations based on a systematic approach, develop an action strategy	GC--1.1 Able to apply systematization to solve problems; GC--1.2. Capable of searching and analyzing information;
GPC-2 Ability to transfer professional knowledge using modern pedagogical methods.	GPC-2.1 — Ability to transfer professional knowledge. GPC-2.2 — Ability to transfer professional knowledge using information technologies.
GC-3 Able to organize and manage the work of the team, developing a team strategy to achieve the goal	GC--3.1. Able to organize team work on a project; GC--3.2Able to interact with executive authorities to coordinate all stages of design;
GC-4 Able to apply modern communication technologies in the state language of the Russian Federation and foreign language (s) for academic and professional interaction	GC--4.1. Able to prepare all the necessary documentation for the project in Russian and foreign languages; GC--4.2. Able to communicate on the project in Russian and foreign languages;
GC-5 Able to analyze and take into account the diversity of cultures in the process of intercultural interaction	GC--5.1 Able to delve into the peculiarities of the social organization of society, the specifics of the mentality and moral outlook of the cultures of the West and East; GC--5.2 Able to overcome cultural barriers by perceiving intercultural differences;

*c. Upon completion of the Educational Programme, the graduate is expected to acquire the following professional competences (PCs)\* :*

PC-10 Ability to develop research plans and programs in landscape architecture, organize collection, processing, analysis, and systematization of scientific and technical information, and select appropriate methods and tools.	PC-10.1 — Ability to organize collection, processing, analysis, and systematization of scientific and technical information and select research methods. PC-10.2 — Ability to develop research plans and programs in landscape architecture.
PC-3 Ability to evaluate the impact of landscape management measures considering improvements in quality and safety of the human environment.	<b>PC-3.1</b> — Ability to organize sustainable management of landscape improvement sites. <b>PC-3.2</b> — Ability to monitor the condition of landscape improvement sites.

### 3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

MATRIX OF COMPETENCES that students acquire when mastering the Educational Programme “Blue-green infrastructure for sustainable cities” in the field of studies / speciality 35.04.09 Landscape Architecture

*Table 3.1. List of components of higher education that contribute to the achievement of the planned results of discipline*

<b>Code and descriptor of generic competence</b>	<b>Competence</b>	<b>Previous disciplines/modules, pr</b>
GC-4	Ability to conduct research, analyse results and prepare reporting documents;	Landscape planning and sustainable development
GC-3	Ability to develop and implement new effective technologies in professional activities;	Landscape planning and sustainable development
GC-5	Ability to conduct research, analyse results and prepare reporting documents;	Landscape planning and sustainable development
GC-1	Able to search, critical analysis problem situations based on a systematic approach, develop an action strategy	Landscape planning and sustainable development
GC-6	Able to determine and implement the priorities of their own activities and ways to improve them on the basis of self-esteem	Landscape planning and sustainable development
GC-1	Able to search, critical analysis problem situations based on a systematic approach, develop an action strategy	Landscape planning and sustainable development
GC-2	Ability to transfer professional knowledge using modern pedagogical methods	Landscape planning and sustainable development
GC-3	Able to organize and manage the work of the team, developing a team strategy to achieve the goal	Landscape planning and sustainable development
GC-4	Able to apply modern communication technologies in the state language of the Russian Federation and foreign language (s) for academic and professional interaction	Landscape planning and sustainable development
GC-5	Able to analyze and take into account the diversity of cultures in the process of intercultural	Landscape planning and sustainable development
PC-10	Ability to develop research plans and programs in landscape architecture, organize collection,	Landscape planning and sustainable development

	processing, analysis, and systematization of scientific and technical information, and select appropriate methods and tools	
PC-3	Ability to evaluate the impact of landscape management measures considering improvements in quality and safety of the human environment.	Landscape planning and sustainable development

#### 4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course is 4 credits (144 academic hours).

Table 4.1. Types of academic activities during the periods of higher education programme mastering (full-time training)\*

Type of academic activities	Total academic hours	Semesters/training modules				
		1	2	3	4	
<i>Contact academic hours</i>	51	-	-		-	
including:						
Lectures (LC)	17	-	-	17	-	
Lab work (LW)	34	-	-	34	-	
Seminars (workshops/tutorials) (S)		-	-	-	-	
<i>Self-studies</i>	73	-	-	73	-	
<i>Evaluation and assessment (exam/passing/failing grade)</i>	20	-	-	20	-	
<b>Course workload</b>	academic hours_	<b>144</b>	-	-	<b>144</b>	-
	credits	<b>4</b>	-	-	<b>4</b>	-

#### 5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
Module 1: Introduction to Urban Design	Topic 1.1. Theoretical Foundations of Urban Design	LC, LW
	Topic 1.2. Urban Morphology and Spatial Structure	LC, LW
Module 2 Urban Environment and Human Behavior	Topic 2.1. Public Spaces in the Urban Environment	LC, LW
	Topic 2.2. Social and Behavioral Aspects in Urban Design	LC, LW
	Topic 2.3. Street Design	
Module 3 Urban Environment and Human Behavior	Topic 3.1. Green Infrastructure and Urban Sustainability	LC, LW
	Topic 3.2. Future Cities and Adaptive Urbanism	LC, LW
	Topic 3.3. Sustainable Transportation and Mobility	LC, LW

Course module title	Course module contents (topics)	Academic activities types
	Topic 3.4. Smart Cities	

\* - to be filled in only for full-time training: *LC* - lectures; *LW* - lab work; *S* - seminars.

## 6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

*Table 6.1. Classroom equipment and technology support requirements*

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
Lecture	A lecture hall for lecture-type classes, equipped with a set of specialised furniture; board (screen) and technical means of multimedia presentations.	
Lab work	A classroom for laboratory work, individual consultations, current and mid-term assessment; equipped with a set of specialised furniture and machinery.	List of specialised laboratory equipment, machinery, stands, etc.
Self-studies	A classroom for independent work of students (can be used for seminars and consultations), equipped with a set of specialised furniture and computers with access to the electronic information and educational environment.	

## 7. RESOURCES RECOMMENDED FOR COURSE STUDY

### *Main readings:*

1. **Beatley, T.** *Green Urbanism: Learning from European Cities*. Washington, DC: Island Press.
2. **Register, R.** *Ecocities: Rebuilding Cities in Balance with Nature*. New Society Publishers.
3. **Mostafavi, M., Doherty, G. (eds.)** *Ecological Urbanism*. Harvard University Graduate School of Design.
4. **Newman, P., Beatley, T., Boyer, H.** *Resilient Cities: Overcoming Fossil Fuel Dependence*. Island Press.
5. **Gehl, J.** *Cities for People*. Island Press.

### *Additional readings:*

1. **Lynch, K.** *The Image of the City*. MIT Press.
2. **Jacobs, J.** *The Death and Life of Great American Cities*. Random House.
3. **McHarg, I.** *Design with Nature*. Wiley.
4. **Corner, J. (ed.)** *Recovering Landscape*. Princeton Architectural Press.
5. **UN-Habitat.** *Global Report on Human Settlements*.
6. **European Environment Agency.** Reports on sustainable urban development and green infrastructure

*Internet sources*

1. Electronic libraries (EL) of RUDN University and other institutions, to which university students have access on the basis of concluded agreements:

- RUDN Electronic Library System (RUDN ELS) <http://lib.rudn.ru/MegaPro/Web>
- EL "University Library Online" <http://www.biblioclub.ru>
- EL "Yurayt" <http://www.biblio-online.ru>
- EL "Student Consultant" [www.studentlibrary.ru](http://www.studentlibrary.ru)
- EL "Lan" <http://e.lanbook.com/>
- EL "Trinity Bridge"
- .....

2. Databases and search engines:

- electronic foundation of legal and normative-technical documentation <http://docs.cntd.ru/>
- Yandex search engine [https:// www .yandex.ru/](https://www.yandex.ru/)
- Google search engine <https://www.google.ru/>
- Scopus abstract database <http://www.elsevierscience.ru/products/scopus/>

*Training toolkit for self- studies to master the course \*:*

1. The set of lectures on the course “Urban design ”
2. A laboratory workshop on the course “Urban design ” (if laboratory classes are предусмотрены / if applicable).
3. The guidelines for writing a course paper / project on the course “Urban design (if a course paper / project is/ if applicable).

\* The training toolkit for self- studies to master the course is placed on the course page in the university telecommunication training and information system under the set procedure.

**8. ASSESSMENT TOOLKIT AND GRADING SYSTEM\* FOR EVALUATION OF STUDENTS’ COMPETENCES LEVEL UPON COURSE COMPLETION**

The assessment toolkit and the grading system\* to evaluate the competences formation level (competences in part) upon the course study completion are specified in the Appendix to the course syllabus.

\* The assessment toolkit and the grading system are formed on the basis of the requirements of the relevant local normative act of RUDN University (regulations / order).

**DEVELOPERS:**

**Assistant of the Department of  
Landscape Planning and Urban  
Ecology**

**Borisova E. A.**

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position, department

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signature

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name and surname

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position, department

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signature

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name and surname

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position, department

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signature

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name and surname

**HEAD OF EDUCATIONAL DEPARTMENT:**

**Director of the Department of  
Landscape Planning and Urban  
Ecology**

**Dovletyarova E. A.**

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name of department

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signature

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name and surname

**HEAD  
OF HIGHER EDUCATION PROGRAMME:**

**Director of the Department of  
Landscape Planning and Urban  
Ecology**

**Dovletyarova E. A.**

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position, department

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signature

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name and surname