Federal state autonomous educational institution higher education

" RUSSIAN UNIVERSITY OF FRIENDSHIP OF PEOPLES " (RUDN)

PROGRAM

Discipline title

International regulation in city-planning and environmental protection

Recommended for the educational direction

35.04.09 Landscape architecture,

profile "Management and design of urban green infrastructure"

1. Goals and objectives of the discipline:

The goal is to acquire theoretical and practical skills in the analysis of international interaction in urban planning and environmental protection Tasks:

- to master the basic concepts and principles of ecology of cities and settlements;
- to study environmental factors in an urbanized environment;
- master the national and regional trends in urban planning and environmental protection;
- to identify the main tendencies and trends of international cooperation in the field of urban planning and environmental protection;
- to predict the development of international cooperation in the field of urban planning and environmental protection;

2. Place of discipline in the structure of EP VO:

The discipline International regulation in city-planning and environmental protection refers to the basic (basic or variable) part of block ____1___ (block 1, block 2) of the curriculum.

Table 1 shows the previous and subsequent disciplines aimed at the formation of discipline competencies in accordance with the competence matrix of EP HE. Table 1

Prior and subsequent disciplines aimed at the formation of competencies

№	Code and name of competence	Prior disciplines	Subsequent disciplines (groups of disciplines)
Comn	non cultural competence	es	
1.	(OK-1,2,3)		
		Economy of city-	-
		services	
		_	
Gener	al Professional Compet	ences	
1.	(ОПК-1,2,3)		
		Economy of city-	-
		services	

Profes	ssional competencies				
1.	(ПК-10,18)				
		Economy	of	city-	-
		services			

3. Requirements for the results of mastering the discipline:

The process of studying the discipline is aimed at the formation of the following competencies:

Universal competences:

- Able to search, critical analysis problem situations based on a systematic approach, strategize (UC-1);
- Able to organize and direct work teams, developing a team strategy for achieving the set goal (UC-3).
- Able to apply modern communication technologies in the state language of the Russian Federation and foreign language (s) for academic and professional interaction (UC-4).
- Able to analyze and take into account diversity cultures in the process of intercultural interaction (UC-5).
- Able to identify and implement priorities own activities and ways to improve it self-assessment (UC-6).

General professional competencies (GPC):

- Able to analyze modern problems of science and production, to solve complex (non-standard) tasks in professional activity; (GPC-1);
- Able to analyze modern problems of science and production, to solve complex (non-standard) tasks in professional activity; (GPC-2);
- Able to develop and implement new effective technologies in professional activities; (GPC-3);
- •Capable of conducting scientific research, analyze the results and prepare reporting documentation; (GPC-4);
- Able to carry out technical and economic justification of projects in professional activities; (GPC-5);
- Able to manage teams and organize production processes. (GPC-6);

professional competencies (PC):

- the ability to develop work plans and programs for scientific research in the field of landscape architecture, the ability to organize the collection, processing, analysis and systematization of scientific and technical information on the research topic, the choice of methods and means of solving problems (PC-17):
- readiness to develop (based on existing standards) methodological and regulatory documents for the design of landscape architecture objects (PC-24):

As a result of studying the discipline, the student must:

Know:

- methods of planning and conducting research, collecting and interpreting the data obtained and presenting research results;
- problems and trends in the development of science and technology
- the main theses of the national and regional policy in the field of urban planning and environmental protection;
- basic principles of international cooperation in the field of urban planning and environmental protection;
- the main international organizations implementing the policy of international monitoring of urban planning and environmental protection.

Be able to:

- it is logical to formulate, state and reasonably defend their own vision of the problems under consideration;
- plan and conduct research, systematize and interpret the data obtained and present the results of the research;

Own:

- methods of scientific knowledge;
- methods of discussion, polemics, dialogue;
- -the methods of forecasting and modeling;
- methods of presenting research results.

4. Discipline volume and types of educational activities

General labour-intensiveness of the discipline amounts to 6 ETCS

Educational activity	Total	Seme	esters		
	hours				
Audience hours (in total)	60			3	4

Including:	-	-	-	-	-
Lectures	28			2	2
Laboratory work (LW)					
Seminars (S)	32			2	2
Individual work (in total)					
Including:	48			2	2
Course project (work)	216			2	2
	6				

5. Content of the discipline

5.1. Contents of discipline sections

No	Section name	Section content
1.	Introduction to the	City-planning and environmental protection as global
	course.	and national trends. Connections of environmental
	Basic terms: city-	issues with other areas in the development of cities
	planning,	Modern and ancient cities.
	urbanizations, urban	Urbanization as a processes of city expansion and
	ecosystems,	urban development
	environmental	Nature urbanization as transformation of natural
	protection	landscapes into urban infrastructure
		Functional and formal approaches to define the term
	History and actuality	«city»
	of the problem	
2.	Participation of	Main conventions, protocols, documents,
	international	agreements.
	organizations in city-	International organizations in city-planning and
	planning and	environmental protection: possible projects to
	environmental	increase the value of international organizations.
	protection.	
	International legal	
	framework	
3.	Structure of	Current realities and trends in the development of
	regulation of city-	socio-economic processes of urbanization;
	planning (national,	Opportunities, resources and limitations of urban
	regional, municipal)	development proper as a form of technical support
	in Russia	for urbanization processes;
		Problems and perspectives of housing and communal

		services and the construction complex, directly related to urban development in the processes of horizontal technological cooperation.
4.	City-planning in EU: goals, problems and principles of policy	Urban development; Urban dimension of cohesion policy; What is integrated sustainable urban development?; Objectives for 2014-2020; The Urban Agenda for the EU; Regional Policy
5.	City-planning in EU: goals, problems and principles of policy	Wildlife; Deforestation and Logging; Energy; Nuclear energy; Pollution; Water pollution; Air pollution; Other forms of pollution; Soil erosion; State initiatives on increasing policy.
6.	Environmental protection in EU: goals, problems and principles of policy	Environmental law; Green policy: Safeguarding the health and wellbeing of people living in the EU; Global challenges;
7.	International cooperation of Russia and EU in city- planning and environmental protection	Forms of international cooperation in the field of
8.	Global risks in city- planning and environmental protection.	Disaster risk reduction. Possible ways to avoid the risks.

5.2. Разделы дисциплин и виды занятий

No	Name of the discipline section	Lect.	Pract	Lab	Sem.	Ind.	Tot.
						wor	
						k	

1.	Introduction to the course.	4	4	6	14
	Basic terms: city-planning,				
	urbanizations, urban ecosystems,				
	environmental protection				
	History and actuality of the				
	problem				
2.	Participation of international	2	4	5	11
	organizations in city-planning and				
	environmental protection.				
	International legal framework				
3.	Structure of regulation of city-	4	4	6	14
	planning (national, regional,				
4	municipal) in Russia	4	4		1.4
4.	City-planning in EU: goals,	4	4	6	14
_	problems and principles of policy	4	4	0	15
5.	Environmental protection in Russia:	4	4	9	17
	goals, problems and principles of				
	policy	4	4	(1.4
6.	Environmental protection in EU:	4	4	6	14
	goals, problems and principles of				
7	policy	2	4	(12
7.	International cooperation of Russia	2	4	6	12
	and EU in city-planning and				
0	environmental protection	2	1		12
8.	Global risks in city-planning and	2	4	6	12
	environmental protection.				

7. Laboratory work

№	Name of the	Name of the laboratory work	Hours
	discipline		
	section		
1.	Introduction	- Basic terms.	2
	to the course.	 History and actuality of the problem. 	2
	Basic terms:		
	city-planning,		
	urbanizations,		
	urban		
	ecosystems,		

	environmental protection		
2.	Participation of international organizations in city- planning and environmental protection. International legal framework	 Main conventions, protocols, documents, agreements. Possible projects to increase the value of international organizations 	2 2
3.	Structure of regulation of city-planning (national, regional, municipal) in Russia	 Current realities and trends in the development of socio-economic processes of urbanization. Problems and perspectives. 	2 2
4.	City-planning in EU: goals, problems and principles of policy	 Urban dimension of cohesion policy. Urban development The Urban Agenda for the EU. 	1 2 1
5.	Environmenta 1 protection in Russia: goals, problems and principles of policy		1 1 1 1
6.	Environmenta 1 protection in EU: goals, problems and principles of policy	 Environmental law. Safeguarding the health and wellbeing of people living in the EU. 	2 2

7.	International	- Forms of international cooperation in the field	4
	cooperation of	of city-planning and environmental protection.	
	Russia and		
	EU in city-		
	planning and		
	environmental		
	protection		
8.	Global risks	 Disaster risk reduction. 	2
	in city-	 International terrorism. 	2
	planning and		
	environmental		
	protection.		

8. Practical classes (seminars) - not provided.

8. Material-technical support of the discipline:

For conducting lecture-type classes, laboratory classes, group and individual consultations, monitoring and interim attestation, course design (coursework), the practice requires a classroom equipped with:

- standard equipment (educational furniture for students, teacher's workplace, blackboard);
- computers, connected to the information and telecommunication network "Internet", access to the electronic library UNIBTS (NB) RUDN (lib.rudn.ru), software ARCHICAD, AutoCAD, SketchUp;
- multimedia installation (PC, screen, projector);
- drawing boards, mock-up table, pencils, rulers, rapidographs.
- б) базы данных, информационно-справочные и поисковые системы:

Телекоммуникационная учебно-информационная система (ТУИС): http://esystem.pfur.ru/

http://quakes.globalincidentmap.com/,

http://www.globalincidentmap.com/,

 $http://earthquake.usgs.gov/earthquakes/recenteqsww/Quakes/quakes_all.php,$

http://www.tesis.lebedev.ru/forecast_activity.html

Электронно-библиотечная система РУДН – ЭБС РУДН:

http://lib.rudn.ru:8080/MegaPro/Web

Учебный портал РУДН (http://web-local.rudn.ru);

Университетская библиотека онлайн: http://www.biblioclub.ru

Национальный цифровой ресурс "РУКОНТ": http://rucont.ru

IQlib: http://www.iqlib.ru

Science Direct: http://www.sciencedirect.com

EBSCO: http://search.ebscohost.com

Sage Publications: http://online.sagepub.com Springer/Kluwer: http://www.springerlink.com Tailor & Francis: http://www.informaworld.com Web of Science: http://www.isiknowledge.com

Университетская информационная система РОССИЯ:

http://www.cir.ru/index.jsp

Учебный портал РУДН: http://web-local.rudn.ru/ Консультант студента http://www.studmedlib.ru

10. Educational and methodological support of the discipline:

a) main literature:

Kurbatova A.S., Bashkin V.N., Kasimov N.S. «Ecology of a city». – M.: 2004 – 624 p (in Russian).

Denisov V.V., Kurbatova A.S., Denisova I.A., Bondarenko V.L., Gracheva V.A., Gutenev V.V., Nagnibeda B.A. «Ecology of a city». M.: Rostov on Don: 2008-832 p.(in Russia).

Alberti M. Advances in city-planning: Integrating Humans and Ecological Processes in Urban Ecosystems Springer; 2008 366 p.

R.T.T. Forman. Economy of city: Science of Cities Cambridge University Press 2014. 474 p.

J. Niemela, J. H. Breuste, G.Guntenspergen. Economy of city: Patterns, Processes, and Applications. Oxford University Press; Reprint edition. 2012. 392 p.

б) additional literature:

- 1). Bandaranayake W., Qian Y. L., Parton W. J., Ojima D. S. and Follett R. F., 2003. Estimation of Soil Organic Carbon Changes in Turfgrass Systems Using the CENTURY Model. Agron. J. 95, 558–563.
- 2). Dolgikh, A.V., Aleksandrovskii, A.L., 2010. Soils and cultural layers in velikii Novgorod. Eurasian Soil Science, 43, 477–48.
- 3). Gerasimova, M.I., Stroganova, M.N., Mozharova, N.V., Prokofieva, T.V., 2003. Urban Soils. Oykumena, Smolensk.(in Russian)
- 4). Golubiewski, N.E., 2006. Urbanization Increases Grassland Carbon Pools: Effects of Landscaping in Colorado's Front Range. Ecological Applications 16, 555-571.
- 5). Ilina, I.N. (Eds.), 2000. Environmental atlas of the Moscow city. ABF. Moscow (in Russian)

- 6). Jo, H.K., McPherson E.G., 1995. Carbon Storage and Flux in Urban Residential Greenspace. Journal of Environmental Management 45, 109–133.
- 7). Kaye, J.P., McCulley, R.L., Burkez, I.C., 2005. Carbon fluxes, nitrogen cycling, and soil microbial communities in adjacent urban, native and agricultural ecosystems. Global Change Biology 11, 575-587.
- 8). Lorenz, K., Lal, R., 2009. Biogeochemical C and N cycles in urban soils. Environment International 35, 1–8.
- 10). Pickett, S.T.A., Cadenasso, M.L., Grove, J.M., Boone, C.G., Groffman, P.M., Irwin, E., Kaushal, S.S., Marshall, V., McGrath, B.P., Nilon, C.H., Pouyat, R.V., Szlavecz, K., Troy, A., Warren, P., 2011. Urban ecological systems: scientific foundations and a decade of progress. Journal of Environmental Management 92, 331–362
- 11). Prokofieva, T.V., Stroganova, M.N., 2004. Soils of Moscow city (soils in urban environment, their specifics and environmental significance). Moscow Biological. GEOS, Moscow.
- 12). Scalenghe, R., Marsan, F.A. The anthropogenic sealing of soil in urban areas, 2009. Landscape and urban planning 90, 1-10.
- 13). Vasenev, V.I., Ananyeva, N.D., Makarov, O.A., 2012. Specific features of the ecological functioning of urban soils in Moscow and Moscow oblast. Eurasian Soil Science 45, 194-205.
- 14). Vasenev, V.I., Stoorvogel, J.J., Vasenev I.I., 2013b. Urban soil organic carbon and its spatial heterogeneity in comparison with natural and agricultural areas in the Moscow region. Catena. 107.96-102.
- 15). Vrscaj, B., Poggio, L., Marsan, F., 2008. A method for soil environmental quality evaluation for management and planning in urban areas. Landscape and Urban Planning 88, 81-94

11. Methodical instructions for students on mastering the discipline (module)

The student is required to attend classes, complete the assignments of the discipline teacher, familiarize himself with the recommended literature, etc. During the certification of the student, the quality of work in the classroom, the level of preparation for independent activity in the chosen field, the quality of the assignments of the discipline teacher, the ability to independently study the educational material are assessed.

During practical classes and lectures in classrooms, the relevant topics are analyzed using multimedia technology (computer, projector).

Independent work outside the classroom can take place both in the classrooms of the department and in the computer class, where students can study material on the presentations prepared by the teachers of the department, as well as on computer tests.

Presentations on the topics of the classes can be recorded on a CD or a flash card for self-study of students on a home computer.

Textbooks in electronic form on a number of topics studied are posted on the pages of the department and employees of the Department of Landscape Design and Sustainable Ecosystems of the ATI RUDN University, on the pages of disciplines in TUIS, on the RUDN University Study Portal, as well as on the local resources of the RUDN University electronic library system.

As one of the forms of independent work, preparation of abstracts for various sections of the course is provided.

Extracurricular independent work includes:

study of material from a textbook, teaching aids on paper and electronic media; preparation of an abstract message on a selected topic; preparation for the performance of tests and test tasks.

12. Fund of assessment tools for intermediate certification of students by discipline (module) - Appendix 1.

The program was drawn up in accordance with the requirements of the OS VO RUDN / FGOS.

Developers:	
Ph.D.	
Associate Professor	V.I. Vasenev
Assistant	V.V. Plyushikov
Program manager	
Ph.D.	
Associate Professor	V.I. Vasenev
Department Director	
Landscape design and	
Sustainable Ecosystems	E.A. Dovletyarova

Attachment 1

EVALUATION FUND ACADEMIC DISCIPLINE

International regulation in city-planning and environmental protectionRecommended for referral
04/35/09 "Landscape architecture"

Qualification (degree) of the graduate Master in Landscape Architecture Passport of the fund of assessment tools on the discipline International regulation in city-planning and environmental protection

Specialty: 35.04.09 Landscape architecture

1 семестр

code	ion	ne	Name of the appraisal tool Current control					ool	Intermedia te	Points Topics	Section points
Controlled competence or part thereof	Controlled discipline section	Controlled discipline theme	Colloquium	Test	KP	Д3	Project	Final CD	certificatio n		
	Introduction to the course.	Basic terms: city- planning, urbanizations, urban ecosystems, environmental protection	5			7				12	12
ОК-3, ОК-5, ПК-10, ПК-18	International organizations in city-planning and environmental	Possible projects to increase the value of international organizations. Main conventions, protocols, documents, agreements.				10		15		50	50
	protection.	Current realities and trends in the				10			10		

	development of socio- economic processes of urbanization.							
	The Urban Agenda for			5				
	the EU.							
	Environmental law.	5						
Global risks in	Disaster risk reduction.	10		13			38	38
city-planning								
and								
environmental								
protection.								
	TOTAL				_	offset	87	100

Correspondence of assessment systems (previously used estimates of final academic performance, ECTS scores and point-rating system (BRS) of current performance assessments).

BRS points	Traditional	Ratings
	RF ratings	ECTS
95 - 100	5	A
86 - 94		В
69 - 85	4	С
61 - 68	3	D
51 - 60		Е
31 - 50	2	Fx
0 - 30		F
51-100	Test	Passed

Explanation of the rating table:

Description of ECTS ratings

	"Excellent" - the theoretical content of the course has been fully mastered,
	without gaps, the necessary practical skills of working with the mastered
A	material have been formed, all the training tasks provided for by the training
	program have been fulfilled, the quality of their implementation is estimated
	by the number of points close to the maximum.
	"Very good" - the theoretical content of the course has been fully mastered,
В	without gaps, the necessary practical skills of working with the mastered
	material are mostly formed, all the training tasks provided for by the training
	program are completed, the quality of performance of most of them is
	assessed by the number of points close to the maximum.
	"Good" - the theoretical content of the course is mastered completely,
	without gaps, some practical skills of working with mastered material are not
C	sufficiently developed, all the training tasks provided by the training program
	are completed, the quality of performance of none of them is assessed by the
	minimum number of points, some types of tasks are completed with errors.
	"Satisfactory" - the theoretical content of the course is partially mastered,
	but the gaps are not significant, the necessary practical skills of working with
	the material mastered are mostly formed, most of the training tasks provided
	by the training program are completed, some of the tasks performed may
	contain mistakes.

"Mediocre" theoretical of the the content course is partially mastered, some practical skills formed, many are not the training tasks provided by the training program are not met, or the quality \mathbf{E} of performance of some of them is estimated by the number of points close to the minimum. "Conditionally unsatisfactory" - the theoretical content of the course is partially mastered, the necessary practical skills are not formed, most of the training tasks provided by the training program are not met, or the Fx quality of their implementation is assessed by the number of points close to the minimum; With additional independent work on the course material, it is possible to improve the quality of the performance of educational tasks. "Certainly unsatisfactory" - the theoretical content of the course is not mastered, the necessary practical skills of work are not formed, all the completed training tasks contain blunders, additional independent work \mathbf{F} on the course material will not lead to any significant improvement in the quality of the training tasks.

Positive evaluations, the preparation of which the rate is counted as the learner traversed are estimates A, B, C, D, and E.

FX rated the student on the educational practice of an educational program, after consultation with the appropriate teacher, is obliged to successfully fulfill the required minimum amount of educational work provided for by the program of study, in accordance with the terms established by the educational part, and present the results of this work to this teacher. If the quality of work is found to be satisfactory, then the final assessment of FX is increased to E and the student is allowed to further training.

In the event that the quality of the educational work remains unsatisfactory, the final grade drops to F and the student is submitted for expulsion. In the case of an assessment of F or FX, the student is presented for expulsion regardless of whether he has any other debts in other disciplines.

The program is compiled in accordance with the requirements of OS VO RUDNF / FROS VO.

Questions for the colloquium

by discipline: International regulation in city-planning and environmental protection

1. City-planning: history and actuality of the problem.

- 2. Environmental protection: history and actuality of the problem.
- 3. International organizations in city-planning.
- 4. International organizations in environmental protection.
- 5. Current realities and trends in the development of socio-economic processes of urbanization.

Essay Topics

by discipline:: International regulation in city-planning and environmental protection

- 1. Russian State policy in city-planning.
- 2. Russian State policy in environmental protection
- 3. The Urban Agenda for the EU.
- 4. EU policy in city-planning
- 5. EU policy in environmental protection
- 6. Disaster risk reduction.
- 7. International terrorism.
- 8. International organization in regulation of city-planning and environmental issues