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ФИО: Ястребов Олег Александрович
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**Federal State Autonomous Educational Institution of Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
NAMED AFTER PATRICE LUMUMBA (RUDN University)**

Agrarian Technological Institute

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

FINAL STATE EXAMINATION SYLLABUS

Recommended by the Didactic Council for the Education Field of:

35.04.09 “Landscape Architecture”

field of studies / speciality code and title

**The final state examination is implemented within the professional education program
of higher education:**

Management and Design of Urban Green Infrastructure

higher education programme profile/specialisation title

1. FINAL STATE EXAMINATION GOAL AND TASKS

The goal of the final state examination within the framework of the higher education programme implementation is to check the conformity of the students' training outcomes as the programme results with the relevant requirements of the Federal State Educational Standard of the Higher Education or the RUDN University Educational Standards.

The tasks of the final state examination include the following:

- checking the quality of teaching a person basic humanitarian knowledge, natural science laws and phenomena necessary for professional activities of a graduate;
- identifying the level of theoretical and practical readiness of a graduate to perform professional tasks in compliance with the qualification obtained;
- establishing the degree of a person's desire for self-development, improving his or her qualifications and skills;
- exploring the formation of a graduate's sustainable motivation for professional activities in compliance with the types of tasks of professional activities provided for by the Federal State Educational Standard of the Higher Education or the RUDN University Educational Standards;
- assessing the level of graduates' ability to find organizational and managerial solutions in non-standard situations and evaluating graduates' readiness to bear responsibility for them;
- ensuring the integration of education and scientific and technical activities, increasing the efficiency of scientific and technological achievements use, reforming the scientific sphere and stimulating innovation;
- ensuring the quality of specialists' training in compliance with the requirements of the Federal State Educational Standards of the Higher Education or the RUDN University Educational Standards.

2. REQUIREMENTS FOR HIGHER EDUCATION PROGRAMME COMPLETION AND LEARNING OUTCOMES

A student who does not have failed tests or exams and who has fully completed the curriculum or the individual curriculum of the higher education programme is allowed to the final state examination.

On the higher education programme completion the graduate is expected to master the following **generic competences (GC)**:

Code and descriptor of the generic competences
GC-1 Able to search, critical analysis problem situations based on a systematic approach, develop an action strategy
GC-2 Able to manage a project at all stages of its life cycle
GC-3 Able to organize and manage the work of the team, developing a team strategy to achieve the goal
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-5 Able to analyze and take into account the diversity of cultures in the process of intercultural interaction
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-7 Able to apply a systematic approach in the field information culture.
GC-7.1 Able to search for the necessary sources of information and data, perceive, analyze, memorize and transmit information using digital means, as well as using algorithms when working with data received from various sources in order to effectively use the information

received to solve problems; GC-7.2 Able to evaluate information, its reliability, build logical conclusions based on incoming information and data.
- general professional competences (GPC):
Code and descriptor of the general professional competences
GPC-1 Able to analyze modern problems of science and production, solve complex (non-standard) tasks in professional activities
GPC-2 able to transfer professional knowledge with using modern pedagogical techniques
GPC-3 Able to develop and implement new effective technology in a professional activities
GPC-4 Able to conduct research, analyze the results and prepare reporting
GPC-5 Able to carry out a feasibility study of projects in professional activities
GPC-6 Able to manage teams and organize production processes
GPC-7 Ability to manage a team "Able to critically analyze, apply system approach in the field of digital economy"

- professional competences (PC):
Code and descriptor of the professional competences
PC-1 Readiness to design technological processes for engineering preparation of the territory, construction and maintenance of landscape architecture objects
PC-2 The ability to assess the efficiency of the use of materials, equipment, technological processes at landscape architecture objects
PC-3 The ability to assess the impact of measures for the rational use and management of landscapes, taking into account the improvement of the quality and safety of the human habitat
PC-4 The ability to implement measures for external improvement and landscaping of territories to create favorable sanitary and hygienic conditions, increase the level of comfort of a person's stay in an urban environment, and its general aesthetic enrichment
PC-5 the ability to develop and implement a system of measures for the conservation of plantations in the interests of ensuring the right of every citizen to a favorable environment
PC-6 Readiness to organize work on urban monitoring and inventory at landscape architecture objects, compiling a cadastre of green spaces
PC-9 Ability to organize and carry out all types of work on landscape architecture objects
PC-10 Readiness to manage objects of landscape architecture in the field of their functional use, protection and protection
PC-16 Willingness to acquire new knowledge and conduct applied research in the field of landscape architecture
PC-17 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-18 ability to prepare scientific and technical reports, reviews, publications based on the results of research in the field of landscape architecture

PC-21 the ability to carry out planning organization of open spaces, design of the external environment, design of landscape architecture objects, develop projects for the restoration and reconstruction of territories of cultural heritage sites

PC-22 readiness to participate in the project activities of organizations, to work in a team of specialists related to the sustainable development of territories at the stage of territorial planning and preparation of master plans for settlements and urban agglomerations

PC-24 Readiness to develop (based on existing standards) methodological and regulatory documents for the design of landscape architecture objects

3. FINAL STATE EXAMINATION PROCEDURE

The final state examination can be conducted both in in-person format (students and the state examination committee are at RUDN University during the examination), and through the use of distance learning technologies (DLT) available in the RUDN Electronic Information and Educational Environment.

The procedure for in-person or DLT-facilitated final state examination is regulated by the relevant local normative act of the RUDN University.

The final state examination within the framework of the higher education programme includes:

- state exam
- defence of the graduation qualifying paper (degree thesis).

4. STATE EXAM PROCEDURE

The total workload of the State Exam is 6 credits.

The state exam is held in one or more disciplines and (modules) of the higher education programme, whose mastery bears a decisive importance for graduates' occupational performance.

The state exam is held in two stages:

The first stage includes the assessment of the level of a graduate's theoretical training in the form of **computer testing** through the tools available in the RUDN Electronic Information and Educational Environment (EIEE).

The second stage focuses on the assessment of the graduate's practical preparation for future occupational activities in the form of **solving work-related situational problems (cases)**.

In order to prepare students for taking the state exam, the head of the educational programme (no later than one calendar month before the start of the final state examination) shall familiarise the graduate students with the final state examination syllabus, the comprehensive list of theoretical issues included in the state exam, examples of work-related (occupational) situational tasks (cases) that the students will have to solve in the process of taking the state exam, as well as with the procedure for each stage of the state exam and the grading system for evaluating its results (with assessment materials).

Before the state exam, students are offered consultations on issues and tasks included in the state exam (mandatory pre-exam consultation).

The procedure for conducting the final state examination is follows:

1. The state exam is held in 2 parts: test and written. 60 minutes are allotted for the test, 150 minutes are given for the examination.
2. Test consists on 50 questions created from the question bank. Passing the test (51% or more) give the possibility to the student to pass the written part of the exam.
3. The exam tickets include 4 questions. Evaluated the completeness and correctness of the answer, literacy presentation. The maximum score for each question is 25. The maximum number of points for the exam - 100.

5. REQUIREMENTS FOR GRADUATION QUALIFYING PAPER (DEGREE THESIS) AND PROCEDURE FOR ITS DEFENCE

The degree thesis is a graduation qualifying paper that the student (several students in a team) prepare to demonstrate his/her/their level of competence and work readiness.

The list of degree theses themes offered to students for further work is approved by the order of the head of the educational division (faculty/institute/academy) that runs the higher education programme, the respective information is delivered to the students by the programme head no later than six months before the date of the final state examination start.

The student who has passed the state exam is admitted to defend the graduation degree thesis (if there is a state exam in the final state examination procedure).

The student (students) is/are allowed to defend his/ her/their thesis only if this fully completed degree paper is signed by the respective graduate (s), the supervisor, the consultant (if any), the heads of the educational department and educational division; the thesis is also subject to the external review procedure (mandatory for master's and specialist's programmes) and the plagiarism check (in the "Anti-plagiarism" system). The review of the graduation qualifying paper supervisor shall be attached as well, with a specific emphasis laid on the graduate's activities in the course of the degree thesis drafting.

No later than 14 days before the date of the thesis defence, a rehearsal of the procedure is held at the presence of the degree thesis supervisor and other academic staff of the educational department, in order to timely identify and eliminate shortcomings in the structure, content and design of the degree thesis.

The degree theses are introduced to the State Examination Board members at the public defence procedure. It includes the students' oral reports with mandatory multimedia (graphic) presentations that introduce the thesis main content.

At the end of the reports, the students reply orally to the State Examination Board members' questions regarding the subject, structure, content of the paper and the profile/specialisation of the higher education programme. The reports and / or answers to the Board members' questions may be delivered in a foreign language.

The stages of the graduation qualifying paper preparation, the requirements for its structure, volume, contents and design, as well as the list of mandatory and recommended documents submitted for defence are specified in the relevant guidelines.

The evaluation of the degree thesis defense results is carried out in accordance with the methodology set forth in the assessment toolkit that is specified in the Appendix to the syllabus.

6. REQUIREMENTS FOR EQUIPMENT AND TECHNOLOGY SUPPORT FOR FINAL STATE EXAMINATION

Material and technical support of internship will be provided by usage all the necessary field and lab equipment, computer classes, specialized audience and library funds of RUDN and enterprises the internship is based on QGIS, R, MS Office (Word, Excel, Power Point), access to the web-libraries Scopus and Web of Science and other professional software depending on the practical tasks. The program of educational practice, developed by the Department of Landscape Design and Sustainable Ecosystems of the Agrarian- Technological Institute of the RUDN University.

7. RESOURCES RECOMMENDED FOR FINAL STATE EXAMINATION

Main readings to prepare for the state exam and/or degree thesis defence:

1. M.I. Gerasimova, M.N. Strogonov, N.V. Mozharova, T.V. Prokofiev "Anthropogenic soil" - M: 2003 - 268 p.
2. Denisov V.V., Kurbatov A.S., Denisova I.A., Bondarenko V.L., Grachev V.A., Gutenev V.V., Nagnibeda B.A. "Ecology of the city". M.: Rostov n / a: 2008-832 p.
3. A.S. Kurbatov, V.N. Bashkin, N.S. Kasimov "Ecology of the city". - M.: 2004 - 624 p.
4. Kurbatov V.Ya. A General History of Landscape Art. Gardens and Parks of the World.- M., 2007.
5. Ozhegov S.S. History of landscape architecture. -M., 2004.
6. Sokolskaya OB Landscape art. Formation and development: Textbook. 2nd ed., Pererab. and add. - SPb.: "Lan" publishing house, 2013.-552c.
7. Theodoronsky V.S. Landscape gardening. Textbook for universities. M. MGUL 2003.- 335s.
8. Theodoronsky V.S., Sabo E.D., Frolova V.A. Construction and operation of landscape architecture objects. M. Izd., "ACADEMY" - 2008 348c.
9. Fatiev M.M., Theodoronsky V.S. Construction and operation of urban landscaping. Tutorial. M.: FORUM, 2011. - 240 p.
10. Fatiev M.M. Construction of urban landscaping facilities. Textbook. Publishing Forum; SIC INFRA-M Moscow. 2012.- 208 p.
11. Ecology - Textbook. manual / Ed. S.A. Bogolyubov. M: Knowledge, 1997.
12. Ecology, environmental protection, environmental safety / Ed. IN AND. Danilov-Danilyana. M.: Publishing house MNEPU, 1997

Additional readings to prepare for the state exam and/or degree thesis defence:

1. Vladimirov V.V., Davidyants G.N., Rastorguev OS, Shafran V.L. Engineering training and improvement of urban areas. M. Izd., "Architecture" - 2004. 236s.
2. Urban planning. Planning and development of urban and rural settlements. SNiP 2.07.01-89 * Moscow 2005 56c.
3. The rules and regulations for the design of integrated improvement in the territory of the city of Moscow. MGSN 1.02-02. Moscow 2002- 71s.
4. Rules for the creation, maintenance and protection of green spaces in Moscow. Moscow 2002 Ed. Department of environmental management.
5. Urban planning. Planning and development of urban and rural settlements. SNiP 2.07.01-89 * Moscow 2005 SP 11-102-97 Engineering and environmental surveys for construction.

6. Rules for the creation, maintenance and protection of green spaces in Moscow. The government of Moscow. Department of nature management and environmental protection. Moscow 2002. 140s
7. Rules and regulations for the design of integrated improvement in the territory of the city of Moscow. MGSN 1.02-02. The government of Moscow. 2002.71s.
8. Norms and rules of planning and development of the city of Moscow MGSN 1.01-99. Moscow 2000g-113s.
9. GOST 21.508-85. "General plans of enterprises, structures and housing and civil facilities. Working drawings".
10. GOST 17 2.1.03-84. Nature Conservation Atmosphere Terms and definitions of pollution control.
11. GOST 17.1 1 02-77. Protection of Nature. Hydrosphere. Classification of water bodies
12. GOST 17.1.1.01-77. Protection of Nature. Hydrosphere. Use and protection of waters. Basic terms and definitions.
13. GOST 17.1.3.13-86. Protection of Nature. Hydrosphere General requirements for the protection of surface water from pollution.
14. GOST 17.2 3.01-76. Protection of Nature. Atmosphere. Emission classification by composition
15. GOST 17.2.1.02-76 Nature protection. Atmosphere. Terms and definitions of emissions of motor vehicles, tractors, self-propelled agricultural and road-building machines.
16. GOST 17.2.1.04-77. Protection of Nature. Atmosphere Sources and meteorological factors of pollution, industrial emissions. Terms and Definitions. Collection of regulatory materials on environmental protection. Prince 4. Protection of water bodies Sanitary requirements for the design of domestic water supply facilities. M, 1994.
17. GOST 17.2.3.01-86. Nature Conservancy Atmosphere. The rules of air quality control of settlements.
18. GOST 17.2.4.02-81. Protection of Nature. Atmosphere. General requirements for methods for the determination of pollutants
19. GOST 17.4 2.03-86. Soil Nature Conservation. Soil passport
20. GOST 17.4.1 02-83. Protection of Nature. Soils. Chemical classification for pollution control

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
 - EL "Lan" <http://eJanbook.com/>
 - EL "Trinity Bridge"

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/>

- www.elibrary.ru, www.twirpx.ru

8. ASSESSMENT TOOLKIT AND GRADING SYSTEM* FOR EVALUATION OF GRADUATES' COMPETENCES LEVEL

The assessment materials and the grading system* to evaluate the graduate's level of competences (competences in part) formation as the results of the higher education programme completion are specified in the Appendix to this syllabus.

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