



# SUMMARY REPORT

on public accreditation of the cluster of educational programmes in

- «Forestry» (35.03.01, 35.04.01),
- «Agrochemistry and agro-soil science» (35.03.03, 35.04.03),
- «Agronomy» (35.03.04, 35.04.04),
- «Gardening» (35.03.05, 35.04.05),
- «Landscape architecture» (35.03.10, 35.04.09),

delivered by Russian State Agrarian University - Moscow  
Timiryazev Agricultural Academy



2021

While preparing this Summary Report we used information from the Self-Evaluation Report and the Report on the External Review of the cluster of educational programmes in «Forestry» (35.03.01, 35.04.01), «Agrochemistry and Agro-soil Science» (35.03.03, 35.04.03), «Agronomy» (35.03.04, 35.04.04), «Gardening» (35.03.05, 35.04.05), «Landscape Architecture» (35.03.10, 35.04.09), delivered by Russian State Agrarian University - Moscow Timiryazev Agricultural Academy.

The presentation document for the use by the National Accreditation Board.

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## GENERAL INFORMATION ON EDUCATIONAL INSTITUTION

|  |   |
|--|---|
| Full name of the educational institution | <i>Federal State Budgetary Educational Institution of Higher Education "Russian State Agrarian University-Moscow Timiryazev Agricultural Academy"</i>   |
| Founders                                 | <i>Ministry of Agriculture of the Russian Federation</i>  |
| Year of foundation                       | <i>1865 — Petrovskaya Academy of Agriculture and Forestry</i><br><i>1894 — Moscow Agricultural Institute</i><br><i>1917 — Petrovskaya Academy of Agriculture</i><br><i>1923 — Agricultural Academy named after K.A. Timiryazev</i><br><i>1994 — Moscow Agricultural Academy named after K.A. Timiryazev</i><br><i>2005 — Russian State Agrarian University – MTAA named after K.A. Timiryazev</i> |
| Address                                  | <i>Timiryazevskaya street, 49 Moscow 127550 Russian Federation</i>  |
| Rector                                   | <i>Prof. Vladimir I. Trukhachev</i><br><i>Academician - member of the Russian Academy of Sciences, Doctor of Science in Agriculture, Doctor of Science in Economics</i>   |
| License                                  | <i>Series No 90Л01 Registration No 0008076 from 10.10.2014г. permanent</i>  |
| State accreditation                      | <i>Certificate on State Registration Series No 90A01, Registration No 0003739 from 05.03.2021 to 05.03.2027.</i>  |
| Number of students                       | <i>12,676 students</i><br><i>of whom:</i><br><i>9,667 are full-time students</i><br><i>441 are part-time students</i><br><i>2,568 study in asbentia</i>   |

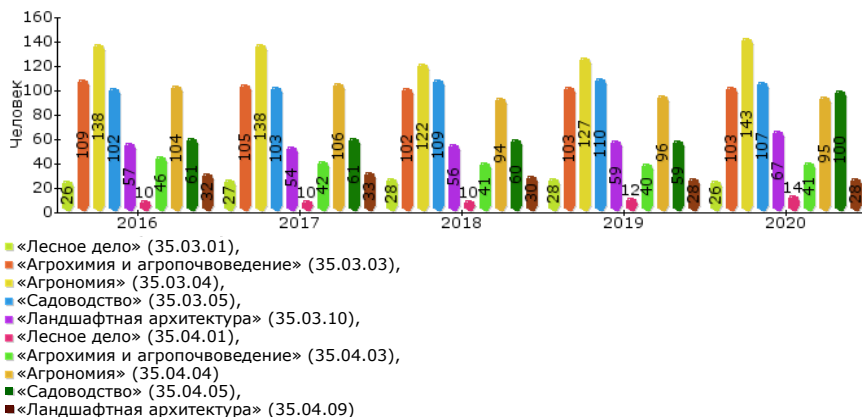
## INFORMATION ON THE STUDY PROGRAMMES UNDERGOING ACCREDITATION

|   |  |
|---|--|
| Educational programmes                                | «Forestry» (35.03.01, 35.04.01),<br>«Agrochemistry and Agro-soil Science» (35.03.03, 35.04.03),<br>«Agronomy» (35.03.04, 35.04.04),<br>«Gardening» (35.03.05, 35.04.05),<br>«Landscape Architecture» (35.03.10, 35.04.09)  |
| Level of training /<br>Standard period of<br>training | <i>Bachelor's Programme / 4 years</i><br><i>Master's Programme / 2 years</i>   |
| Structural subdivision<br>(Head)                      | <i>Institute of Agrobiotechnology (Doctor of Agricultural Sciences, Professor Sergey Leonidovich Belopukhov)</i><br><i>Institute of Horticulture and Landscape Architecture (Doctor of Agricultural Sciences, Professor Radzhabov Agamagomed Kurbanovich)</i><br><i>Institute of Land Reclamation, Water Management and Construction named after A.N. Kostyakov (Doctor of Engineering Sciences, Professor Sergey Alekseevich Bredikhin)</i> |
| Graduate departments (and their respective heads)     |  |
| Dates of Review                                       | <i>12-14 May 2021</i>  |
| People responsible for accreditation                  | <i>Abrashkina Ekaterina Dmitrevna, Associate Professor, Head of the Department of Licensing and Accreditation of Department of Academic Affairs</i><br><i>Khokhlova Elena Vasilevna, Candidate of Sciences, Associate Professor, Vice-Rector for Education Quality</i>   |

## SAMPLING RESULTS OF THE PROJECT "THE NATIONAL AGGREGATED RANKING"

| Higher Education Institution   |                   |                   |                |   |          |    |          |    |          |    |          |    |  |
|--|-------------------|-------------------|----------------|---|----------|----|----------|----|----------|----|----------|----|--|
| <b>35.00.00 Сельское, лесное и рыбное хозяйство</b><br>35.03.01 «Forestry»,<br>35.03.03 «Agrochemistry and Agro-soil Science»,<br>35.03.04 «Agronomy»,<br>35.03.05 «Gardening»,<br>35.03.10 «Landscape Architecture»,<br>35.04.01 «Forestry»,<br>35.04.03 «Agrochemistry and Agro-soil Science»,<br>35.04.04 «Agronomy»,<br>35.04.05 «Gardening»,<br>35.04.09 «Landscape Architecture» | Premier league    |                   |                |   |          |    |          |    |          |    |          |    |  |
| National Aggregated Ranking  | 1 league          |                   |                |   |          |    |          |    |          |    |          |    |  |
| The overall number of study areas delivered by a HEI   | 17                |                   |                |   |          |    |          |    |          |    |          |    |  |
| League distribution  |                   |                   |                |   |          |    |          |    |          |    |          |    |  |
| <table border="1"> <thead> <tr> <th>League</th><th>No of study areas</th></tr> </thead> <tbody> <tr> <td>Premier league</td><td>4</td></tr> <tr> <td>1 league</td><td>7</td></tr> <tr> <td>2 league</td><td>6</td></tr> <tr> <td>3 league</td><td>0</td></tr> <tr> <td>4 league</td><td>0</td></tr> </tbody> </table>  | League            | No of study areas | Premier league | 4 | 1 league | 7  | 2 league | 6  | 3 league | 0  | 4 league | 0  | <p>             4 24%<br/>             7 41%<br/>             6 35%           </p> <ul style="list-style-type: none"> <li>■ Премьер-лига</li> <li>■ 1 лига</li> <li>■ 2 лига</li> <li>■ 3 лига</li> <li>■ 4 лига</li> </ul>  |
| League   | No of study areas |                   |                |   |          |    |          |    |          |    |          |    |  |
| Premier league   | 4                 |                   |                |   |          |    |          |    |          |    |          |    |  |
| 1 league   | 7                 |                   |                |   |          |    |          |    |          |    |          |    |  |
| 2 league   | 6                 |                   |                |   |          |    |          |    |          |    |          |    |  |
| 3 league   | 0                 |                   |                |   |          |    |          |    |          |    |          |    |  |
| 4 league   | 0                 |                   |                |   |          |    |          |    |          |    |          |    |  |
| Russian Federation   |                   |                   |                |   |          |    |          |    |          |    |          |    |  |
| The No of HEIs in the Russian Federation delivering programmes included in these study areas   | 122               |                   |                |   |          |    |          |    |          |    |          |    |  |
| HEIs classified into leagues based on integrated study areas   |                   |                   |                |   |          |    |          |    |          |    |          |    |  |
| <table border="1"> <thead> <tr> <th>League</th><th>No of HEI</th></tr> </thead> <tbody> <tr> <td>Premier league</td><td>9</td></tr> <tr> <td>1 league</td><td>33</td></tr> <tr> <td>2 league</td><td>30</td></tr> <tr> <td>3 league</td><td>27</td></tr> <tr> <td>4 league</td><td>23</td></tr> </tbody> </table>  | League            | No of HEI         | Premier league | 9 | 1 league | 33 | 2 league | 30 | 3 league | 27 | 4 league | 23 | <p>             9 7%<br/>             33 27%<br/>             30 25%<br/>             27 22%<br/>             23 19%           </p> <ul style="list-style-type: none"> <li>■ Премьер-лига</li> <li>■ 1 лига</li> <li>■ 2 лига</li> <li>■ 3 лига</li> <li>■ 4 лига</li> </ul> |
| League   | No of HEI         |                   |                |   |          |    |          |    |          |    |          |    |  |
| Premier league   | 9                 |                   |                |   |          |    |          |    |          |    |          |    |  |
| 1 league   | 33                |                   |                |   |          |    |          |    |          |    |          |    |  |
| 2 league   | 30                |                   |                |   |          |    |          |    |          |    |          |    |  |
| 3 league   | 27                |                   |                |   |          |    |          |    |          |    |          |    |  |
| 4 league   | 23                |                   |                |   |          |    |          |    |          |    |          |    |  |

## REFERENCE DATA ON STUDENT ENROLLMENT FOR PROGRAMME



## ACHIEVEMENTS OF THE STUDY PROGRAMMES

### Quality of implementing the study programmes

The study and evaluation of entrance requirements, the outcomes of knowledge control in courses across all blocks of the curriculum, and intermediate and final state certification of graduates are all used to ensure the quality of students' training.

The average academic performance score based on the results of the intermediate certification of undergraduate students varies from 76.6 to 92.6 points (on a 100-point scale); master's students range from 70 to 83 points (on a 100-point scale); according to the results of the State Attestation, the average academic performance of undergraduate students varies from 4.4 to 5.0 points (according to 5-point scale), master's degree students – from 4.3 to 5 points (on a 5-point scale).

The quality of educational programmes is ensured by the high level of qualification of the teaching staff; active academic research; development and continuous improvement of educational and methodological support of academic courses, including e-learning and distance learning courses; use of interactive teaching and learning methods in the learning process and research laboratories, educational and experimental facilities of the university and its greenhouses.

Students participate in practice-oriented classes, as well as on-the-job placement and pre-graduate training, thanks to strategic partners.

### Provision of up-to-date education

The relevance of the content of education is ensured by the annual updating and adjustment of educational programmes, curricula and working programmes of academic courses in accordance to comply with

the changes in federal and regional legislation, their coordination with stakeholders, and due consideration of the international experience.

Professional competencies are regularly updated in educational programmes, university competencies are formulated, and the quality of training is analyzed based on the results of annual surveys.

### Teaching staff

With regard to the educational programmes undergoing accreditation, over 92% of teachers are employed full-time. The number of researchers holding academic degrees and titles ranges from 80% to 100%. The share of employees with the background education compliant with the courses taught is 100%.

Leading specialists of the business sector are involved in the programme delivery.

The members of the teaching staff involved in the delivery of the programme 35.00.00 "Agriculture, forestry and fisheries" win the grants awarded by the President of the Russian Federation and the Government of the Russian Federation, the RNF, the RFBR, the Fund for Infrastructure and Educational Programmes.

### Independent assessment of student learning outcomes

The quality of procedures for independent evaluation of learning outcomes is confirmed by prizes won in the national and international contests: All-Russian competition for the best research work among students, postgraduates and young researchers organized by the "U.M.N.I.K." programme of the Foundation for the Promotion of Innovation, etc.

Students have been participating in the Federal Internet Exam since 2005.

In 2020, 72 students of the programmes 35.03.05 "Gardening" and 72 students of the programme 35.03.10 "Landscape Architecture" were tested in Botany, Physiology and Biochemistry of Plants.

Students' learning outcomes were tested by the independent experts-representatives from the industry. They attended and delivered training sessions, and assessed the quality of students' practical training, evaluated the quality of students' and teachers' research, as well as survey and feedback results.

### Educational resources

The University has adequate and sufficient material and technical resources that include all types of laboratory, practical, course and intercourse training provided for by the Federal State Educational Standard and the curriculum, including facilities for self-study and research work organized in compliance with the current sanitary and fire safety rules and regulations.



The main educational programmes have in place all the educational and methodological documentation for the course delivery within the programme.

The content of every course is available from the University Intranet. Students have open access to databases and library resources necessary for the mastery of the programme.

### Research activity

There are 14 research schools to carry out research work. Over the past 5 years (2016-2020) the members of the teaching and research staff of the University have developed 447 items of intellectual property including 112 inventions, 79 utility models, 206 certificates for databases, 20 patents for breeding achievements, 30 certificates for computer programmes. In 2017 the university trademark was registered.

In 2020 the Hirsch index was 151, Web of Science – 33, Scopus – 35.

For the reported period the staff members of the university published 447 monographs, 20,775 publications were indexed in the Russian Science Citation Index, 5,279 publications were published in the journals approved by the Higher Attestation Commission, 496 publications were indexed in Web of Science and 770 publications were indexed in Scopus.

### Academic mobility of students

International student mobility programmes include the following three format options:

- inclusive study programmes for 1-2 semesters according to the agreed curricula with the recognition of student learning outcomes at partner universities in the framework of Erasmus+, Silk Road programmes and bilateral agreements;
- practical training programmes with the duration ranging from 2-20 weeks hosted by LOGO eV (Germany), GeTec-Solutins UG (Germany), Grow Abroad (World Alliance), Valfredda Societa Botanical Garden (Italy), and other business enterprises abroad;
- short-term internships, theme specific summer/winter schools at the University of Bergamo (Italy), International Institute of Garden Cities (Great Britain), etc.

### Employability of graduates

From 70% to 85% of the graduates from the programme "Agriculture, forestry and fisheries" find employment within the sector.

The University is among the 100 best universities in Russia according to the Rating Agency REX (REX Analytics). The university was ranked 56<sup>th</sup> in 2021 as compared to 2020 ranking (62<sup>nd</sup> position). According to Forbes, the university was ranked 73<sup>rd</sup> in the Ranking of the best universities in Russia in 2020.

### International projects

The members of the teaching staff involved in the delivery of the study programmes undergoing accreditation are involved in international educational projects:

- 4 EU projects: ERASMUS + CBHE "Enhancing the potential of higher education", Grand Embassy of the United Kingdom;

- academic mobility programmes: teacher internships in partner companies abroad, lectures and practical classes; advanced training courses (seminars, meetings, round tables, advanced training courses organized by partner institutions in CIS member countries, FAO, InterAgroClub, etc.);

- participation of teachers in research and educational projects:

- 8 projects related to the development of grants and applications of enterprises of the real sector of the economy;

- summer schools: VII Moscow International Summer Environmental School "Global Climate Change and environmental monitoring of natural, agro- and urban ecosystems", VIII Moscow International Summer Environmental School "Agroecological monitoring and optimization of land Use technologies in the context of global changes", IX Moscow International Summer Environmental School "Smart Technologies of Environmental Monitoring for the sustainable development of agro- and urban ecosystems".

## EXTERNAL REVIEW PANEL



**Dimitier Ferdinandov Grekov** (Plovdiv, Bulgaria)

Review Chair, foreign expert

*Doctor of Agricultural Sciences, Professor, Director of the Centre for Further Education of the Plovdiv Agrarian University, Dean of the Faculty of Agronomy (1999-2007), Rector (2007-2013), Minister of Agriculture and Food of Bulgaria (2013-2014), member of the Accreditation Council of the National Agency for Assessment and Accreditation of Bulgaria*

a nominee of the National Evaluation and Accreditation Agency, Bulgaria



**Aleksandr Pavlovich Pichugin** (Voronezh, Russia)

Deputy Review Chair, Russian Expert

*Candidate of Agricultural Sciences, Associate Professor, Dean of the Faculty of Agronomy, Agrochemistry and Ecology of the Voronezh State Agrarian University named after Peter I*

A nominee of the Guild of Experts in Higher Education



**Mircea Mihalache** (Cluj-Napoca, Romania)

Panel member, Foreign Expert

*Doctor of Agricultural Sciences, Vice-Rector for Educational Activities of the University of Agricultural Sciences and Veterinary Medicine, member of the Romanian National Society of Soil Scientists (RNSSS), member of the International Union of Soil Scientists (IUSS), member of the European Soil Conservation Society (ESSC), member of the International Scientific Center for Fertilizers (CIEC), member of the International Research Organization for Soil Cultivation (ISTRO)*

A nominee of the Romanian Agency for Quality Assurance in Higher Education - ARACIS



**Ilgiz Galliamovich Asylbaev** (Ufa, Russia)

Panel member, Russian expert

*Doctor of Biological Sciences, Professor, Dean of the Faculty of Agrotechnology and Forestry, Bashkir State Agrarian University*

A nominee of the Guild of Experts in Higher Education

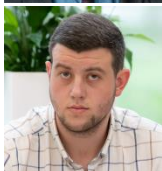


**Aleksei Nikolaevich Naliukhin** (Moscow, Russia)

Panel member, representative of professional community

*Doctor of Agricultural Sciences, Associate Professor, Acting Deputy Director for Science of the Pryanishnikov Institute of Agrochemistry, member of the Dokuchaevsky Society of Soil Scientists, member of the Expert Council of the Russian Academy of Sciences*

A nominee of the Pryanishnikov Institute of Agrochemistry



**Dmitrii Valerevich Vedmedenko** (г. Москва, Россия)

Panel member, representative of students

*1<sup>st</sup> year master student the Peoples' Friendship University of Russia*

A nominee of the RUDN University

## INFORMATION ON THE LEADING TEACHERS OF THE EDUCATIONAL PROGRAMMES

### **Mazirov Mikhail Arnoldovich**

*Doctor of Biological Sciences, Professor of the Department of Agriculture and Experimental Methods, Chairman of the Dissertation Council on Ecology and Microbiology, Deputy Chairman of the Dissertation Council on Agriculture, member of the Dissertation Council in the VLSU on Ecology, member of the Scientific and Technical Council of the RGAU-MSHA, member of the Educational and Methodological Council of the Faculty, member of the Presidium of the Dokuchaev Society of Soil Scientists, member of the RGS, member of the editorial board of specialized journals*

### **Belopukhov Sergei Leonidovich**

*Doctor of Agricultural Sciences, Professor, Director of the Institute of Agrobiotechnologies*

### **Vasenev Ivan Ivanovich**

*Doctor of Biological Sciences, Professor, Head of the Department of Ecology*

### **Dubenok Nikolai Nikolaevich**

*Doctor of Agricultural Sciences, Academician, Head of the Department of Agricultural Land Reclamation, Forestry and Land Management, Academician of the Russian Academy of Sciences*

### **Dzhalilov Fevzi Seid-Umerovich**

*Doctor of Biological Sciences, Professor, Head of the Department of Plant Protection*

### **Kalashnikov Dmitrii Vladimirovich**

*Candidate of Agricultural Sciences, Associate Professor, Acting Head of the Department of Landscape Architecture*

### **Monakhos Sokrat Grigorevich**

*Doctor of Agricultural Sciences, Associate Professor, Head of the Department of Botany, Breeding and Seed Production of Garden Plants*

### **Selitskaia Olga Valentinovna**

*Candidate of Biological Sciences, Associate Professor, Head of the Department of Microbiology and Immunology*

### **Terekhova Vera Ivanovna**

*Candidate of Agricultural Sciences, Associate Professor, Acting Head of the Vegetable Growing Department*

### **Shitikova Aleksandra Vasilevna**

*Candidate of Agricultural Sciences, Associate Professor, Head of the Department of Plant Growing and Meadow Ecosystems*

### **Leunov Vladimir Ivanovich**

*Doctor of Agricultural Sciences, Professor, Professor of Vegetable Growing Department, Expert of the Russian Academy of Sciences*

### **Lazarev Nikolai Nikolaevich**

*Doctor of Agricultural Sciences, Professor of the Department of Crop Production and Meadow Ecosystems, member of the Expert Council of the Higher Attestation Commission, member of the Dissertation Council of the K.A. Timiryazev Russian Agricultural Academy, member of the editorial board of the journal "Feed Production", "Izvestia of the TSHA"*

## **COMPLIANCE OF THE EXTERNAL REVIEW OUTCOMES WITH THE STANDARDS**

### **STANDARD 1. Policy (goals, development strategy) and quality assurance procedures of study programmes**

Compliance with the standard: **full compliance**

#### **Good practice:**

The University develops and regularly updates documents regarding the content, organization and quality of the educational process.

University administration, members of the teaching and research staff, representatives of the Association of employers, scientific associations, line ministries and institutions take part in the development and implementation of the quality assurance policy. The University has a Centre for the Quality of Education.

There is an e-learning environment.

The university regularly collects feedback from its teachers, researchers, students and employers regarding the quality of educational services provided.

#### **Areas for improvement:**

It is recommended that the University should describe the mechanism for involving employers and representatives of the professional community in the development, updating and coordination of the Quality Assurance Policy.

### **STANDARD 2. Educational programmes**

Compliance with the standard: **full compliance**

#### **Good practice:**

The goals and expected learning outcomes are published and publicly available on the official website of the University.

Educational programmes are regularly updated with due regard of the development of science and technology, as well as stakeholders' opinions (teachers, students, employers).

The expected learning outcomes are consistent with the professional standards for Integrated group of subject areas 35.00.00 "Agriculture, forestry, fisheries" and are documented in the working programmes.

Students have access to working programmes, methodological and evaluation materials through the electronic information educational system of the university.

### Areas for improvement:

It is recommended that the University should design and document a mechanism for employers' participation in the development and approval of regulations on the educational programmes and practical training.

It is recommended that the University should hold foresight sessions with the leading agricultural employers in order to discuss professional competencies and indicators of their achievement and compliance with the requirements of the modern labor market and professional standards.

It is recommended that the University should include in its study programmes the course "Foreign language for professional communication".

## STANDARD 3. Student-centred learning, teaching and assessment

Compliance with the standard: **full compliance**

### Good practice:

The university has developed and effectively operates an automated student management system "Cassiopeia", which provides information about educational programmes, curricula, academic calendars, assessment criteria and procedures.

It is possible to pursue an individual learning path taking into account students' interests. The Institute of Tutorship and Student Support has been established at the university.

Online courses have been developed. They are available to all students regardless of their area of training.

Students' learning outcomes are assessed through independent procedures, such as academic contests, All-Russian competitions of research works, intellectual games, etc.

Independent assessment results\*

| Integrated group of training areas | Entrance level (results of State exams) | Interim assessment (academic contests, Federal Internet-exams in the sphere of professional education, etc.) | Certifying examinations (Federal Internet-exams for bachelor students, etc.) |
|------------------------------------|---|--|--|
| <b>35.00.00</b>                    | A                                       | A  | E  |

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\*Data from <https://best-edu.ru/>

### **Areas for improvement:**

It is recommended that the University should include a practice-oriented state examination in the GIA, including a theoretical and practical component.

Graduates from the programmes and senior students are recommended to take a professional (certification) exam as an independent assessment of qualifications.

### **STANDARD 4. Student admission, support of academic achievements and graduation**

Compliance with the standard: **full compliance**

#### **Good practice:**

Pre-university training programmes are delivered in 165 specialized educational institutions, including 74 located in the rural areas. There are specialized classes and specialized schools. From 10 to 20% of applicants are graduates from specialized schools.

Student retention procedures include monitoring of the current and interim certification, analysis of student attendance, a schedule of the progress of control activities, interviews with the leading teachers, curators, heads of departments, directors of institutes.

Job fairs, webinars and workshops are regularly held in collaboration with the representatives of employers.

Students benefit from using their personal accounts with the possibility of forming an electronic portfolio.

### **Areas for improvement:**

It is recommended that the University should strengthen the academic mobility of students in the framework of cooperation with foreign agricultural universities and various international companies (for example, KWS, DAAD, Bayer, etc.).

It is recommended that the University should issue a European diploma supplement as a mandatory document together with the diploma.

### **STANDARD 5. Teaching staff**

Compliance with the standard: **full compliance**

#### **Good practice:**

The university has 14 research schools.

Representatives of companies whose activities are related to the educational programmes undergoing accreditation are involved the programme delivery.

The university a unique long-term (109 years) field experience, initiated in 1912.

The members of the teaching staff are actively involved in research work, which is confirmed by the grants awarded by the President and the Government of the Russian Federation, grants from the Russian Foundation for Basic Research, Food and Agricultural Organization, Russian Science Foundation.

The members of the teaching staff participate as experts in the work of intergovernmental commissions (China, Sudan, Congo, Vietnam, etc.).

The university covers the cost of publications in journals indexed in Scopus and WoS.

|                                    |                      |
|------------------------------------|----------------------|
| Integrated Group of Training Areas | h-index (quartile)   |
| <b>35.00.00</b>                    | 105 (first quartile) |

### **Areas for improvement:**

It is recommended that the University should do contract-based research with the leading agricultural producers and employers of the Moscow region and other regions of the Russian Federation.

In order to ensure internationalization of educational programmes, it is recommended that the University should attract teachers from other countries, as well as increase the number of employers both at the federal and international levels, including non-profit organizations.

In order to increase the proportion of teachers who speak foreign languages, it is recommended that the University should organize advanced training (retraining) of foreign language for teachers.

It is recommended that the University should develop a system of material incentives for the members of the teaching staff delivering professional courses in a foreign language.

## **STANDARD 6. Learning resources**

Compliance with the standard: **full compliance**

### **Good practice:**

The University has sufficient material and technical resources and venues for practical trainings: a field experimental station, a Precision Agriculture Center, a plant protection station, a fruit Growing Laboratory and a Michurinsky Garden, a Laboratory of genetics, breeding and biotechnology



of vegetable crops, and others. A unique Experimental forest has been preserved and is functioning – the largest open-air research laboratory in Europe and the oldest educational institution in the field of forestry, located almost in the centre of a large metropolis. A world-class research centre "Agrotechnologies of the Future" has been established with the inclusion of leading research institutes in the field of agriculture, biotechnology and genetics in the consortium.

The Library is a member and an active user of the MARS ARBICON corporate bibliographic database. The University provides access to the electronic library systems "Lan", "Yurayt", "Rukont", Scopus abstract database, Web of Science, electronic library is provided Elibrary.ru

### **Areas for improvement:**

It is recommended that the University should complement the programmes with a list of e-resources and professional databases.

## **STANDARD 7. Collection, analysis and use of information for managing the study programmes and public information**

Compliance with the standard: **full compliance**

### **Good practice:**

The electronic educational environment facilitates synchronous and asynchronous interaction of all the participants of the educational process using the LMS "Moodle" distance learning portal, as well as electronic management of the educational institution.

Students and teachers are regularly interviewed on the conditions and organization of the educational process via e-learning environment.

The University regularly holds Career Days in order to bring together graduates and employers and get feedback. There is a bookmark on the university's website where employers leave their vacancies.

The University has in place a roadmap for digitalization and development of online courses.

### **Areas for improvement:**

In order to expand the geography of places of practical training and scientific research in various soil and climatic conditions, it is recommended that the University should make agreements on mutual strategic cooperation and practical training of students with large agricultural companies, located in various regions of the Russian Federation.

It is recommended that the University should publish on its website the possibilities of admission within the framework of "Integrated development of rural areas" by subsidizing farms in more detail.

It is recommended that the University should provide more detailed information about the implemented educational programmes of the cluster "Agronomy" by training levels (bachelor's degree, master's degree) on the English website.

## **STANDARD 8. On-going monitoring and periodic review of programmes**

Compliance with the standard: **full compliance**

### **Good practice:**

The effectiveness of educational programmes is regularly monitored. The results of students' progress and exams, the improvement of the quality of students' training and employment are discussed and analysed at the meetings of the departments and Academic Councils of faculties/institutes.

According to the National Aggregated Rating of 2021, the university is in the first league.

### **Areas for improvement:**

It is recommended that the University should analyze analogous educational programmes delivered at the leading agricultural universities in Russia and abroad in order to introduce good practices.

Analysis and discussion of the effectiveness of corrective actions based on the results of external examination procedures is recommended to be included in the work plans of departments and the Academic Council and regularly analyzed.

In order to increase the status of the university and increase the prestige of agricultural education, it is recommended that the University should take part in world rankings, for example, GreenMetric, ARES, International recognition, etc.

## **STANDARD 9. Quality assurance of education (online/distance learning)**

Соответствие стандарту: **full compliance**

### **Good practice:**

A roadmap for digitalization and development of online courses has been developed. There are virtual rooms: Microsoft Teams, Mirapolis Virtual Room; the Webinar web conferencing platform.

There is a training module in the educational and methodological portal LMS "Moodle" for first-year students.

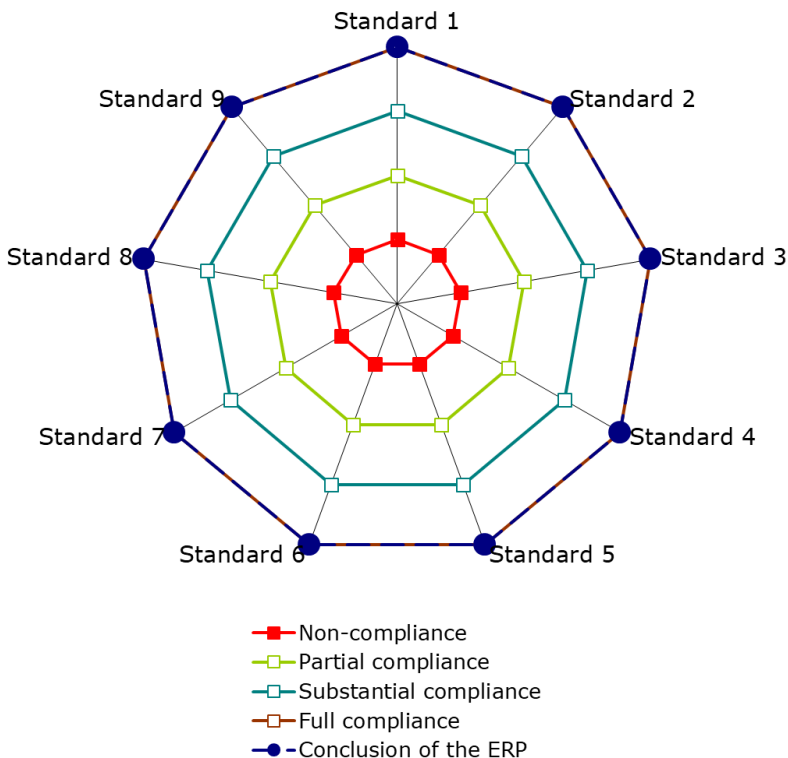
The university has developed and published online courses "Modern digital educational environment", "Digital technologies in agriculture", "Agroecology" on the STEPIC online platform, which are used in the educational process at Timityazev and other educational institutions .

### **Areas for improvement:**

It is recommended that the University should conduct advanced training for researchers and members of the teaching staff in order to improve computer literacy and effective work in the e-learning environment of the university.

It is recommended that the University should increase the number of elective computer courses necessary for the professional activity.

## DISTRIBUTION DIGRAM OF THE EXTERNAL REVIEW OUTCOMES



- Standard 1. Policy (goals, development strategy) and quality assurance procedures of study programmes
- Standard 2. Study programmes
- Standard 3. Student-centred learning, teaching and assessment
- Standard 4. Student admission, support of academic achievements and graduation
- Standard 5. Teaching staff
- Standard 6. Learning resources
- Standard 7. Collection, analysis and use of information for managing the study programmes and public information
- Standard 8. On-going monitoring and periodic review of programmes
- Standard 9. Quality assurance of education (online/distance learning)

## CONCLUSION OF THE EXTERNAL REVIEW PANEL

Based on the self-evaluation report analysis, documents and data submitted the External Review Panel has come to the conclusion that the cluster of educational programmes in «Forestry» (35.03.01, 35.04.01), «Agrochemistry and Agro-soil Science» (35.03.03, 35.04.03), «Agronomy» (35.03.04, 35.04.04), «Gardening» (35.03.05, 35.04.05), «Landscape Architecture» (35.03.10, 35.04.09) **fully** complies with the standards and criteria of public accreditation of the National Centre for Public Accreditation.

The External Review Panel recommends that the National Accreditation Board accredit the cluster of educational programmes in «Forestry» (35.03.01, 35.04.01), «Agrochemistry and Agro-soil Science» (35.03.03, 35.04.03), «Agronomy» (35.03.04, 35.04.04), «Gardening» (35.03.05, 35.04.05), «Landscape Architecture» (35.03.10, 35.04.09), delivered by Russian State Agrarian University - Moscow Timiryazev Agricultural Academy for the period of **six** years.

## SCHEDULE OF THE SITE VISIT OF THE EXTERNAL REVIEW PANEL

| Time                     | Activity  | Participants  | Venue   |
|--------------------------|---|---|---|
| <b>12 May, Wednesday</b> |   |   |   |
| 8.45                     | Arrival at the University (Academic Building No2)   |   | Moscow, Listvennichnaya alley, 4, Academic building No 2  |
| 09.00 – 10.45            | Meeting of the ERP with the University administration and people responsible for accreditation Rector, ViceRectors, people responsible for accreditation, ERP | Meeting of the ERP with the University administration and people responsible for accreditation Rector, ViceRectors, people responsible for accreditation, ERP | Moscow, Listvennichnaya alley, 4, Academic building No 2, room 101  |
| 11.00 – 12.45            | Guided tour of the University   | ERP, Vice Rector  | Academic buildings No 2, 26, 16, 17, 29, Equestrian Sports School, Field Experimental Station, V.A. Mikhelson Observatory |
| 13.00 – 14.00            | Lunch   |   | Academic building No 27, Canteen  |
| 14.00 – 14.30            | Internal meeting of the Panel   | ERP   | Academic building 17, room 217  |
| 14.30 – 15.30            | Meeting with directors of institutes, deans   | Directors of Institutes, Deputy Directors, ERP  | Academic building 17, Fosagro room  |
| 15.30 – 16.00            | Work with documents   | ERP   | Academic building 17, room 217  |
| 16.00 – 17.00            | <b>Meeting with heads of the departments</b>  | Heads of Departments, External Review Panel   | Academic building 17, Fosagro room  |
| 17.00 – 17.30            | Internal meeting of the Panel   | ERP   | Academic building 17, room 217  |
| 17.30 – 18.30            | <b>Meeting with graduates</b>   | Graduates, ERP  | Academic building 17, Fosagro room  |
| 18.30 – 19.00            | Internal meeting of the Panel   | ERP   | Academic building 17, room 217  |

| Time                    | Activity   | Participants  | Venue  |
|-------------------------|--|---|--|
| <b>13 May, Thursday</b> |  |   |  |
| 9.15                    | Arrival at the University (academic building No 17)  |   | Academic building 17   |
| 09.30 – 10.00           | Internal meeting of the Panel  | ERP   | Academic building 17, room 217   |
| 10.00 – 11.00           | <b>Meeting with teachers</b>   | Teachers, ERP   | Academic building 17, Fosagro room   |
| 11.00 – 11.30           | Internal meeting of the Panel  | ERP   | Academic building 17, room 217   |
| 11.30 – 12.30           | <b>Meeting with students</b>   | Students, ERP   | Academic building 17, Fosagro room   |
| 12.30 – 13.00           | Internal meeting of the Panel  | ERP   | Academic building 17, room 217   |
| 13.00 – 14.00           | Lunch  |   | Academic building No 27, Canteen   |
| 14.00 – 15.00           | <b>Meeting with postgraduates, doctoral students</b>   | Postgraduates, doctoral students, ERP                                       | Academic building 17, Fosagro room   |
| 15.00 – 17.00           | Work with documents/<br>Attending classes  | ERP   | Academic building 17, room 217   |
| 17.00 – 18.00           | <b>Meeting with the representatives of professional community</b>  | Representatives of professional community, ERP                              | Academic building 17, Fosagro room   |
| 18.00 – 18.30           | Work with documents.   | ERP   | Academic building 17, room 217   |
| <b>14 May, Friday</b>   |  |   |  |
| 9.45                    | Arrival at the University (academic building No 17)  |   | Pryanishnikova str., 6, Academic building No. 17                                   |
| 10.00 – 13.00           | Internal meeting of the Panel: discussion of preliminary results of the site visit, preparation of the oral report of the panel .Internal meeting of the Panel | ERP   | Academic building 17, room 217   |
| 13.00 – 14.00           | Lunch  |   | ERP  |
| 14.00 – 15.30           | Work with documents.   | ERP   | Academic building 17, room 217   |
| 16.00 – 17.30           | Closing meeting of the External Review Panel with the representatives of the University  | ERP, University administration, Heads of the Graduate Departments, teachers | 49 Timiryazevskaya Street, Academic Building No. 10, Academic Council Meeting Room |
| 18.00                   | Departure  |   |  |