

THE QUESTIONNAIRE
OF THE APPLICANT OF SCIENTIFIC DEGREE OF THE CANDIDATE OF SCIENCES,
OF SCIENTIFIC DEGREE OF THE DOCTOR OF SCIENCES
(taking into account the letter of “Mineduscience of Russia” from the 02.11.2018 y. № MN-969 / GT
“About the independent awarding of scientific degrees”,
submitted in the electronic and printed format)

1. The details about the applicant

1.1.	Last name / last name of foreign citizen (according to the data of passport / visa in the Russian-language transcription)	<i>Vetrov</i>
1.2.	First name / first name of foreign citizen (according to the data of passport / visa in the Russian-language transcription)	<i>Anatoly</i>
1.3.	Patronymic / patronymic of foreign citizen (in the presence) (according to the data of passport / visa in the Russian-language transcription)	<i>Nikolaevich</i>
1.4.	Gender	<i>male</i>
1.5.	The date of birth	<i>the 26th of July 1980 y.</i>
1.6.	The citizenship	<i>the citizen of USSR, RSFSR and RF</i>
1.7.	The place of work of the applicant	<i>the name of organization – “The Saint-Petersburg state electrotechnical university "LETI"” (“SPbSETU "LETI"”), the departmental accessory – “The ministry of education and science of RF” (“Mineduscience of Russia”), the type of organization – “The Federal state autonomous educational establishment of higher education” (“FSAEEHE”), the name of structural subdivision – the chair “Automatics and control processes” (“ACP”) of the faculty “Computer technologies and informatics” (“CTI”) of “SPbSETU "LETI"”, the post – the teacher of the discipline “Intellectual technologies and representation of knowledge” (independently conducted the practical lessons in two groups of day department from the 01st of September 2003 y. to the 31st of August 2006 y.), the teacher of the discipline “Informatics” (independently developed the method. provision, gave lectures in six groups of day department and two groups of evening department and conducted the laboratory practical works in three groups of day department and two groups of evening department from the 01st of September 2004 y. to the 31st of August 2010 y.), the country – RF, the address of organization – RF, 197376, Saint-Petersburg city, st. Prof. Popov, h. 5.</i>
1.8.	The passport data	<i>the series – 4004, the number – 458503, by whom and when issued – the 22nd department of militia of Krasnogvardeisky district of Saint-Petersburg city on the 14th of August 2003 y.</i>
1.9.	The visa	<i>No</i>
1.10.	The address of registration for the citizens of RF	<i>RF, Saint-Petersburg city, pr. Energetikov, h. 36, fl. 82.</i>
1.11.	The address for correspondence (for all)	<i>RF, 195248, Saint-Petersburg city, pr. Energetikov, h. 36, fl. 82.</i>
1.12.	The electronic address	<i>WWW: www.vetrovan.spb.ru, Email: vetrovan@list.ru, vetrovan@nwgsm.ru</i>
1.13.	The number of contact phone	<i>+7(812)222-5291 (home), +7(812/921)950-2706 (cellular).</i>

2. The qualification data

2.1.	<p>The educational establishment of the place of training in the post-graduate study / doctoral study / attachment study, the period of training</p>	<p>2.1.1. <u>The country</u> – RF, <u>the name of organization</u> – “TIP № 1 of Krasnogvardeisky district of SPb. city”, <u>the departmental accessory</u> – “The committee on education of Saint-Petersburg city” (“The ministry of national education of RSFSR”), <u>the type of organization</u> – “The state budgetary general-educational establishment” (“SBGE”), <u>the name of structural subdivision</u> – “Cybernetics” (“Informatics”), <u>the address of organization</u> – RF, 195112, Saint-Petersburg city, st. Tallinskaya, h. 21, <u>the date of start and end of training / attachment</u> – from the 01st of September 1995 y. to the 12th of May 1997 y., <u>the qualification</u> “Programmer-laboratory assistant” on the specialty “Discrete mathematics and mathematical cybernetics”: the theory of information, programming, vector computer graphics and genetic algorithms [the certificate (diploma) with honors of the sample of RSFSR – the series “p.o.p.”, order “405”, circulation “5000”, the 19th of June 1989 y., the average (secondary) professional education, physical-mathematical sciences].</p> <p>2.1.2. <u>The country</u> – RF, <u>the name of organization</u> – “SPbSETU “LETI””, <u>the departmental accessory</u> – “Mineduscience of Russia”, <u>the type of organization</u> – “FSAEHE”, <u>the name of structural subdivision</u> – the chair “ACP” of the faculty “CTI” of “SPbSETU “LETI””, <u>the address of organization</u> – RF, 197376, Saint-Petersburg city, st. Prof. Popov, h. 5, <u>the date of start and end of training / attachment</u> – from the 01st of September 1997 y. to the 11th of February 2003 y., <u>the qualification</u> “Engineer” on the specialty “Control and informatics in the technical systems” [the diploma with honors of the sample of RF – the series DVS № 1230632, the higher professional education, technical sciences].</p>
------	--	--

2.1.3. The country – RF,
the name of organization –
 “SPbSETU "LETI””,
the departmental accessory –
 “Mineduscience of Russia”,
the type of organization – “FSAEEHE”,
the name of structural subdivision –
 the chair “Submarines” (“SM”)
 of the faculty “Military training” (“MT”)
 of “SPbSETU "LETI””,
the address of organization – RF, 197376,
 Saint-Petersburg city, st. Prof. Popov, h. 5,
the date of start and end
of training / attachment –
 from the 01st of September 1997 y. to the 11th of February 2003 y.,
the qualification “Engineer” (lieutenant of “NAVY of RF”)
 on the specialty «Operation and repair
 of ship fighting information
 control systems”
 (the automated control systems
 of submarines) (“MU-3”)
 [the diploma with honors of the sample of RF –
 confidentially,
 the higher professional education,
 military sciences].

2.1.4. The country – RF,
the name of organization –
 “The international banking institute”
 (“IBI”),
the departmental accessory –
 “Mineduscience of Russia”,
the type of organization –
 “The autonomous noncommercial organization
 of higher education” (“ANOHE”),
the name of structural subdivision –
 the chair “Banking” (“B”)
 of the faculty “Professional retraining
 and improvement of professional skill” (“PR and IPS”)
 of “IBI”,
the address of organization – RF, 191011,
 Saint-Petersburg city, Nevsky pr., h. 60,
the date of start and end
of training / attachment –
 from the 01st of September 2003 y. to the 24th of June 2004 y.,
the qualification “Expert-economist”
 on the specialty “Finance and credit”
 in the sphere “Banking”
 [the diploma with honors of the sample of RF –
 the series PP № 548008,
 the higher professional education,
 economic sciences].

2.1.5. The country – RF,
the name of organization –
 “SPbSETU "LETI””,
the departmental accessory –
 “Mineduscience of Russia”,
the type of organization – “FSAEEHE”,
the name of structural subdivision –
 the chair “ACP” of the faculty “CTI”
 of “SPbSETU "LETI””,
the address of organization – RF, 197376,
 Saint-Petersburg city, st. Prof. Popov, h. 5,
the date of start and end
of training / attachment –
 from the 01st of May 2003 y. to the 31st of May 2007 y.,
the qualification “Post graduate student”
 on the specialty 05.13.01 – “The system analysis,
 control and information processing”
 [the certificate about the passing
 of candidate examinations with honors
 of the sample of RF –
 from the 06th of December 2006 y. № 128,
 the additional higher
 professional education,
 technical sciences].

2.1.6. The country – RF,
the name of organization –
 “The Saint-Petersburg
 state university” (“SPbSU”),
the departmental accessory –
 “Mineduscience of Russia”,
the type of organization –
 “The Federal state
 budgetary educational establishment
 of higher education” (“FSBEEHE”),
the name of structural subdivision –
 the chair “Information systems” (“IS”)
 of the faculty “Applied mathematics –
 control processes” (“AM – CP”) of “SPbSU”,
the address of organization – RF, 199034,
 Saint-Petersburg city,
 Universitetskaya emb., h. 7-9,
the date of start and end
of training / attachment –
 from the 01st of July 2018 y. to the 31st of December 2018 y.,
the qualification “The applicant of scientific degree”
 on the specialty 05.13.01 – “The system analysis,
 control and information processing”
 [the agreement about the attachment
 for the preparation of dissertation
 on the competition of scientific degree
 of the candidate of sciences
 without the study of programs of training
 of scientific-pedagogical personnel
 in the postgraduate study
 of the sample of “SPbSU” –
 from the 25.06.2018 y. № 9.2018.1 / S,
 the additional higher
 professional education,
 technical sciences].

2.2.	The scientific degree of the candidate of sciences (in the presence), the year of award	No
2.3.	The scientific rank (in the presence), the number of certificate	<p>2.3.1. <i>The scientific rank</i> <i>"The author of the unique technology of cognitive modeling"</i> <i>(for the system analysis of the information-educational environments, the financial analysis of the (credit) organizations and the complex analysis of the difficult objects, processes and phenomena (nuclear polymers)) according to the items 1542, 1543, 1544, 1545, 1546, 1547 and 1551 of "CC of RF" ("AUT (CMT SFA)" – the author of technology of double, threefold and more appointment in different areas)</i> <i>[on the 07th of June 2004 y. there were published two sections</i> <i>"The tendencies of development of the information environment of remote education"</i> <i>and "The cognitive model for the adaptive systems of remote training"</i> <i>in the collective scientific monography "The factors of success in the educational activity of modern HEI"</i> <i>of "The international Higher education academy of sciences" ("IHEAS")].</i></p> <p>2.3.2. <i>The honorary scientific rank</i> <i>"The founder of the new (academic) scientific direction</i> <i>"Cognitive informatics (computer science), cognitive modeling technology for the system and finance analysis", which is directly added in to "The registry of the new scientific directions" of "The Russian academy of natural science" ("RANS") [according to the decision of "The Presidium of "RANS", the protocol № 699 from the 08th of June 2018 y.].</i></p>

3. The printing activity

3.1.	Researcher ID ("Web of science")	K-8655-2017
3.2.	Author ID ("Scopus")	-
3.3.	SPIN («РИНЦ»)	8395-4560
3.4.	The quantity of scientific works of the applicant, in total	265 (the 31 st of December 2018 y.)
3.5.	The quantity of publications on the theme of dissertation	42 (c.t.s.) and 79 (d.t.s.)
3.6.	The quantity of publications on the theme of dissertation in the editions, included in the international databases and the systems of citation ¹	-
3.7.	The quantity of publications on the theme of dissertation in the editions from "The list of reviewed scientific editions" ² (without duplicating of publications in the editions, included in to the international databases and the systems of citation)	<p>05 (c.t.s.) and 12 (d.t.s.) scientific articles in the scientific journals, recommended by "HAC of RF" for the publication of scientific results of the dissertations on the competition of scientific degree of the candidate and doctor of sciences</p> <p><u>[there is fulfilled the requirement on c.t.s. – 02 s.a.];</u> <u>[there is fulfilled the requirement on d.t.s. – 10 s.a.]</u></p>

¹ "Web of science", "Scopus", "PubMed", "MathSciNet", "zbMATH", "Chemical abstracts", "Springer", "GeoRef".

² The list of reviewed scientific editions is formed in accordance with the order of "Mineduscience of Russia" from the 12th of December 2016 y. № 1586.

4. The details about dissertation work

4.1.	The theme of dissertation	<i>“The environment of automated training with the properties of adaptation based on the cognitive models”</i>
4.2.	The dissertation on the competition of scientific degree of the candidate of sciences / the doctor of sciences	<i>on the competition of scientific degree of the candidate of technical sciences</i>
4.3.	The cipher of scientific specialty	<i>05.13.01 – “The system analysis, control and information processing”</i>
4.3.1.	The name of the branch of science	<i>technical sciences</i>
4.3.2.	The area of research / specialization (in the presence) in the context of scientific specialty	<i>UDC 681.513.66+004.81 the adaptive systems of automatic control with the determined entrance influences and the reference cognitive models of the subject of training and the means of training, the reconstructed models of the cognitive processes</i>
4.4.	The cipher of the second scientific specialty (in the presence)	-
4.4.1.	The name of the second branch of science	-
4.4.2.	The second area of research / specialization (in the presence) in the context of scientific specialty	-
4.5.	Key words	<i>The system and financial analysis and control, information technologies, information-educational environments, automated training systems (at distance), innovative architectures and algorithms in the basis of automation means, (unique) cognitive modeling technology, (cognitive) informatics, psychophysiology of perception, cognitive psychology and applied linguistics.</i>
4.6.	The compliance to the priority directions of the development of science, technologies and technics (see Appendix 1)	<i>item 2. “The industry of nano-systems” (c.t.s. and d.t.s.). item 3. “The information-telecommunication systems” (c.t.s. and d.t.s.).</i>
4.7.	The compliance to the critical technologies (see Appendix 1)	<i>item 8. “Nano-, bio-, information, cognitive technologies” (c.t.s. and d.t.s.). item 12. “The technologies of access to the broadband multimedia services” (c.t.s. and d.t.s.). item 18. “The technologies and software of distributed and high-performance computing systems” (c.t.s. and d.t.s.).</i>

4.8.	The compliance to the priorities of scientific-technological development (see Appendix 1)	<p>+a) transition to the advanced digital, intellectual production technologies, robotic systems, new materials and ways of constructing, the creation of the systems of processing of the large volumes of data, machine learning and artificial intelligence (c.t.s. and d.t.s.);</p> <p>+c) transition to the personalized medicine, high-technological health care and technologies of health-saving, including due to the rational application of medical drugs (first of all the antibacterial) (c.t.s. and d.t.s.);</p> <p>g) the ability of effective respond of the Russian society on the big challenges taking into account the interaction of human and nature, human and technologies, social institutes at the modern stage of global development, including the application of the methods of humanitarian and social sciences (c.t.s. and d.t.s.).</p>
4.9.	The area of research from the list of “Web of science” (see Appendix 2)	<p>“Natural and exact sciences” – <u>“Computer and information sciences”</u> – item 51. “Informatics – information systems” (c.t.s. and d.t.s.). <u>“Other natural and exact sciences”</u> – item 73. “Multidisciplinary sciences” (c.t.s. and d.t.s.). “Medical sciences and public health care” – <u>“Clinical medicine”</u> – item 111. “Otorhinolaryngology” (only otology) (c.t.s. and d.t.s.), item 112. “Ophthalmology” (c.t.s. and d.t.s.). “Technics and technologies” – <u>“Medical technologies”</u> – item 210. “Medical laboratory technologies” (c.t.s. and d.t.s.). <u>“Other technologies”</u> – item 220. “Tools and devices” (c.t.s. and d.t.s.). <u>“Electrical-technics, electronic technics, information technologies”</u> – item 238. “Automated control systems” (c.t.s. and d.t.s.).</p>

4.10.	The organization of the place of execution of dissertation (in the presence)	<p>4.10.1. <u>The country</u> – RF, <u>the name of organization</u> – “SPbSETU “LETI””, <u>the departmental accessory</u> – “Mineduscience of Russia”, <u>the type of organization</u> – “FSAEEHE”, <u>the name of structural subdivision</u> – the chair “ACP” of the faculty “CTI” of “SPbSETU “LETI””, <u>the address of organization</u> – RF, 197376, Saint-Petersburg city, st. Prof. Popov, h. 5, <u>the date of start and end</u> <u>at training / attachment</u> – from the 01st of May 2003 y. to the 31st of August 2005 y. [<u>full-time training in post-graduate study</u> according to the copy of the approved individual training plan of work of postgraduate student (Vetrov A.N.) from the 01st of May 2003 y., certified by the deputy of head of “The personnel department” of “SPbSETU “LETI”” Sarayev N.A. on the 03rd of July 2007 y., certified by the head of “The personnel department” of “SPbSETU “LETI”” Shubinsky V.N. on the 19th of February 2010 y. – 23 sh., 23 p. and the work as the teacher (lectures and practice) according to the copy of the approved individual plan of teacher (Vetrov A.N.) for 2004-2005 ac. y., certified by the head of “The personnel department” of “SPbSETU “LETI”” Shubinsky V.N. on the 12th of September 2008 y. – 9 sh., 9 p., the copy of the approved individual plan of teacher (Vetrov A.N.) for 2005-2006 ac. y., certified by the head of “The personnel department” of “SPbSETU “LETI”” Shubinsky V.N. on the 12th of May 2008 y. – 9 sh., 9 p. and other individual plans of teacher (Vetrov A.N.) for 2006-2007 ac. y., for 2007-2008 ac. y., for 2008-2009 ac. y. and for 2009-2010 ac. y.],</p> <p>4.10.2. <u>The country</u> – RF, <u>the name of organization</u> – “SPbSU”, <u>the departmental accessory</u> – “Mineduscience of Russia”, <u>the type of organization</u> – “FSBEEHE”, <u>the name of structural subdivision</u> – the chair “IS” of the faculty “AM – CP” of “SPbSU”, <u>the address of organization</u> – RF, 199034, Saint-Petersburg city, Universitetskaya emb., h. 7-9, <u>the date of start and end</u> <u>at training / attachment</u> – from the 01st of July 2018 y. to the 31st of December 2018 y. [<u>the attachment for the organization of defence</u> according to the approved agreement from the 25.06.2018 y. № 9.2018.1 / S about the attachment for the preparation of dissertation on the competition of scientific degree of the candidate of science without the study of programs of the preparation of scientific-pedagogical personnel in the post-graduate study, signed by the applicant, “AUT CMT SFA” Vetrov A.N. and the acting as the head of “The department of scientific researches” (“DSR”) of “SPbSU” Tarasov A.M. (with stamp seal of “SPbSU”) - 4 sh., 4 p.].</p>
-------	--	--

5. The details about scientific supervisor /scientific consultant

5.1.	Last name, first name and patronymic (completely) (the last in the presence)	<i>Kvitko Alexander Nikolaevich</i>
5.2.	The scientific degree	<i>doctor of physical-mathematical sciences</i>
5.3.	The scientific rank (in the presence)	<i>professor</i>
5.4.	The place of work and post	<i>the country – RF, the name of organization – “SPbSU”, the departmental accessory – “Mineduscience of Russia”, the type of organization – “FSBEEHE”, the name of structural subdivision – the chair “IS” of the faculty “AM – CP” of “SPbSU”, the post – the professor of the chair “IS” of the faculty “AM – CP” of “SPbSU”, the address of organization – RF, 199034, Saint-Petersburg city, Universitetskaya emb., h. 7-9.</i>

The applicant of scientific degree,
 “the author of the unique technology” of cognitive modeling
 for the system, financial and complex analysis at the micro-level”



Vetrov A.N.

**THE PRIORITY DIRECTIONS
OF DEVELOPMENT OF SCIENCE, TECHNOLOGIES AND TECHNICS
IN THE RUSSIAN FEDERATION**

*(The extract from The decree of The President of The Russian Federation from the 07th of July 2011 y. №899
“About the approval of the priority directions of development of science, technologies and technics
in The Russian Federation and the list of critical technologies of The Russian Federation”)*

1. The security and counteraction to terrorism.
- +2. *The industry of nano-systems (c.t.s. and d.t.s.).*
- +3. *The information-telecommunication systems (c.t.s. and d.t.s.).*
4. The sciences about life (03.00.00).
5. The perspective kinds of arms, military and special technics.
6. The rational environmental-management.
- 6.1. The robotic complexes (systems) of military, special and dual use.
7. The transport and space systems.
8. The energy-efficiency, energy-conservation, nuclear power engineering.

**THE LIST OF CRITICAL TECHNOLOGIES
OF THE RUSSIAN FEDERATION**

*(The extract from The decree of The President of The Russian Federation from the 07th of July 2011 y. №899
“About the approval of the priority directions of development of science, technologies and technics
in The Russian Federation and the list of critical technologies of The Russian Federation”)*

1. The basic and critical military and industrial technologies for the creation of perspective kinds of arms, military and special technics.
2. The basic technologies of power electrical-engineering.
3. The bio-catalytic, bio-synthetic and bio-sensory technologies.
4. The bio-medical and veterinary technologies.
5. The genomic, proteomic and postgenomic technologies.
6. The cellular technologies.
7. The computer modeling of nano-materials, nano-devices and nano-technologies.
- +8. *The nano-, bio-, information and cognitive technologies (c.t.s. and d.t.s.).*
9. The technologies of nuclear power engineering, nuclear fuel cycle, safe handling with radioactive waste and spent nuclear fuel.
10. The technologies of bio-engineering.
11. The technologies of diagnostics of nano-materials and nano-devices.
- +12. *The technologies of access to the broadband multimedia services (c.t.s. and d.t.s.).*
13. The technologies of information, control and navigation systems.
14. The technologies of nano-devices and micro-system technics.
15. The technologies of new and renewable sources of energy, including hydrogen power engineering.
16. The technologies of production and processing of constructional nano-materials.
17. The technologies of production and processing of functional nano-materials.
- +18. *The technologies and software of distributed and high-performance computing systems (c.t.s. and d.t.s.).*
19. The technologies of monitoring and predicting of the condition of environment, preventing and eliminating of its pollution.
20. The technologies of prospecting, exploration and development of the deposits of mineral resources and their extraction.
21. The technologies of preventions and elimination of the emergency situations of natural and technogenic character.
22. The technologies of reduce of the losses from the socially significant diseases.
23. The technologies of creation of the high-speed transport facilities and the intellectual control systems of new kinds of transport.
24. The technologies of creation of the rocket-space and transport technics of the new generation.
25. The technologies of creation of the electronic component base and the energy-efficient light devices.
26. The technologies of creation of the energy-conservation systems of transportation, distribution and use of the energy.
27. The technologies of energy-efficient production and conversion of the energy on the organic fuel.

**THE PRIORITIES AND PERSPECTIVES
OF THE SCIENTIFIC-TECHNOLOGICAL DEVELOPMENT
OF THE RUSSIAN FEDERATION**

*(The extraction from The decree of The President of The Russian Federation from the 01st of December 2016y. №642
“The strategy of the scientific-technological development of The Russian Federation”)*

- +a) transition to the advanced digital, intellectual production technologies, robotic systems, new materials and ways of constructing, the creation of the systems of processing of the large volumes of data, machine learning and artificial intelligence (c.t.s. and d.t.s.);*
- b) transition to the ecologically cleaner and resource-saving power engineering, the increase of efficiency of the extraction and deep recycling of hydrocarbon raw materials, the formation of new sources, ways of transportation and storage of the energy;*
- +c) transition to the personalized medicine, high-technological health care and technologies of health-saving, including due to the rational application of medical drugs (first of all the antibacterial) (c.t.s. and d.t.s.);*
- d) transition to the highly-productive and ecologically cleaner agro- and aqua-economy, the development and introduction of the systems of rational application of the chemical and biological protection of agricultural plants and animals, the storage and efficient recycling of agricultural production, the creation of safe and quality, including the functional food products;*
- e) counteraction to the techno-genic, bio-genic, socio-cultural threats, terrorism and ideological extremism, and also as cyber-threats and other sources of danger for the society, economics and country;*
- f) the connectivity of territory of The Russian Federation due to the creation of intellectual transport and telecommunication systems, and also the occupation and retention of leadership positions in the creation of international transport-logistic systems, the development and use of outer space and air space, The World ocean, Arctic and Antarctic;*
- +g) the ability of effective respond of the Russian society on the big challenges taking into account the interaction of human and nature, human and technologies, social institutes at the modern stage of global development, including the application of the methods of humanitarian and social sciences (c.t.s. and d.t.s.).*

**The list of areas of researches
("Web of science")**

№ s / s	The area of research	№ s / s	The area of research	№ s / s	The area of research
	Humanitarian sciences		Medical sciences and public health care		MMI and mass communications
	Science of art		Clinical medicine	186	Theory of information and library science
1	Architecture	93	Obstetrics and gynecology		Social and economic geography
2	Art	94	Allergology	187	Geography
3	Cinema, radio and television	95	Andrology	188	Researches of environment
4	Musicology	96	Anesthesiology	189	Logistics and organization of transportations
5	Theater science	97	Audiology and pathology of speech	190	International relations and regional science
6	Choreography	98	Diseases of peripheral vessels	191	Planning and development
	History and archeology	99	Gastroenterology and hepatology	192	Urbanistics
7	Archeology	100	Hematology		Sociological sciences
8	History	101	Geriatrics and gerontology	193	Anthropology
9	History and philosophy of science	102	Gerontology	194	Gender researches
10	History of social sciences	103	Dermatology	195	Demography
11	History of era of Middle ages and Renaissance	104	Respiratory system	196	Researches of social problems
	Other humanitarian sciences	105	Integrative and complementary medicine	197	Social sciences – mathematical methods
12	Interdisciplinary researches in the area of humanitarian sciences	106	Clinical neurology	198	Family and psychology of family relations

№ s / s	The area of research	№ s / s	The area of research	№ s / s	The area of research
	Philosophy, ethics, religious science	107	Medicine of accidents	199	Social work
13	Religious science	108	Neuro-visualization	200	Sociology
14	Philosophy	109	Oncology	201	Ethnology
15	Ethics	110	Orthopedics		Economics and business
	Languages and literature	111	+ <i>Otorhinolaryngology</i>	202	Research of operations and methods of management
16	American literature	112	+ <i>Ophthalmology</i>	203	Management
17	Antiquity science	113	Pediatrics	204	Entre- preneur activity
18	Linguistics	114	Psychiatry	205	Labour relations and law
19	Literature	115	Resuscitation	206	Financial management
20	Literature of Great Britain	116	Rheumatology	207	Economics
21	Literature of German-speaking countries, Netherlands and Scandinavian countries	117	Radiology, radiation medicine, medical visualization		Technics and technology
22	Literary criticism	118	Cardiovascular system		Medical technologies
23	Literature of the countries of Africa, Australia, Canada	119	Dentistry and surgical dentistry	208	Bio-medical engineering
24	Poetry	120	Therapy and medical treatment	209	Cellular and tissue engineering
25	Romance literature	121	Transplantology	210	+ <i>Medical laboratory technologies</i>
26	Russian and Slavic literature	122	Urology and nephrology		Mechanics and mechanical engineering
27	Theory of literature and literary criticism	123	Surgery	211	Aero-space technics
28	Folklore science	124	Endocrinology and metabolism	212	Mechanics

№ s / s	The area of research	№ s / s	The area of research	№ s / s	The area of research
29	Languages and linguistics		Sciences about health	213	General mechanical engineering
	Natural and exact sciences	125	Infectious diseases	214	Thermo-dynamics
	Biological sciences	126	Information technologies in the health care	215	Nuclear physics and technologies
30	Biology	127	Research of drug addiction, substance abuse, alcoholism		Nano-technologies
31	Biology of sea and fresh waters	128	Medical deontology	216	Nano-materials and nano-technologies
32	Biology of development	129	Medical rehabilitation		Industrial bio-technologies
33	Bio-physics	130	Medical services	217	Materials science – bio-materials
34	Bio-chemical methods of research	131	Sciences about Sport		Other technologies
35	Bio-chemistry and molecular biology	132	Public health care, hygiene of environment, hygiene of labor	218	Images and photographic technologies
36	Virology	133	Social sciences – bio-medicine	219	Engineering – interdisciplinary
37	Genetics and heredity	134	Organization of health care	220	<i>+Tools and devices</i>
38	Zoology	135	Parasitology	221	Microscopy
39	Limnology	136	Primary medical care	222	Industrial technologies
40	Mathematical and computational biology	137	Food and dietology	223	Spectroscopy
41	Mycology	138	Psychology, psycho-analysis	224	Technologies of mechanical engineering
42	Micro-biology	139	Nurse business		Construction and architecture
43	Sciences about plants	140	Forensic medicine	225	Design and construction of civilian objects
44	Ornithology	141	Tropical medicine	226	Technologies of construction

№ s / s	The area of research	№ s / s	The area of research	№ s / s	The area of research
45	Reproductive biology		Fundamental medicine	227	Transport systems and technologies
46	Conservation of biological diversity	142	Anatomy and morphology		Technologies of materials
47	Cytology	143	Immunology	228	Materials science – paper and wood
48	Evolutionary biology	144	Clinical bio-chemistry	229	Materials science – ceramic materials
49	Ecology	145	Clinical psychology	230	Materials science – composite materials
50	Entomology	146	Neuro-biology	231	Materials science – interdisciplinary
	Computer and information sciences	147	Pathology	232	Materials science – assessment and testing
51	<i>+Informatics – information systems</i>	148	Toxicology	233	Materials science – films and coatings
52	Informatics – artificial intelligence	149	Pharmacology and pharmaceutics	234	Materials science – textiles and fabrics
53	Informatics – cybernetics	150	Physiology	235	Metallurgy and metals science
54	Informatics – applications	151	Experimental medicine		Chemical technologies
55	Informatics – program engineering		Agricultural sciences	236	Chemical technologies and industry
56	Informatics – theory and methods		Veterinary sciences		Ecological bio-technologies
	Mathematics	152	Veterinary	237	Bio-technology and applied micro-biology
57	Logic		Animal-husbandry and dairy business		Electrical-engineering, electronic technics, information technologies
58	Mathematics – interdisciplinary	153	Agricultural sciences – dairy production and zootechnics	238	<i>+ Auto- mated control systems</i>

№ s / s	The area of research	№ s / s	The area of research	№ s / s	The area of research
59	Mathematics – general		Other agricultural sciences	239	Informatics – architecture and hardware
60	Mathematical physics	154	Agrotechnics	240	Science about communications
61	Applied mathematics	155	Food products and technologies of production	241	Robotics
62	Statistics and theory of probabilities	156	Economics of agriculture and agricultural policy	242	Telecommunications
	Sciences about The Earth and related ecological sciences		Agriculture, forestry, fisheries economy	243	Electrical- engineering and electronics
63	Water resources	157	Agronomics		Power engineering and rational nature-usage
64	Geology	158	Forestry	244	Geological mechanical engineering
65	Geo-chemistry and geo-physics	159	Soil science	245	Remote sensing
66	Meteorology and sciences about atmosphere	160	Fishery	246	Mining and processing of mineral resources
67	Mineralogy	161	Gardening, vegetable growing	247	Engineering oceanography
68	Sciences about The Earth – interdisciplinary	162	Agricultural sciences – interdisciplinary	248	Oil mechanical engineering
69	Sciences about environment		Social sciences	249	Ship mechanical engineering
70	Oceanography		Sciences about education	250	Ecological engineering
71	Paleontology	163	Education – correctional	251	Power engineering and fuel
72	Physical geography	164	Education – scientific directions		

№ s / s	The area of research	№ s / s	The area of research	№ s / s	The area of research
	Other natural and exact sciences	165	Education and pedagogics		
73	+ <i>Multi- disciplinary sciences</i>		Politological sciences		
	Physics and astronomy	166	International relations		
74	Acoustics	167	Political sciences		
75	Astronomy and astro-physics	168	Public administration and politics		
76	Atomic, molecular and chemical physics		Law		
77	Optics	169	Criminology and penitentiary system		
78	Applied physics	170	Jurisprudence		
79	Physics – interdisciplinary		Other social sciences		
80	Physics of fluid and plasma	171	Oriental science		
81	Physics of condensed condition	172	Hotel business, leisure, sport and tourism		
82	Physics of elementary particles and quantum theory of field	173	Cultural science		
83	Nuclear physics	174	Social sciences – interdisciplinary		
	Chemical sciences		Psychological sciences		
84	Analytical chemistry	175	Age psychology		
85	Crystallography	176	Mathematical psychology		
86	Nonorganic and nuclear chemistry	177	Sciences about behavior of human and animals		
87	Organic chemistry	178	Public psychology		
88	Polymers	179	Pedagogical psychology		
89	Applied chemistry	180	Applied psychology		
90	Physical chemistry	181	Psycho-biology		
91	Chemistry – interdisciplinary	182	Psychology		
92	Electro-chemistry	183	Psychology – interdisciplinary		
		184	Experimental psychology		
		185	Ergonomics		