

**1. INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION /
ИНФОРМАЦИЯ, ОПРЕДЕЛЯЮЩАЯ ЛИЧНОСТЬ ОБЛАДАТЕЛЯ ДОКУМЕНТА ОБ ОБРАЗОВАНИИ**

1.1 Family Name (s) / Фамилия (и):

1.2 Given Name (s) / Имя (Имена):

1.3 Date of Birth (day/month/year) /

Дата рождения (число/месяц/год):

1.4 Student Identification Number or Code /

Личный идентификационный номер студента или код:

VAKHTER / ВАХТЕР

Vladimir / Владимир Викторович

05/11/1992

**2. INFORMATION IDENTIFYING THE QUALIFICATION /
ИНФОРМАЦИЯ, ОПРЕДЕЛЯЮЩАЯ КВАЛИФИКАЦИЮ**

2.1 Name of Qualification and Name of Title (Full, Abbreviated) /

Наименование квалификации, присужденная степень:

Date of award / Дата присуждения квалификации:

2.2 Main Field(s) of Study for the Qualification /

Основная (ые) специальность (и):

Engineer-physicist / Инженер-физик

28/01/2016

Electronics and Automation of Physical Machines /

140306 Электроника и автоматика физических установок

2.3 Name of Institution Awarding

Qualification, Status (Type /Control) /

Наименование и статус ВУЗа,
выдавшего документ об
образовании:

Federal State Autonomous Educational Institution
of Higher Professional Education «Ural Federal
University named after the first President of
Russia B.N.Yeltsin» / Федеральное
государственное автономное образовательное
учреждение высшего профессионального
образования «Уральский федеральный
университет имени первого Президента России
Б.Н.Ельцина»

Status: Federal University / under the jurisdiction
of the Ministry of Education and Science of the
Russian Federation

2.4 Name of Institution

Administering Studies, Status (Type /

Control) / Наименование и статус

ВУЗа (если он отличается от п. 2.3),
проводящего обучение:

Same as in 2.3 (see 6.1)

2.5 Language(s) of instruction /

examination / Язык (и) обучения /
экзаменов:

Mainly Russian

**3. INFORMATION ON THE LEVEL OF THE QUALIFICATION /
ИНФОРМАЦИЯ О УРОВНЕ КВАЛИФИКАЦИИ**

3.1 Level of Qualification /

Уровень квалификации:

Second stage of tertiary university level higher
education (специалист - specialist)

3.2 Official Length of Programme /

Официальная продолжительность
программы обучения:

According to the Russian Federation Educational
Standard - at least **5.5 years** of study

3.3 Access Requirement(s) /

Вступительные требования:

The Certificate of Secondary (Complete) General
Education (Аттестат о среднем (полном) общем
образовании) + entrance examinations

**4. INFORMATION ON THE CONTENTS AND RESULTS GAINED /
ИНФОРМАЦИЯ О СОДЕРЖАНИИ ОБУЧЕНИЯ И
ДОСТИГНУТЫХ РЕЗУЛЬТАТАХ**

4.1 Mode of Study /

Форма обучения:

Full-time

4.2 Program Requirements /

Требования программы обучения:

The function of the Degree is to provide
academically and professionally oriented
education. Teaching consists of lectures,
seminars, labs, workshops, training, etc. Forms
of assessment are tests, exams, term papers and
projects. A State Final Attestation that includes
the passing of State Cross-disciplinary
Examination and the defense of a diploma
project (thesis) completes the studies.

4.3 Program Details / Детали программы обучения:

Courses (Modules) of the Program, Type of Practice Training	Total Number of AH*	Final Grade	ECTS credits
1. Foreign Language (English)	340	excellent	10.5
2. Physical Education	408	excellent	11.5
3. History of Russia	102	excellent	4
4. Sociology	102	pass	3
5. Philosophy	102	excellent	4
6. General Economic Theory	102	excellent	4
7. Enterprise Economics	102	pass	3
8. Mathematical Analysis	153	excellent	5.5
9. Vector Algebra and Geometry	136	excellent	5
10. Differential Equations and Series	153	excellent	5.5
11. Vector Analysis	153	excellent	5.5
12. Linear Algebra	153	excellent	5.5
13. Functions of Complex Variable	153	excellent	5.5
14. Methods of Mathematical Physics	153	excellent	5.5
15. Probability Theory and Mathematical Statistics	102	pass	3
16. Computer Science	136	pass	4
17. Numerical Methods of Analysis	68	pass	2
18. General Physics	306	excellent	9.5
19. Atomic Physics	187	excellent	6
20. Electrodynamics	102	excellent	4
21. Thermodynamics and Statistical Physics	85	excellent	3.5
22. Chemistry	136	excellent	5
23. Ecology	68	pass	2
24. Engineering Graphics	119	pass	3.5
25. Theoretical Mechanics	102	excellent	4
26. Strength of Materials	68	pass	2
27. Machine Parts and Principles of Designing	68	pass	2
28. Materials Science	68	pass	2
29. Theory of Electrical Engineering	85	excellent	3.5
30. General Electrical Engineering and Electronics	119	pass	3.5
31. Metrology, Standardization and Certification	102	pass	3
32. Life Safety	147	excellent	5
33. Equations of Mathematical Physics	153	excellent	5.5
34. Management and Marketing	102	pass	3
35. Computer Practical Training	136	pass	4
36. Culture Studies	102	excellent	3
37. Jurisprudence	102	pass	3
38. Psychology and Pedagogics	102	pass	3
39. Quantum Mechanics	136	excellent	5
40. Solid-State Physics	136	excellent	5
41. Radiation Sources	153	excellent	5.5
42. Practical Literacy (Russian Language)	68	pass	2
43. History of Science and Technology	68	pass	2
44. Introduction to Speciality	68	pass	2
45. Physical Foundations of Electronic Engineering	153	excellent	5.5
46. Computer Networks and Systems	102	excellent	4
47. Experimental Methods of Nuclear Physics	153	excellent	5.5
48. Nuclear Spectrometry	85	excellent	3.5
49. Nuclear Physics	153	excellent	5.5
50. Hardware Components of Electronics and Automatic Equipment	102	pass	3
51. Electronics and Automation of Physical Machines	252	excellent	8
52. Microprocessor Systems	102	pass	3
53. Computer-aided Design	119	pass	3.5
54. Lab Course in Computer-aided Design	51	pass	1.5
55. Physical Machines	85	excellent	3.5
56. Lab Course in Physical Machines	68	pass	2
57. Information Engineering	119	excellent	4.5
58. Lab Course in Information Engineering	68	pass	2
59. Student's Scientific Research Work	255	pass	7
60. Digital Electronics	136	excellent	5
61. Analogue Circuit Engineering	170	excellent	5.5
62. Microprocessor Engineering	170	excellent	5.5
63. Pulse Technique	102	excellent	4
64. Automatic Control Theory	102	excellent	4
65. Methods and Techniques in Radiometry and Dosimetry	119	excellent	4.5
Practical Training, <i>including:</i> Industrial Internship (1st)	21 weeks	X	31
	5 weeks	excellent	7

Courses (Modules) of the Program, Type of Practice Training	Total Number of AH*	Final Grade	ECTS credits
Pre-Graduation Practical Training	11 weeks	excellent	16
Industrial Internship (2nd)	5 weeks	excellent	7
State Final Attestation, including:	20 weeks	X	30
Final State Cross-disciplinary Examination on Speciality	X	excellent	X
Completion and defense of the Final Diploma Project (Thesis):			
Development of Hardware and Software System for Magneto-optical Measurements	X	excellent	X
PROGRAM TOTAL	286 weeks	X	340
<i>including contact hours</i>	5610 AH	X	

In the framework of the curriculum the student completed the following course papers (projects):

1. Computer Practical Training, *pass*; 2. Designing, Development and Technology of Automated Electronic Systems and Microelectronic Systems for Physical Machines and Scientific Research (1), *excellent*; 3. Designing, Development and Technology of Automated Electronic Systems and Microelectronic Systems for Physical Machines and Scientific Research (2), *excellent*; 4. Designing of Pulse and Microprocessor Technology (1), *excellent*; 5. Designing of Pulse and Microprocessor Technology (2), *excellent*; 6. Designing of Electronic Devices, *excellent*.

*Note: In Russian Federation (RF) the study workload is evaluated in «академические часы» (academic hours, AH); 1 AH = 45 minutes.

4.4 Grading Scheme, Grade
Distribution Guidance /
Система оценок, критерии
оценок

Full Description: excellent (отлично - «отлично», 5); good (хорошо - «хорошо», 4); satisfactory (удовлетворительно - «удовлетворительно», 3); unsatisfactory (неудовлетворительно - «недовлетворительно», 2); pass (зачтено or зачет - «зачтено» or «зачет»). Highest on scale: excellent, lowest on scale: unsatisfactory.

Pass/fail level: satisfactory, pass / unsatisfactory. Students are only permitted to enroll in the next year of study and to be awarded a diploma if they have passing grades in each subject of the curriculum.

Grading Criteria: «excellent» deserves the student for thorough and profound knowledge of the subject and ability to perform tasks on the subjects correctly and freely; «good» deserves the student for full knowledge of the subject and ability to perform tasks on the subject and successful fulfilling of the tasks on the subject; «satisfactory» deserves the student for sufficient knowledge of the subject; «unsatisfactory» deserves the student for substantial gaps in his knowledge of the subject and principal mistakes in fulfilling the tasks.

Statistical data: «excellent» - 23%, «good» - 41%, «satisfactory» - 32% of students receive in average during the examination sessions.

With Honours (С отличием - «S otlichiem»), (GPA 5.0)

The student has completed the course of studies with flying colours, being the holder of personal scholarships: 1. The First President of Russia B.N.Yeltsin scholarship; 2. President of Russian Federation scholarship.

The student was awarded the title «Excellent student» («Отличник учебы»).

4.5 Overall Classification /
Общая классификация
квалификации

The Diploma in a given subject area qualifies graduates to apply for Doctoral Studies – Aspirantura / PhD.

This Diploma gives the right to carry out professional activities where higher education is necessary.

5. INFORMATION ON THE FUNCTION OF THE QUALIFICATION / СВЕДЕНИЯ О КВАЛИФИКАЦИИ

5.1 Access to Further Study /
Доступ к продолжению
обучения

The Diploma in a given subject area qualifies graduates to apply for Doctoral Studies – Aspirantura / PhD.

5.2 Professional Status /
Профессиональный статус

This Diploma gives the right to carry out professional activities where higher education is necessary.

6. ADDITIONAL INFORMATION / ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ

6.1 Additional Information /
Дополнительная информация

Information on the Educational Institution: The Ural Federal University (UrFU) was organised in 2010 on the basis of 2 universities, each with 90 years of history: the Ural State Technical University (USTU-UPI), formerly known as the Ural Polytechnic Institute, and the Ural State University named after A.M.Gorky. UrFU is licensed and accredited by the Ministry of Education and Science of the Russian Federation. UrFU is one of the largest institutions for education and research in Russia.

Official website of the UrFU: <<http://www.urfu.ru>>. Official website of the Ministry of Education and Science of the Russian Federation: <<http://eng.mon.gov.ru>>. National Information Centre on Academic Recognition and Mobility: <<http://www.russianenic.ru>>

7. CERTIFICATION OF THE SUPPLEMENT / ПРИЛОЖЕНИЕ ЗАСВИДЕТЕЛЬСТВОВАНО

This Diploma Supplement refers to the following original Document:
Date of issue: 10/02/2016

Diploma supplement

Rector _____
Ректор _____

V.A.Koksharov
В.А.Кокшаров

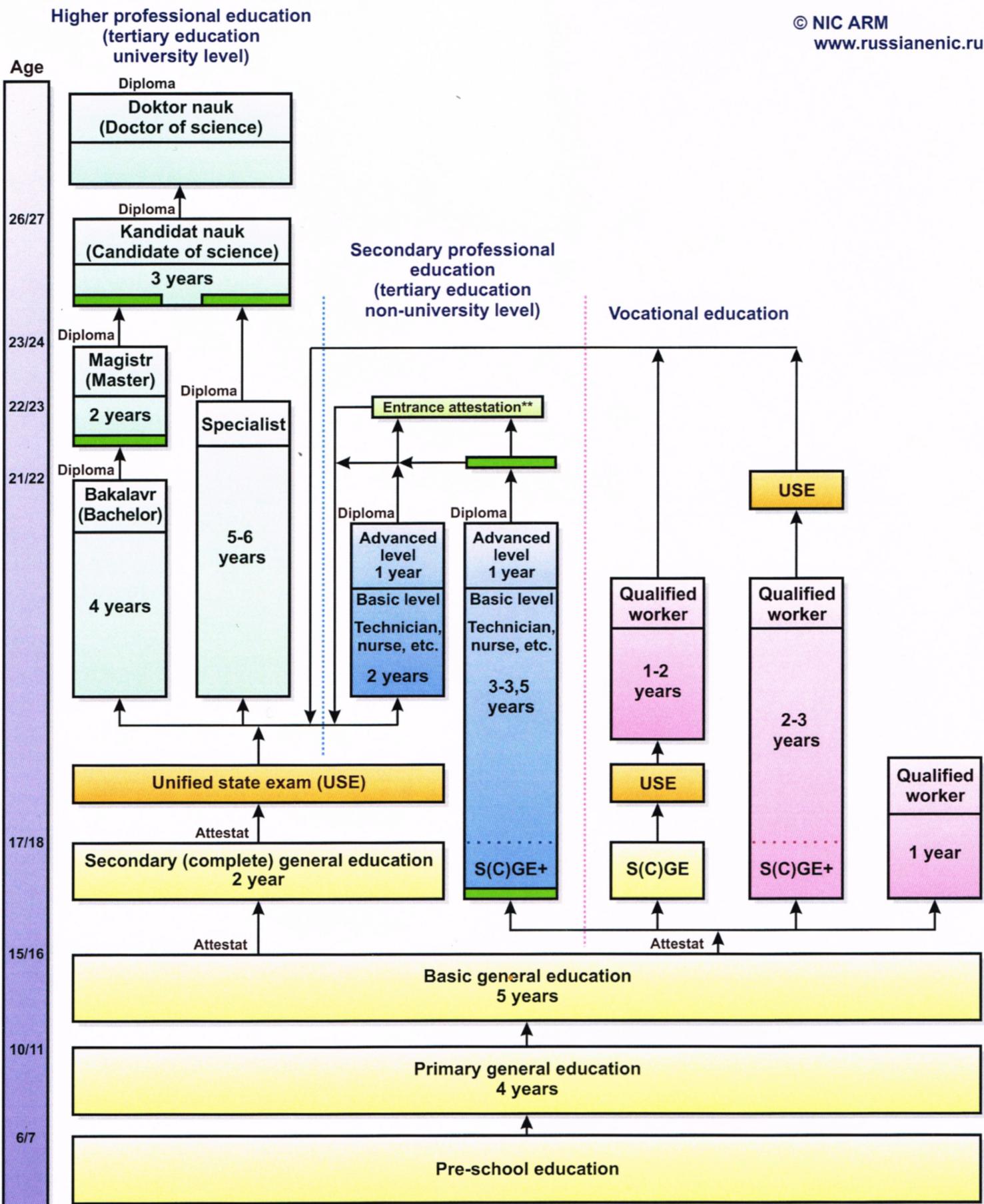
Deputy Vice-Rector for Academic Affairs _____
Заместитель проректора по учебной работе _____

G.M.Kvashnina
Г.М.Квашнина



Date 19/06/2016

8. INFORMATION ON THE NATIONAL EDUCATION SYSTEM /
ИНФОРМАЦИЯ О НАЦИОНАЛЬНОЙ СИСТЕМЕ ОБРАЗОВАНИЯ



© NIC ARM
www.russianenic.ru/

INFORMATION ON THE QUALIFICATION OF SPECIALIST DIPLOMA DEGREE

The traditional qualification of *Specialist* Diploma, the second stage of Higher Education, has two main functions. It opens access to professional practice (e.g., to engineers, teachers, chemists, etc.), and it is also a prerequisite for admission to Doctoral Studies (Master's or PhD Programs).

The qualification of *Specialist* Diploma is conferred after studies lasting five to six years.

The diploma is awarded in all fields of study (specialties).

Access requirements include presence of Certificate on Secondary (Complete) General Education and the results of Unified State Examinations.

The curriculum for students is determined by the department to which they are enrolled.

Teaching consists of lectures, seminars, laboratory works, workshops, training, etc. Forms of evaluation are tests, semester examinations, term papers, and projects.

The State Final Attestation for a *Specialist* Diploma covers State Final Cross-disciplinary Examination and the defense of a diploma project (thesis). The procedure for the State Final Attestation, for the award of the Diploma, as well as for the content of the Supplement to the Diploma is the same as for the Bachelor's Degree.

COMMENTS ON THE GRADING SCHEME

Ural Federal University uses five-point grading scale:

Grade	Numeric Representation	Comment
<i>excellent</i> ("otlichno")	5 (A)	Highest on scale
<i>good</i> ("khorosho")	4 (B)	Above the average
<i>satisfactory</i> ("udovletvoritel'no")	3 (C)	Lowest pass level
<i>unsatisfactory</i> ("neudovletvoritel'no")	2 (D)	Lowest on scale (fail level)
<i>passed</i> ("zachteno" or "zachet")	-	Some subjects are graded on the "Passed/Not passed" basis. The "Passed/Not Passed" grades do not have any official numeric representation and are not used during the GPA calculation.

Each course is characterized by the amount of "Academic Hours" (AH) it lasts. 1 AH = 45 minutes.