



DIPLOMA SUPPLEMENT

Federal State Autonomous
Educational
Establishment of Higher
Professional Education
"Southern Federal
University"

34.01-34/78

CONTROL NUMBER

This Diploma Supplement
follows the model
developed by the European
Commission, Council of
Europe and
UNESCO/CEPES.

The purpose of the
supplement is to provide
sufficient independent data
to improve the international
"transparency" and fair
academic and professional
recognition of qualifications
(diplomas, degrees,
certificates etc.). It is
designed to provide a
description of the nature,
level, context, content and
status of the studies that
were pursued and
successfully completed by
the individual named on the
original qualification to
which this supplement is
appended. It should be free
from any value judgments,
equivalence statements or
suggestions about
recognition. Information in
all eight sections should be
provided. Where information
is not provided, an
explanation should give the
reason why.

1. INFORMATION IDENTIFYING THE HOLDER OF QUALIFICATION

1.1 Family name / first name:	PELENITSYN ARTEM
1.2 Date, place, country of birth:	24.09.1986, Rostov-on-Don, Russia
1.3 Student number or code:	Diploma BMA 0085231

2. INFORMATION IDENTIFYING THE QUALIFICATION

2.1 Name of title (full, abbreviated):	DEGREE OF MASTER of science in applied mathematics and computer science (Akademicheskaya stepen' "Magistr Nauk")
2.2 Main field(s) of study for the qualification:	Field of study: Applied mathematics and computer science Specialization: Foundations and software engineering for computer science
2.3 Name of institution awarding qualification: status (type / control)	Federal State Educational Establishment of Higher Professional Education "Southern Federal University" Федеральное государственное образовательное учреждение высшего профессионального образования «Южный федеральный университет»*
2.4 Name of institution administering studies: status (type / control):	Federal State Educational Establishment of Higher Professional Education "Southern Federal University" Федеральное государственное образовательное учреждение высшего профессионального образования «Южный федеральный университет»*
2.5 Language(s) of instruction/examination:	Russian

3. INFORMATION ON THE LEVEL OF QUALIFICATION

3.1 Level of qualification:	Second stage research based tertiary university level education. <i>Magistr</i> degree programmes are based on <i>Bakalavr</i> degree programmes. According to the International Standard Classification of Education (ISCED) the Qualification applies to the second stage of the three-level higher education (scale 5A)
3.2 Official length of the programme:	At least two years of full-time study or 4336 academic hours (according to the Russian Federation State Educational Standard, c.f. 4.3 note)
3.3 Access requirement(s):	Bakalavr degree and entrance examinations.

4. INFORMATION ON THE CONTENTS AND RESULTS GAINED

4.1 Mode of study:	Full-time study
4.2 Programme requirements:	A <i>Magistr</i> programme is focused on research activities. <i>Magistr</i> programme consists of two equal components: the course component and the independent research component. A State Final Attestation that includes the passing of State Cross-disciplinary Examination and the defence of a thesis completes <i>Magistr</i> studies. Teaching consists of lectures, seminars, workshops, and training, etc. Forms of assessment are tests, oral exams, and course papers. The <i>Magistr</i> thesis is a piece of independent research prepared under the guidance of a supervisor.

4.3 Programme details: See below and in official Russian form of diploma supplement attached to *Magistr* degree certificate.

No	Subjects	Total number of academic hours	Credits ECTS	Grades
Year 1 (2007-2008)				
Semester 1				
1.	Foreign language (English)	140	4	excellent
2.	Advanced information technologies	93	2	excellent
3.	Advances in mathematics and computer science	93	2	excellent
4.	Advanced numerical analysis	100	3	excellent
5.	Applied cryptography and advanced cryptanalysis	106	3	excellent
6.	Parallel computing and program transformations	106	3	passed
7.	Special bases in algebraic geometry codes	106	3	passed
8.	Research work	380	11	passed
	Total number of Credits:	1124	31	
Semester 2				
9.	Advances in mathematics and computer science	92	2	passed
10.	Advanced information technologies	92	2	passed
11.	Foreign language (English)	140	4	passed
12.	Advanced numerical analysis	100	3	passed
13.	Automata and languages	106	3	excellent
14.	List decoding of error-correcting codes	106	3	excellent
15.	Research work	380	11	passed
	Total number of Credits:	1016	28	

№	Subjects	Total number of academic hours	Credits ECTS	Grades
Year 2 (2008-2009)				
Semester 3				
16.	Foreign language (English)	140	4	passed
17.	History and methodology of applied mathematics and computer science	80	2	passed
18.	Advanced algebra	200	5	excellent
19.	Distributed computing	106	3	passed
20.	Computer architecture	106	3	passed
21.	Finite graphs and applications	108	3	excellent
22.	Research work	380	11	passed
	Total number of Credits:	1120	31	
Semester 4				
23.	Final qualification exam	216	6	excellent
24.	Defence of the Master's thesis (including 8 weeks on preparation of the Master's thesis)	860	24	excellent
	Total number of Credits:	1076	30	
	Programme total:	4336	120	

Disciplines studied during the previous 4 years are listed in Diploma Supplement to the Diploma of Bachelor of science in Applied mathematics and computer science

4.3 Programme details:

Course papers: is not stipulated

Final qualification exam: Philosophy, excellent

Preparation and defence of the Master's thesis: «BMS-algorithm and its application to decoding», excellent

Note:

a) In Russian Federation (RF) the study workload is evaluated in «академические часы» (*academicheskie chasy* – academic hours or AH). 1 AH = 45 minutes. Now it is possible to evaluate workload in RF Units (RFU, according to the RF Ministry of Education Recommendation № 14-52-988ин/13 from 28.11.2002). 1 RF Unit = 36 academic hours or 27 astronomical hours;

b) 1 week of full-time study = 54 AH = 1,5 RFU.

4.4 Grading scheme, grade distribution guidance:	Grades ECTS	Definition	Correlation with the marks of the Russian system of education
	A	Best results with insignificant mistakes	«отлично» (<i>otlichno</i>) excellent;
	B	Upper-intermediate level with several mistakes	«хорошо» (<i>khorosho</i>) good;
	C	Good work but with a number of serious mistakes	
	D	Not bad work but with serious shortfalls	«удовлетворительно» (<i>udovletvoritelno</i>) satisfactory;
	E	Level of knowledge equals minimal requirements	
	FX	Additional effort is needed to get a credit	«неудовлетворительно» (<i>neudovletvoritelno</i>)
	F	Great additional efforts are needed	
	«зачтено» (<i>zachteno</i>) passed «не зачтено» (<i>ne zachteno</i>) The lowest passing grade is «удовлетворительно» and «зачтено». 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.		
4.5 Overall classification:	without honours, без отличия (<i>bez otlichiya</i>)		

5. INFORMATION ON THE FUNCTION OF THE QUALIFICATION

5.1 Access to further study:	<i>Magistr</i> degree entitles their holders to be admitted to postgraduate educational programmes.
5.2 Professional status:	This Diploma gives the right to carry out professional activities where higher education is necessary.

6. ADDITIONAL INFORMATION

6.1 Additional information:	<p>Southern Federal University (SFedU) is the largest centre of education, science and culture in the South of Russia. Currently SFedU has 49,741 students and 24,229 full-time students.</p> <p>The structure of SFedU includes 36 faculties, 206 chairs and 3 institutes that conduct training in 219 majors and courses, including 136 majors for graduates, 53 courses for bachelors and 30 courses for masters.</p> <p>The university provides effective postgraduate education. More than 2000 post-graduate students and degree candidates specialize in 124 majors and 95 doctor students specialize in 31 majors.</p> <p>There are 37 specialized boards for thesis defence in 88 majors, including 25 boards for doctoral thesis defence, which serve as an acknowledgement of the scientific progress made by SFedU.</p> <p>The staff of SFedU includes more than 8 thousand people, 3 947 of them being teachers, scientists and scholars. 7 people of the latter are full members and corresponding members of state academies, 160 people are members and corresponding members of public Russian and international academies of science, 391 people are doctors of science and 1540 people are candidates of science.</p> <p>The University has 2 campuses in Rostov-on-Don and Taganrog, a vast complex of a botanical garden, a large academic library, research centers at the Black sea coast and in the Caucasus.</p> <p>http://sfedu.ru/docs/ufudoc/license_new.pdf - license of Southern Federal University</p> <p>http://sfedu.ru/docs/ufudoc/akreditacy-ufu.pdf - accreditation of Southern Federal University</p>
6.2 Additional information sources:	<p>http://sfedu.ru - Southern Federal University</p> <p>http://www.ed.gov.ru - The ministry of education and science, Federal agency of education</p> <p>http://en.russia.edu.ru/ - Information and analytical system education in Russia for foreigners</p>

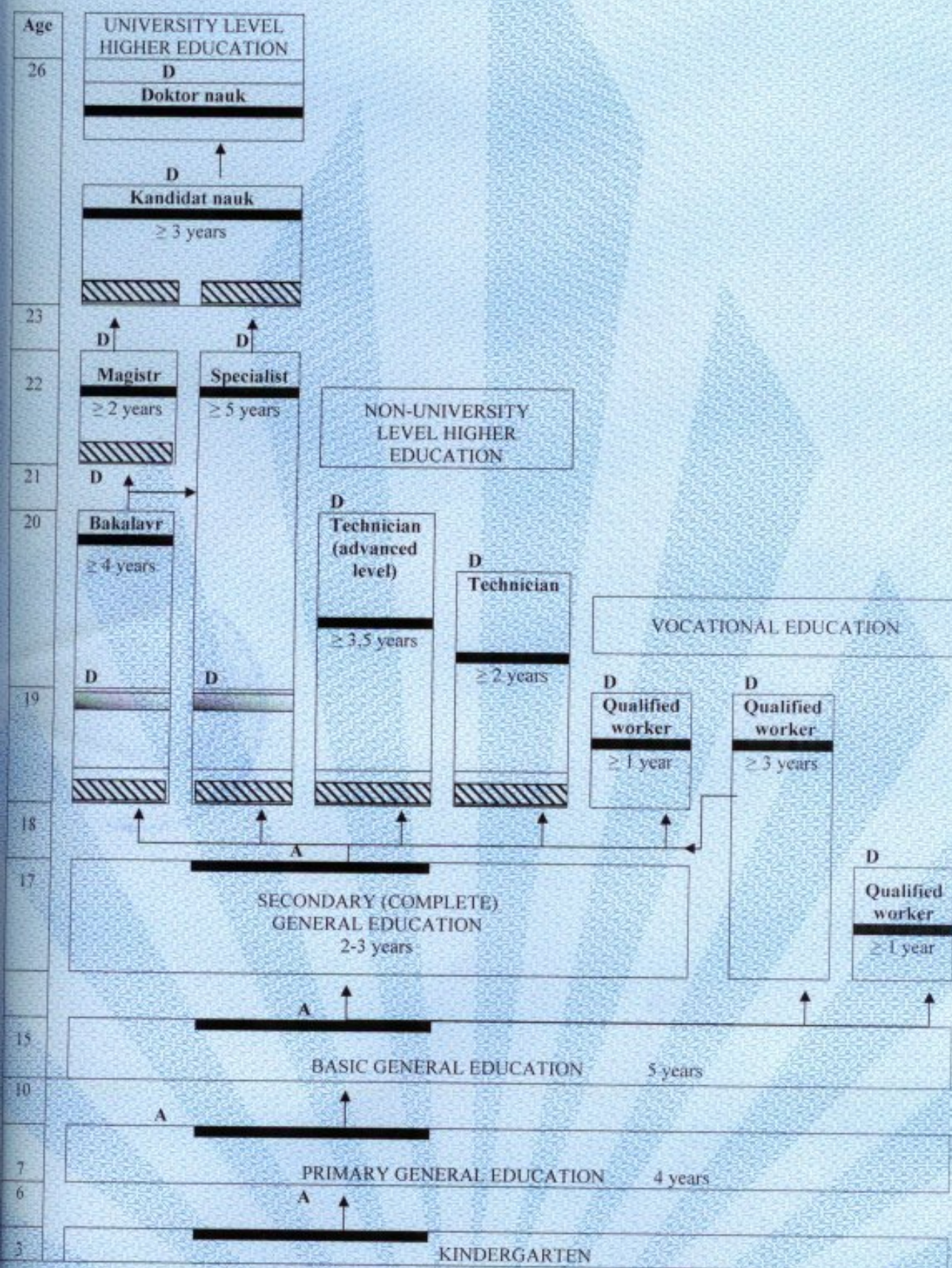
The order of Federal Agency on Education of 17.02.2010 № 125 established federal state autonomous educational establishment of higher professional education "Southern Federal University" by changing the type of existing federal state autonomous educational establishment of higher professional education "Southern Federal University"

7. CERTIFICATION OF THE SUPPLEMENT

This Diploma Supplement refers to the following original documents:
Diploma BMA 0085231 Date of issue: 30.06.2009

7.1 Date:	24.11.2011
7.2 The name and signature:	Igor M. Uznarodov, professor
7.3 Appointment:	Senior Vice-Rector for Academic Affairs
7.4 Official stamp:	Irina N. Savchenkova Director of the Center for International Education

8. INFORMATION ON THE NATIONAL EDUCATION SYSTEM



Entrance exams

Intermediate attestation

Final attestation

A - Attestat

D - Diploma