# SOUTHERN FEDERAL UNIVERSITY



# DIPLOMA SUPPLEMENT

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

34.08-34/77

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 ВБА 0344255	

### 2. INFORMATION IDENTIFYING THE QUALIFICATION

2.1Name of title (full, abbreviated):	Degree of BACHELOR OF SCIENCE IN APPLIED MATHEMATICS AND COMPUTER SCIENCE (Akademicheskaya stepen' «Bakalavr 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):	State Educational Establishment of Higher Professional Education "Rostov State University" Государственное образовательное учреждение высшего профессионального образования «Ростовский государственный университет»
2.5 Language(s) of	Russian

## 3. INFORMATION ON THE LEVEL OF QUALIFICATION

	200 M. C.		
3.1 Level of qualification:	First stage of tertiary university level higher education. According to the International Standard Classification of Education (ISCED) the qualification applies to the first stage of higher education (scale 5A)		
3.2 Official length of the programme:	Period of studies - 4 years or 8631 academic hours (according to the Russian Federation State Educational Standard).		
3.3 Access requirement(s):	High secondary school certificate and entrance examinations.		

# 4. INFORMATION ON THE CONTENTS AND RESULTS GAINED

4.1 Mode of study:	Full-time study	
4.2 Programme requirements:	Field of studies of Bakalavr is more academic than professional Academic activity consists of lectures, seminars and practical training. Theoretical education includes scientific and research work of students, practical courses including laboratory courses Examinations, testing, academic year papers and projects are the principal forms of knowledge control. Final qualification examincludes passing of the state interdisciplinary exam and public defence of final research Bakalavr paper in the presence of the committee of teachers and outresourced experts.	

4.3 Programme details: See below and in official Russian form of diploma supplement attached to Bakalavr Diploma.

Nº	Subjects	Total number of academic hours	Credits ECTS	Grades
	Year 1 (200	3-2004)		
	Semeste	r1		
1.	Foreign language (English)	136	4	passed
2.	History of Russia	136	4	passed
3.	Russian language: culture of oral and written speech	1 68	2	passed
4.	Physical training	76	2	passed
5.	Calculus	180	5	passed
6.	Geometry and algebra	172	5	excellent
7.	Computer science	92	2	excellent
	Total number of Credits:	860	24	
	Semeste	r2		
١.	Foreign language (English)	136	4	passed
	Physical training	76	2	passed
10.	Calculus	180	5	excellent
l.	Geometry and algebra	172	5	good
2.	Discrete mathematics	153	4	excellent
3.	Practical course on computer programming	80	2	passed
	Total number of Credits:	797	22	

Nº	Subjects	Total number of academic hours	Credits ECTS	Grades
	Year 2 (	2004-2005)		
	Sem	ester 3		
14.	Foreign language (English)	136	4	passed
15.	Philosophy	204	6	passed
16.	Physical training	76 180	5	passed excellent
17.	Calculus			
18.	Geometry and algebra	176	5	excellent
19.	Practical course on computer programming	80	2	passed
20.	Physics	102	3	passed
21.	Programming languages and compilers	90	2	excellent
22.	Differential equations	102	3	passed
	Total number of Credits:	1146	32	
	Sem	ester 4		
23.	Foreign language (English)	136	4	excellent
24.	Physical training	76	2	passed
25.	Calculus	180	5	excellent
26.	Physics	102	3	excellent
27.	Systems and application software	90	2	passed
28.	Differential equations	102	3	good
456	Economics	170	5	passed
29.	Computer networks	102	3	passed
30.		958	27	
	Total number of Credits:	A CONTRACTOR OF THE PARTY OF TH	4	
	Control of the second s	2005-2006)		
	Calculus of variations and mathematical	ester 5		good
31.	optimization	136	4	see all see
32.	Calculus	180	- 5	excellent
33.	Functional analysis	136	4	excellent
34.	Numerical analysis	76	2	excellent
35.	Advanced algebra	72	2	excellent
36.	Number theory	71	2	excellent
37.	Specialization laboratories	120	4	passed
38.	Continuum mechanics	102	3	excellent
39.	Advanced programming	102	3	passed
40.	Theoretical mechanics	204	3	good
41.	Practical course on computer programming	80	3	passed
42.	Partial differential equations	102	3	passed
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V2	Subjects	Total number of academic hours	Credits ECTS	Grades
	Semester 6			
13.	Functional analysis	136	4	good
14.	Theory of probabilities and mathematical statistics	102	3	passed
15.	Partial differential equations	102	3	excellent
16.	Cryptography	70	2	excellent
17.	Introduction to error-correcting codes	71	2	excellent
8.	English language (elective course)	136	4	passed
19.	Practical course on computer programming	80	2	passed
0.	Bases of political and social science	136	4	passed
1.	Operations research	120	3	passed
52.	Research work (Course paper)	255	7	excellent
	Total number of Credits:	1208	34	
	Year 4 (2006-200	7)		
	Semester 7			
	Theory of probabilities and mathematical statistics	102	3	excellent
3.	Databases	102	3	
4.		76	2	excellent
5.	Cyclic codes	52	2	passed
6.	Digital signal processing	77	2	excellent
7.	Numerical analysis	68	2	passed
58.	History of religion			925 PA
9.	Practical course on computer programming	88	2	passed
0.	Life safety	102	3	passed
11.	Operating systems	68	2	passed
2.	Specialization laboratories	122	3	passed
3.	Logic and computation (elective course)	34	1	excellent
4.	Research work (Course paper)	226	6	excellent
	Total number of Credits:	1117	31	
	Semester 8			
	Mathematical models in modern natural science			excellent
5.	Network security	120	3	passed
6.		100	3	passed
7.	Language C# and platform .NET	100	3	passed
8.	Supercomputers	102	3	passed
9.	Jurisprudence	136	4	
0.	Specialization laboratories	122	3	passed
1.	Stochastic processes	68	2	passed
2.	Final qualification exam	200	5	good
3.	Preparation and defence of the diploma thesis, 4 weeks	216	6	excellent
Z.	Total number of Credits:	1164	32	
98	Programme total:	8631	240	

#### 4.3 Programme details:

#### Course papers:

- 1. On databases, excellent
- 2. Knapsack cryptosystem, excellent

Final qualification exam: Applied mathematics, good

<u>Preparation and defence of the diploma thesis</u>: «Berlekamp-Massey algorithm over Galois fields and its application», excellent

#### Note:

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

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

4.4 Grading scheme,	Grades ECTS	Definition	Correlation with the marks of the Russian system of education		
grade distribution guidance:	A	Best results with insignificant mistakes	«отлично» (otlichno) excellent;		
	В	Upper-intermediate level with several mistakes			
	С	Good work but with a number of serious mistakes	«хорошо» (khorosho) good;		
	Ð	Not bad work but with serious shortfalls			
	E	Level of knowledge equals minimal requirements	«удовлетворительно» (udovletvoritelno) satisfactory;		
	FX	Additional effort is needed to get a credit			
	F	Great additional efforts are needed	«неудовлетворительно» (neudovietvoritelno)		
	«зачтено» (zachteno) passed «не зачтено» (ne zachteno)  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 (bez otlichiya)				

# 5. INFORMATION ON THE FUNCTION OF THE QUALIFICATION

5.1 Access to further study:	The Degree entitles their holders to be admitted to further education the second cycle of education (Master Degree)	
5.2 Professional status:	Bakalavr can be employed on positions prescribed by the legislation of the Russian Federation for individuals with higher professional education.	

# 6. ADDITIONAL INFORMATION

#### Southern Federal University (SFedU) is the largest centre of education, 6.1 Additional information: science and culture in the South of Russia. Currently SFedU has 49,741 students and 24,229 full-time students. 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. 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. 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. 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. 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. http://sfedu.ru/docs/ufudoc/license new.pdf - license of Southern Federal University http://sfedu.ru/docs/ufudoc/akreditacy-ufu.pdf - accreditation of Southern Federal University http://sfedu.ru - Southern Federal University 6.2 Additional information http://www.ed.gov.ru - The ministry of education and science. Federal sources: agency of education http://en.russia.edu.ru/edu/description/- Information and analytical system

\*Due to the legislative act of the Government of the Russian Federation from November, 23, 2006, No 1616-p the following state establishments of higher professional education "Rostov State University", "Rostov State Academy of Architecture and Arts", "Rostov State Pedagogical University", "Taganrog State Radiotechnical University" have been reorganized by means of adjunction of the establishments to the university with the constitution of federal state educational establishment of higher professional education "Southern Federal University"

education in Russia for foreigners

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: Bakalavr Diploma BEA 0344255, date of issue: 01.04.2008.

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

