



This Diploma Supplement model was 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.).

1. Contents And Results Gained

1.1 Mode of study Full-time

1.2 Programme requirements / Qualification profile of the graduate

The function of the Degree is to provide a more academically rather than professionally oriented education. Teaching consists of lectures, seminars, workshops, and training, etc. Forms of assessment are tests, oral and written exams, and course papers. A State Final Attestation that includes the passing of State Cross-disciplinary Examination and the defence of a thesis completes Bachelor studies.

2. Holder Of The Qualification

2.1 Family name KORYACHKO

2.2 Given name ALEXANDR SERGEYEVICH

2.3 Date (DD/MM/YYYY), place, country of birth 04/02/1986, YEMVA, KOMI REPUBLIC, USSR

2.4 Student ID number or code u231101

Rating 97.4 % (9-th place among 256 students)

3. Qualification

3.1 Name of qualification and (if applicable) title conferred Bachelor of Computer Science

3.2 Main field(s) of study Information and Computer Science

3.3 Institution awarding the qualification (in original language)

Национальный исследовательский университет «МИЭТ»

Status (Type / Control)

University / State

3.4 Institution administering studies (in original language)

See 3.3

3.5 Language(s) of instruction/examination Russian

4. Level Of The Qualification

4.1 Level of qualification

Bachelor's Degree

4.2 Official length of program

In full-time mode 4 years

4.3 Access requirement(s) Certificate of Secondary Complete General Education

4.4 Programme details				
N	Discipline	AH	Mark	ECTS
1	History of Motherland	170	5 (Excellent)	4
2	Philosophy	170	5 (Excellent)	4
3	Economics	112	4 (Good)	3
4	Industrial and Scientific Management	102	Credited	3
5	Fundamentals of Marketing	112	Credited	3
6	Political Science	44	Credited	2
7	Science of Law	34	Credited	2
8	Psychology and Pedagogy	112	Credited	3
9	Russian Language and Speech Culture	68	Credited	2
10	Foreign Language (English)	408	5 (Excellent)	8
11	Physical Culture	408	Credited	2
12	Linear Algebra and Analytical Geometry	170	5 (Excellent)	6
13	Fundamentals of Mathematical Analysis	408	5 (Excellent)	10
14	Differential Equations	102	Credited	3
15	Advanced Mathematical Analysis	272	5 (Excellent)	6
16	Probability Theory and Mathematical Statistics	136	4 (Good)	4
17	Discrete Mathematics	102	5 (Excellent)	3
18	Numerical Methods	102	5 (Excellent)	4
	Project		5 (Excellent)	
19	Informatics	136	Credited	4
20	Algorithmic Languages and Programming	170	Credited	4
21	Ecology	68	Credited	2
22	Physics	612	5 (Excellent)	12
23	Chemistry	102	Credited	3
24	Information Theory	68	5 (Excellent)	2
25	Mathematical Logic and Theory of Algorithms	102	Credited	3
26	Arithmetic and Logical Fundamentals of Computers	102	5 (Excellent)	3
27	Engineering and Computer Graphics	136	Credited	4
	Project		5 (Excellent)	
28	General Algebra and Cryptology Fundamentals	102	Credited	3
29	Fundamentals of Electrical Engineering and Circuit Theory	340	5 (Excellent)	10
	Project		5 (Excellent)	
30	Metrology, Standardization and Certification	102	Credited	3
31	Life Safety	102	Credited	3
32	Computer Circuit Engineering	136	4 (Good)	4
33	Microprocessor Systems	136	5 (Excellent)	4
	Project		5 (Excellent)	
34	Radio Electronics	170	5 (Excellent)	6
35	Pulse Technology	170	4 (Good)	6
	Project		5 (Excellent)	

36	Fundamentals of Radio Engineering	136	Credited	4
37	Physical Fundamentals of Computer Hardware	136	4 (Good)	4
38	Theory of Information Safety and Protection	136	5 (Excellent)	2
39	Information Safety Legal Support	136	Credited	4
40	Engineering Protection of Information	136	5 (Excellent)	4
41	Organizational Support of Information Safety	119	Credited	3
42	The Protection and Handling of Confidential Documents	119	5 (Excellent)	3
43	Information Protection Equipment	102	5 (Excellent)	3
44	Mathematical Foundations of Cryptology	102	5 (Excellent)	3
45	Site Protection Equipment	102	5 (Excellent)	3
46	Software-Hardware Information Protection	136	Credited	4
	Project		5 (Excellent)	
47	Information Protection Economics	102	Credited	3
48	Data Protection in Computer Systems	136	5 (Excellent)	4
49	IC Design and Technology	102	Credited	3
50	Cryptographic Methods in Information Safety	102	5 (Excellent)	3
51	Computer Systems Architecture	119	Credited	4
52	Object-oriented Programming	136	5 (Excellent)	4
53	Programming Technology	102	Credited	3
54	Computer Operating Systems	102	5 (Excellent)	3
55	Telecommunication Systems and Networks	136	5 (Excellent)	4
56	Computer Networks and Telecommunications	136	5 (Excellent)	4
57	Practice		5 (Excellent)	8
58	State Cross-disciplinary Examination		5 (Excellent)	2
59	Qualifying Work On “Digital Terrestrial Television Signals Processing Methods”		5 (Excellent)	10
	Total	8319		240
	Including Classroom	4563		

AH = Academic Hour (One Academic Hour is 45 minutes)

	Subjects which are Graded		Subjects which are Credited
Categories for Pass	“Excellent”	5	Credited
	“Good”	4	
	“Satisfactory”	3	
Not Pass	“Unsatisfactory”	2	Not Credited

4.5 Grading scheme with Honors (“Red Diploma”)

Nowadays Diploma with Honors (“Red Diploma”) can be given to graduate according to marks in Diploma Application, including discipline, project, practice and state certification marks. State certification results must only be “Excellent” marks. There should be not less than 75% “Excellent” marks in Diploma Supplement, including state certification marks, the other marks should be “Good” only.

4.6 Overall classification (in original language) with Honors (с отличием)

5. Function Of The Qualification

5.1 Access to further study

Access to the Master’s Degree

5.2 Professional status

Bachelor of Computer Science

6. Additional Information

6.1 Additional Information about National Research University of Electronic Technology «MIET»

1965 Moscow Institute of Electronic Technology is founded.

1984 MIET is awarded with Red Labor Banner Order for outstanding achievements in education and research.

1994 Research Manufacturing Center MIET is given the rank of State Research Center of the Russian Federation.

2006 MIET Innovation complex is included into Free Economic Zone «Zelenograd». MIET becomes one of the 17 winners of national competition among higher education institutions implementing innovative education programs (National Priority Project “Education”). Department of Graphic Design is established.

2010 MIET is granted the status of National Research University.

According to the Russian Ministry of Education rating, MIET takes 15th place among 164 Russian technical institutes (**2002**), 8th place (**2003**). In recent years MIET has been ranked among the top 10 technical universities of Russia.

6.2 Further information sources www.miet.ru

7. Certification

This Diploma Supplement refers to the following original documents:

AB5 0673761

7.1 Degree award certificate issued on

1 July 2007

7.2 Diploma / Degree / Certificate awarded on

29 June 2007

7.3 Certification date

10 November 2011

7.4 Vice-Rector



S.V. Umniashkin

7.5 Dean



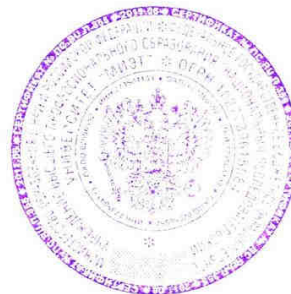
S.A. Lupin

7.6 Secretary



I.V. Spiridonova

7.7 Official stamp/seal



8. National Higher Education System

The information on the national higher education system on the following pages provides a context for the qualification and the type of higher education that awarded it.

8.1 Education in Russia

Due in great part to demands of the international educational organizations, the system of education in Russia began to change. Universities began transitioning to a system similar to that of Britain and the USA: 4 years for the Bachelor's degree and 2 years for a Master's degree. The universities are still in the process of these changes; some of them offer the new system and others still work according to the prior 5-year system, particularly in programmes such as law.

8.2 Compulsory Basic Education

Basic general education lasts for nine years. Graduates of this level may continue their education at senior high school to receive secondary general education. They may also enter an initial vocational school or non-university level higher education institutions. Initial vocational schools include PTU (*Professional'no-technicheskoe uchilische*) which offer one-and-a-half to two years' purely professional education and a Professional'ny Litsei which offer joint professional and secondary general education for three to four years and skilled workers' training at different levels. Non-university level higher education institutions also offer three- to four-year professional and secondary general education and two-year vocational training for holders of the School Leaving Certificate. Secondary general education on the basis of basic general education continues for two years and ends when students are 17-18. Graduates from a secondary general school may apply for entrance to a higher education institution. Secondary education leads to the award of the *Attestat o Srednem (Polnom) Obshchem Obrazovanii* (Certificate of Secondary Complete General Education).

8.3 Higher Education

Higher education is provided by public and non-public (non-State) accredited higher education institutions. There are two levels of higher education:

- Basic higher education (4 years) leading to the *Bakalavr's degree*, the first university level degree. This is equivalent to the B.Sc. degree in the US or Western Europe
- Postgraduate higher education (5-6 years or more). After two years, students are entitled to receive a *Magistr's degree*. This is equivalent to a Master's Degree (M.Sc, M.A.) in the US or Western Europe. After a Master's degree, students can continue to study towards a doctoral degree: *Kandidat Nauk degree* (the first level, equivalent to Ph.D.) and *Doktor Nauk degree* (the second, highest level, equivalent to Professor).

The *Bakalavr's* (Bachelor's) degree programmes last for at least 4 years of full-time university-level study. The programmes are elaborated in accordance with the State Educational Standards which regulate almost 80% of their content. The other 20% are elaborated by the university itself. The programmes include professional and special courses in Science, the Humanities and Social-economic disciplines, professional training, completion of a research paper/project and passing State final exams. Having obtained the *Bakalavr's* degree, students may apply to enter the *Magistr's* programme or continue their studies in the framework of the Specialist's Diploma programmes. The *Bakalavr's* degree is awarded in all fields except Medicine after defending a Diploma project prepared under the guidance of a supervisor and passing the final exams. In Medicine, the first stage lasts for six years.

Holders of the *Bakalavr's* (Bachelor's) degree are admitted to enter the Specialist Diploma and *Magistr's* (Master's) degree programmes. Access to these programmes is competitive. The *Magistr's* (Master's) degree is awarded after successful completion of two years' full-time study. Students must carry out a year of research including practice and prepare and defend a thesis which constitutes an original contribution and sit for final examinations.

Access to the *Kandidat Nauk (Aspirantura)* level again is very competitive. Candidates must hold a Specialist Diploma or a *Magistr's* degree. Studies last for 3 years. The *Aspirantura* prepares for research and professorial activities. Students must learn teaching methods, ICTs, and pass qualifying (*Kandidat Nauk*) exams. They carry out independent research, prepare and defend a dissertation in public. They are then awarded the scientific degree of *Kandidat Nauk*. The *Doctor Nauk* programme is specific and its duration is not fixed. It follows the *Kandidat Nauk* and is awarded after preparation and public defence of a dissertation.

8.4 Entry requirements for Russia's universities

Russia's top universities have very competitive entry requirements. Citizens of Russia should pass Unified State Exam to enter the university.

Applicants for advanced degrees (M.A./M.Sc., Ph.D., D.Sc.) should have their prior degree in the same or a very similar field. This is a more strict requirement than in some other countries, especially the US.

The academic year lasts from Sept 1 to Mid June everywhere, with long summer vacations from July 1st to Aug 31.

TABLE 1: Institutions, Programmes And Degrees In Russian Higher Education

