

DIPLOMA SUPPLEMENT

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 THE QUALIFICATION		
1.1	Family name(s)	ISAKOV
1.2	Given name(s)	ARTEM
1.3	Date of birth (day/month/year)	25/02/2000
1.4	Student identification number or code	M-2023-5029
2. INFORMATION IDENTIFYING THE QUALIFICATION		
2.1	Name of qualification and title conferred	Магистр (Master). Name of title is not applicable.
2.2	Main field(s) of study for the qualification	Biotechnical Systems and Technologies Specialization: Information Systems and Technology in Patient Care Institutions
2.3	Name and status of awarding institution	Санкт-Петербургский государственный электротехнический университет «ЛЭТИ» им. В.И. Ульянова (Ленина) (Saint Petersburg Electrotechnical University "LETI"). Status: State University/ under jurisdiction of the Ministry of Science and Higher Education of the Russian Federation
2.4	Name and status of institution administering studies	Same as in 2.3
2.5	Language(s) of instruction/examination	Mainly Russia
3. INFORMATION ON THE LEVEL OF THE QUALIFICATION		
3.1	Level of qualification	According to the International Standard Classification of Education (ISCED-2011) the qualification applies to the ISCED level 7 "master or equivalent" with academic orientation (ISCED program code – 747).
3.2	Official length of programme	At least two years of full-time study, 120 RF units.
3.3	Access requirement(s)	Bachelor's degree (at least four years of full-time study or 240 RF unit)
4. INFORMATION ON THE CONTENTS AND RESULTS GAINED		
4.1	Mode of study	Full-time
4.2	Programme requirements	In accordance with the State Educational Standard the Master's programme consists of two approximately equal components: the course component (including advanced professional and special courses) with a final state examination and the independent research component resulting in preparation of the thesis under the guidance of a supervisor and its defence.
4.3	Programme details	Programme details include subjects, study work in RF units, national grades and ECTS grades.
4.4	Grading scheme, grade distribution guidance	<p>In the Russian Federation the study workload is evaluated in Academic Hours (AH). One AH is 45 minutes. Workload of practical training, preparation and defense of Graduation Project is evaluated in weeks. One week of full-time study is 54 AH. One RF units is approximately equal to 36 AH of total workload.</p> <p>The national grades are based on a 2 to 5 scale, where «excellent» (отлично - otlichno) stands for 5 out of 5; «good» (хорошо - khorosho) stands for 4 out of 5; «satisfactory» (удовлетворительно - udovletvoritelno) stands for 3 out of 5; «fail» (неудовлетворительно - neudovletvoritelno) stands for 2 out of 5.</p> <p>The assessment can be also made in terms of: «passed» (зачтено - zachteno) or «not passed» (не зачтено - ne zachteno).</p> <p>The lowest passing grade is «satisfactory» (удовлетворительно) and «passed» (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.</p> <p>The university grade scale is in the following correspondence with ECTS grades: «excellent» - A; «good» - C; «satisfactory» - D; «fail» - F</p>
4.5	Overall classification	Диплом с отличием (Diplom s otlichem - Diploma with Honors)

№	Subjects Studied	RF units	National Grade	ECTS Grade
1 semester				
1	Commercialization of the Results Scientific Research and Development	2	excellent	A
2	Methods of Computer Processing and Analysis of Medical and Biological Data	4	excellent	A
3	Networks and Databases	5	excellent	A
4	Automation of Biomedical Research	4	excellent	A
5	Bases of Management & Marketing at Medical Industry Enterprises	3	excellent	A
6	Foreign Language	2	excellent	A
7	Software of Medical Information Systems Design	4	excellent	A
2 semester				
8	Social Communication in a Professional Environment	2	excellent	A
9	Modern Problems of Biomedical Engineering	3	excellent	A
10	Foreign Language	2	excellent	A
11	Automated Analysis of Images	4	excellent	A
12	Technologies for Development of the Software Complexes for the Medical Information Systems	3	excellent	A
13	Automation of the Treatment Process Technologies	4	excellent	A
3 semester				
14	Biotechnical Systems and Technologies	4	excellent	A
15	Foreign Language	2	excellent	A
16	Interdisciplinary Project "Development of Medical Decision Support System"	3	excellent	A
17	Medical Measuring Terminals	3	excellent	A
18	Medical Systems of Computer Tomography	3	excellent	A
19	Decision Support Systems and Technologies	3	excellent	A

Preparation and defense of the Master's Thesis:

	"The Development of the Mobile Application for Personalized Monitoring of Patients with Diabetes Mellitus"	9	excellent	A
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Practical Training:

1	Internship (Research Project) (1 sem.)	6	excellent	A
2	Internship (Research Project) (2 sem.)	6	excellent	A
3	Academic Internship (Engineering and Manufacturing) (2 sem.)	6	excellent	A
4	Internship (Research Project) (3 sem.)	12	excellent	A
5	Internship (Pre-degree Internship) (4 sem.)	21	excellent	A

Total Number of Credits: **120**

Course Papers:

1	Development of Automated System of Medical Institution (1 sem.)		excellent	A
2	Diagnosis of the Disease by Multivariate Statistical Analysis (1 sem.)		excellent	A

5. INFORMATION ON THE FUNCTION OF THE QUALIFICATION		
5.1	Access to further study	Master's Degree entitles their holders to be admitted to doctoral study programmes (aspirantura) (ISCED-2011 level 8).
5.2	Professional Status	This Diploma gives the right to carry out professional activities in accordance with the level of education and qualification.
6. ADDITIONAL INFORMATION		
6.1	Additional Information	<p>Saint Petersburg Electrotechnical University "LETI" (ETU "LETI") was established in 1886 as an Engineering College of the Department of Post and Telegraph of Russia. In 1891 it was reorganized into the Imperial Institute of Electrical Engineering – the first in Europe higher education institution for engineers and researchers in the field of Electrical Engineering. Since then ETU "LETI" was renamed several times. In 1992 the Institute was granted the university status and became the first Electrotechnical University in Russia. The University was regularly accredited by State authorities. ETU "LETI" is licensed to hold educational activities in the field of higher education and accredited Federal Service for the Supervision of Education and Science and has indefinite accreditation and license.</p> <p>ETU "LETI" is considered as one of the world largest education and research centers in Radio and Electrical Engineering, Electronics and Computer Science. Nowadays Saint Petersburg Electrotechnical University "LETI" is one of the leading centers of higher education and research in Russia.</p>
6.2	Additional Information Sources	<p>Official website of ETU "LETI": etu.ru</p> <p>Official website of the Ministry of Science and Higher Education of the Russian Federation: minobrnauki.gov.ru</p> <p>Official website of the National Accreditation Agency: nica.ru</p>
7. CERTIFICATION OF THE SUPPLEMENT		
This Diploma Supplement is valid with the original diploma 107824 1066541, issued 30/06/2023		
7.1	Date	30/06/2023
7.2	Signature	7.3 Official Stamp/Seal
Rector _____ Dean _____ Secretary _____		
8. INFORMATION ON THE NATIONAL HIGHER EDUCATION SYSTEM		

Higher education system of the Russian Federation is constituted of two parallel branches:

- one-cycle (monoleveled) training system of Diploma Specialist (5 – 7 years for different specialities);
- two-cycle (two leveled) training system: Bachelor (not less than 4 years) and Master (not less than 2 years).

Higher professional education is based on the State Educational Standards determining requirements for structure and content of training.

Postgraduate education includes two levels of scientific degrees: Kandidat Nauk (3 years) is considered equal to Ph.D. and Doktor Nauk is considered as D.Sc.

