

MANAGEMENT THE WRITING OF BACHELOR'S GRADUATE QUALIFICATION WORK IN CONSTRUCTION BASED ON TECHNOLOGY OF END-TO-END COURSE PROJECT

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To resolve the issue of high-quality training of graduates in the field of Construction, in order to perform complex engineering activities, it is required to adopt new educational technologies and organizational forms of training. This article presents the implementation model of Bachelor's Graduate Qualification Work in Construction, as per IDEFO methodology. The model is based on the technology of end-to-end course project work. The article demonstrates positive results of the model implementation in the learning process.

FOREIGN LANGUAGE TEACHING WITHIN "AIRCRAFT ENGINEERING" PROGRAMME

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The article discusses the issue of enhancing the quality of foreign language teaching at engineering university. Within the education programme "Aircraft Engineering", this issue is of particular importance due to the current situation in this economy sector. The article examines the problems of foreign language teaching, describes and postulates the language teaching system developed at Samara University.

STUDENTS' GRAPHICAL CULTURE DEVELOPMENT IN THE UNIVERSITY VIRTUAL LEARNING SPACE

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The article analyzes the problems related to the development of students' graphical culture in modern virtual environment of an engineering university. Graphical culture is defined as a matureness of productive professional competencies shaped within the virtual learning space of a university. They include broad-based graphical knowledge and graphic design thesaurus.

CONTINUOUS MASTERING OF COMPUTER TECHNOLOGIES AS A MANDATORY CONDITION FOR HIGHLY QUALIFIED SPECIALISTS' EDUCATION IN THE SPHERE OF OPTICAL ENGINEERING AND ELECTROOPTIC INSTRUMENT ENGINEERING

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Specialists' training in the sphere of optical engineering and electrooptic instrument engineering can be divided into three stages from the standpoint of using information and computer technologies: 1. Study of general principles of information and computer technologies; 2. Mastering these technologies in design of typed blocks of optic and electrooptic systems; 3. Instruction in computer modelling based on systematic approach to designing electrooptic complexes as a whole.

Professional and Public Accreditation of Educational Programmes (Results)

Over the past 20 years, Association for Engineering Education of Russia (AEER) has been developing the system of professional and public accreditation of engineering and technology programmes in Russia.

AEER is a member of the most authoritative international organizations involved in engineering programme accreditation: International Engineering Alliance, Washington Accord, European Network for Accreditation of Engineering Education (ENAAE). AEER is the only national organization entitled to assign the international certification label (EUR -ACE label) for accredited programmes.

The system of professional and public accreditation of engineering programmes developed and implemented by AEER is now international and accepted in the majority of developed countries.

By December 21, 2017, AEER has accredited 511 educational programmes (first and second cycles) provided by 75 leading universities of Russia, Kazakhstan, Kirgizstan, Tajikistan, and Uzbekistan. The European certification label EUR-ACE has been awarded to 429 programmes. Also, 5 secondary vocational education programmes provided by Russian vocational training colleges have been accredited. The lists of educational programmes accredited by AEER are regularly submitted to Federal Education and Science Supervision Service and reported to the signatories of Washington Accord and ENAAE.

International accreditation of the educational programmes improves the image of Russian education on the global market, and makes national universities more attractive both for Russian and foreign students. It intensifies academic mobility and development of international cooperative education programmes. Graduating from an accredited institution allows young professionals to be recognized by APEC and FEANI engineer registers.

The following Register shows the educational programmes accredited by AEER.

List of Accredited Programmes, Russian Federation (as of 21.12.2017)

	Programme Code	Qualification	Programme Name	Certificate	Accreditation Period
Altai State Technical University named after I.I. Polzunov					
1.	100400	INT	Electrical Supply	AEER	1997-2002
2.	120100	INT	Mechanical Engineering Technology	AEER	1997-2002
3.	120500	INT	Welding Equipment and Technology	AEER	1997-2002
4.	150900	FCD	Technology, Equipment and Automation of Mechanical Engineering Productions	AEER	2003-2008
5.	151900 (15.03.05)	FCD	Design Engineering Solutions for Mechanical Engineering Industries	AEER EUR-ACE®	2015-2020
Bashkir State Agrarian University					
1.	13.03.01	FCD	Energy Supply of Enterprises	AEER EUR-ACE®	2017-2022
2.	23.03.03	FCD	Automobiles and Automobile Industry	AEER EUR-ACE®	2017-2022
Belgorod State National Research University					
1.	210400	FCD	Telecommunications	AEER EUR-ACE®	2012-2017
2.	210406	INT	Communication Networks and Switching Systems	AEER EUR-ACE® WA	2012-2017
3.	210602	INT	Nanomaterials	AEER EUR-ACE® WA	2012-2017
4.	120700	FCD	Land Management and Cadastre	AEER EUR-ACE®	2014-2019
5.	120700	SCD	Cadastre and Land Monitoring	AEER EUR-ACE®	2014-2019
6.	130101	INT	Exploration and Prospecting of Underground Waters and Engineering Geological Survey	AEER EUR-ACE® WA	2014-2019
7.	210700	FCD	Communication Networks and Commutation Systems	AEER EUR-ACE®	2014-2019
8.	150100	SCD	Materials Science and Technology	AEER EUR-ACE®	2015-2020
9.	19.03.04	FCD	Technology of Production and Catering	AEER EUR-ACE®	2016-2021
10.	38.03.05	FCD	Enterprise Architecture	AEER EUR-ACE®	2016-2021
11.	22.03.01	FCD	Materials Science and Technology of new Materials	AEER EUR-ACE®	2016-2021
12.	22.04.01	SCD	Constructional Nanomaterials	AEER EUR-ACE®	2016-2021
Belgorod State Technological University named after V.G. Shukhov					
1.	08.04.01 (270800.68)	SCD	Nanosystems in Building Materials Science	AEER EUR-ACE®	2015-2020
Dagestan State University					
1.	210104	INT	Microelectronics and Solid State Electronics	AEER EUR-ACE® WA	2013-2018
2.	280201	INT	Environmental Protection and Rational Use of National Resources	AEER EUR-ACE® WA	2013-2018
Don State Technical University					
1.	12.03.04	FCD	Engineering in Biomedical Practice	AEER EUR-ACE®	2016-2021
2.	20.03.01	FCD	Safety of Technological Processes and Production	AEER EUR-ACE®	2016-2021
3.	20.03.01	FCD	Environmental Protection	AEER EUR-ACE®	2016-2021
4.	13.03.03	FCD	Hydraulic, Vacuum and Compressor Equipment	AEER EUR-ACE®	2016-2021

	Programme Code	Qualification	Programme Name	Certificate	Accreditation Period
5.	15.03.04	FCD	Automation of Technological Processes and Productions in Machine Building	AEER EUR-ACE®	2017-2022
6.	15.04.02	SCD	Processes and Devices of Food Production	AEER EUR-ACE®	2017-2022
7.	15.03.06	FCD	Mechatronics	AEER EUR-ACE®	2017-2022
8.	15.03.06	FCD	Robots and Robotic Systems	AEER EUR-ACE®	2017-2022
9.	15.04.05	SCD	Technological Support of Quality of Products of Mechanical Engineering	AEER EUR-ACE®	2017-2022
10.	15.04.05	SCD	Technological Design of Machine-Building Production	AEER EUR-ACE®	2017-2022
Gubkin Russian State University of Oil and Gas (National Research University)					
1.	21.03.01	FCD	Construction and Repair of Pipeline Transport Systems	AEER EUR-ACE®	2016-2021
2.	21.03.01	FCD	Operation and Maintenance of Facilities of Transportation and Storage of Oil, Gas and Refined Products	AEER EUR-ACE®	2016-2021
3.	21.03.01	FCD	Development and Service of Gas/Gas Condensate Production Facilities and Underground Storage	AEER EUR-ACE®	2016-2021
4.	21.03.01	FCD	Drilling of Oil and Gas Wells	AEER EUR-ACE®	2016-2021
5.	21.03.01	FCD	Development and Maintenance of Petroleum Production Facilities	AEER EUR-ACE®	2016-2021
National Research University Higher School of Economics					
1.	11.04.04	SCD	Electronic Engineering	AEER EUR-ACE®	2015-2020
2.	11.04.04	SCD	Measurement Technologies of Nanoindustry	AEER EUR-ACE®	2015-2020
3.	09.03.01	FCD	Information Science and Computation Technology	AEER EUR-ACE®	2016-2021
4.	09.04.01	SCD	Computer Systems and Networks	AEER EUR-ACE®	2016-2021
5.	01.03.04	FCD	Applied Mathematics	AEER EUR-ACE®	2016-2021
6.	01.04.04	SCD	Management Systems and Information Processing in Engineering	AEER EUR-ACE®	2016-2021
Immanuel Kant Baltic Federal University					
1.	23.03.01	FCD	Organization of Road Transportation	AEER EUR-ACE®	2016-2019
Irkutsk National Research Technical University					
1.	130100	INT	Aircraft and Helicopter Construction	AEER	2004-2009
2.	250400	INT	Chemical Engineering of Natural Power Supplies and Carbon-base Materials	AEER	2004-2009
3.	140400	SCD	Optimization of Developing Power-supply Systems	AEER EUR-ACE®	2014-2019
4.	140400	SCD	Energy Efficiency, Energy Audit and Energy Department Management	AEER EUR-ACE®	2014-2019
5.	190700	SCD	Logistic Management and Traffic Control	AEER EUR-ACE®	2014-2019
6.	280700	SCD	Ecological Safety	AEER EUR-ACE®	2014-2019
7.	280700	SCD	Waste Management	AEER EUR-ACE®	2014-2019
8.	15.04.01	SCD	Technology, Equipment and Quality System for Welding	AEER EUR-ACE®	2015-2020
9.	20.04.01	SCD	Fire Protection	AEER EUR-ACE®	2015-2020
10.	15.04.02	SCD	Food Engineering	AEER EUR-ACE®	2015-2020
11.	20.04.01	SCD	Population Saving, Occupational, Environmental and Disaster Risk Management	AEER EUR-ACE®	2015-2020
12.	13.04.02	SCD	Intelligent Power Systems	AEER EUR-ACE®	2017-2022
13.	13.04.02	SCD	Renewable energy	AEER EUR-ACE®	2017-2022
14.	07.04.01	SCD	Architecture of the Sustainable Environment	AEER EUR-ACE®	2017-2022

	Programme Code	Qualification	Programme Name	Certificate	Accreditation Period
15.	07.04.04	SCD	Urban Landscape Planning	AEER EUR-ACE®	2017-2022
16.	08.04.01	SCD	Innovative Water Supply and Wastewater Technologies	AEER EUR-ACE®	2017-2022
Ivanovo State Power University					
1.	140404	INT	Nuclear Power Plants and Installations	AEER EUR-ACE® WA	2009-2014
2.	210106	INT	Industrial Electronics	AEER EUR-ACE® WA	2009-2014
Kazan National Research Technical University named after A.N. Tupolev					
1.	150600	FCD	Science and Technology of New Materials	AEER EUR-ACE®	2011-2016
2.	160100	FCD	Aircraft Construction and Rocket Production	AEER EUR-ACE®	2011-2016
3.	230100	FCD	Computer Science	AEER EUR-ACE®	2011-2016
Kazan National Research Technological University					
1.	240100	FCD	Chemical Technology and Biotechnology	AEER	2004-2009
2.	240100	SCD	Chemical Engineering for Innovative Entrepreneurship	AEER EUR-ACE®	2013-2018
3.	28.04.02	SCD	Nanostructured Natural and Synthetic Materials	AEER EUR-ACE®	2015-2020
Kemerovo Institute of Food Science and Technology					
1.	240700	FCD	Food Biotechnology	AEER EUR-ACE®	2013-2018
Krasnoyarsk State Technical University					
1.	200700	INT	Radio Engineering	AEER	1997-2002
2.	220100	INT	Computers, Systems and Networks	AEER	1997-2002
3.	210302	INT	Radio Engineering	AEER	2003-2008
Komsomolsk-on-Amur State Technical University					
1.	140600	FCD	Electrical Engineering, Electromechanics and Electrical Technology	AEER	2005-2010
2.	140601	INT	Electromechanics	AEER	2005-2010
3.	140604	INT	Electrical Drives and Automated Industrial Sets and Engineering Systems	AEER	2005-2010
Kuban State Technological University					
1.	260100	FCD	Technology of Fermentation Manufacture and Winemaking	AEER EUR-ACE®	2014-2019
2.	260100	FCD	Technology of Bread Products	AEER EUR-ACE®	2014-2019
3.	260100	FCD	Technology of Fats, Essential Oils, Perfume and Cosmetic Products	AEER EUR-ACE®	2014-2019
"MATI" – Russian State Technological University					
1.	190300	INT	Aircraft instruments, Measuring and Computing complexes	AEER	1996-2001
2.	110400	INT	Foundry of Ferrous and Non-ferrous Metals	AEER	1996-2001
3.	110500	INT	Metal Science and Thermal Treatment of Metals	AEER	1996-2001
4.	110700	INT	Welding Metallurgy	AEER	1996-2001
Moscow State Mining University					
1.	090400	INT	Mine and Underground Construction	AEER	1996-2001
2.	090500	INT	Open-pit Mining	AEER	1996-2001
3.	130408	INT	Mine and Underground Construction	AEER EUR-ACE® WA	2010-2015

	Programme Code	Qualification	Programme Name	Certificate	Accreditation Period
Moscow State Technological University "Stankin"					
1.	120100	INT	Mechanical Engineering Technology	AEER	1993-1998
2.	120200	INT	Metal-cutting Machines and Tools	AEER	1993-1998
3.	120400	INT	Machines and Metal Forming Technology	AEER	1993-1998
4.	210200	INT	Automation of Technological Processes and Manufacturing	AEER	1993-1998
5.	210300	INT	Robots and Robotic Systems	AEER	1993-1998
6.	220300	INT	Automated Production Systems	AEER	1993-1998
Moscow State University of Applied Biotechnology					
1.	070200	INT	Low Temperature Physics and Technology	AEER	1996-2001
2.	170600	INT	Food Production Machines and Devices	AEER	1996-2001
3.	210200	INT	Automation of Technological Processes and Manufacturing	AEER	1996-2001
4.	250600	INT	Plastic and Elastoplastic Processing Technology	AEER	1996-2001
5.	270900	INT	Meat and Meat Products Technology	AEER	1996-2001
6.	271100	INT	Milk and Dairy Products Technology	AEER	1996-2001
Moscow State Technical University of Radio Engineering, Electronics and Automation					
1.	210302	INT	Radio Engineering	AEER	2004-2009
2.	220402	INT	Robots and Robotic Systems	AEER	2005-2010
3.	200203	INT	Optoelectronic Devices and Systems	AEER	2005-2010
4.	220401	INT	Mechatronics	AEER	2005-2010
5.	210104	INT	Microelectronics and Solid State Electronics	AEER	2005-2010
6.	230105	INT	Computer Technology and Automated Systems Software	AEER	2005-2010
7.	230201	INT	Information Systems and Technologies	AEER	2005-2010
8.	230101	INT	Computers, Systems and Networks	AEER EUR-ACE® WA	2008-2013
9.	210104	INT	Microelectronics and Solid State Electronics	AEER EUR-ACE® WA	2010-2015
10.	200200	FCD	Optical Engineering	AEER EUR-ACE®	2010-2015
11.	210300	FCD	Radio Engineering	AEER EUR-ACE®	2010-2015
12.	211000	SCD	Quality Assurance and Certification of Electronic Equipment	AEER EUR-ACE®	2013-2018
13.	210100	SCD	Measurement and Information Technologies and Systems	AEER EUR-ACE®	2013-2018
National Research University of Electronic Technology (MIET)					
1.	210100	FCD	Electronics and Microelectronics	AEER	2003-2008
2.	230100	FCD	Computer Science	AEER	2003-2008
3.	11.04.04	SCD	Components of Nanoelectronics	AEER EUR-ACE®	2017-2022
4.	11.04.04	SCD	Microelectronics and Solid State Electronics	AEER EUR-ACE®	2017-2022
5.	11.04.04	SCD	Design Automation for Submicron ASIC and System-on-Chip	AEER EUR-ACE®	2017-2022
6.	11.04.04	SCD	Materials and technology of Functional Electronics	AEER EUR-ACE®	2017-2022
National Research University "MPEI"					
1.	140600	FCD	Electrical Engineering, Electromechanics and Electrical Technology	AEER	2005-2010
2.	140602	INT	Electrical and Electronic Machines	AEER EUR-ACE®	2007-2012
3.	140604	INT	Electrical Drives and Automated Industrial Sets and Engineering Systems	AEER EUR-ACE® WA	2007-2012

	Programme Code	Qualification	Programme Name	Certificate	Accreditation Period
4.	140609	INT	Electrical Equipment for Aircraft	AEER EUR-ACE® WA	2007-2012
5.	140611	INT	Insulators, Cables and Capacitors	AEER EUR-ACE® WA	2007-2012
6.	140403	INT	Technical Physics of Thermonuclear Reactors and Plasma Installations	AEER EUR-ACE® WA	2010-2015
National Research Tomsk Polytechnic University					
1.	071600	INT	High Voltage Engineering and Physics	AEER	1996-2001
2.	080200	INT	Geology and Prospecting of Mineral Resources	AEER	1996-2001
3.	180100	INT	Electromechanics	AEER	1996-2001
4.	200400	INT	Industrial Electronics	AEER	1996-2001
5.	210400	INT	Applied Mathematics	AEER	1996-2001
6.	250900	INT	Chemical Engineering of Modern Energetic Materials	AEER	1999-2004
7.	250800	INT	Chemical Engineering of Refractory Non-Metal and Silicate Materials	AEER	2000-2005
8.	070500	INT	Nuclear Reactors and Power Plants	AEER	2000-2005
9.	220100	INT	Computer Science	AEER	2000-2005
10.	100500	INT	Thermal Power Plants	AEER	2000-2005
11.	101300	INT	Boiler and Reactor Engineering	AEER	2000-2005
12.	230100	FCD	Computer Science	AEER	2003-2008
13.	140600	FCD	Electrical Engineering, Electromechanics and Electrical Technology	AEER	2003-2008
14.	140601	INT	Electromechanics	AEER	2004-2009
15.	140604	INT	Electrical Drives and Automated Industrial Sets and Engineering Systems	AEER	2004-2009
16.	230101	INT	Computers, Systems and Networks	AEER	2004-2009
17.	020804	INT	Geocology	AEER	2004-2009
18.	130100	FCD	Geology and Prospecting of Mineral Resources	AEER	2005-2010
19.	200106	INT	Measurement Devices and Technologies	AEER EUR-ACE® WA	2007-2012
20.	200203	INT	Opto-Electronic Equipment and Systems	AEER EUR-ACE® WA	2007-2012
21.	240304	INT	Chemical Engineering of Refractory Non-Metal and Silicate Materials	AEER EUR-ACE® WA	2007-2012
22.	240901	INT	Biotechnology	AEER EUR-ACE®	2008-2011
23.	140200	FCD	Electrical Power Engineering	AEER EUR-ACE®	2008-2013
24.	150917	SCD	High-technology Physics in Mechanical Engineering	AEER EUR-ACE®	2008-2013
25.	230100	FCD	Computer Science	AEER EUR-ACE®	2008-2013
26.	140600	FCD	Electrical Engineering, Electromechanics and Electrical Technology	AEER EUR-ACE®	2008-2013
27.	140200	SCD	High Voltage Engineering and Physics	AEER EUR-ACE®	2010-2015
28.	130100	SCD	Groundwater Resources Formation and Composition	AEER EUR-ACE®	2010-2015
29.	150900	FCD	Technology, Equipment and Automation of Mechanical Engineering Productions	AEER EUR-ACE®	2011-2016
30.	220301	INT	Automation of Technological Processes and Manufacturing (Gas and Oil field)	AEER EUR-ACE® WA	2011-2016
31.	210100	SCD	Physical Electronics	AEER EUR-ACE®	2011-2016

	Programme Code	Qualification	Programme Name	Certificate	Accreditation Period
32.	140200	SCD	Mode Control of Electric Power Systems	AEER EUR-ACE®	2011-2016
33.	140400	SCD	Electrical Drives and Electrical Drive Control Systems	AEER EUR-ACE®	2011-2016
34.	200100	SCD	Stabilization and Navigation Systems	AEER EUR-ACE®	2011-2016
35.	130500	FCD	Petroleum Engineering	AEER EUR-ACE®	2011-2016
36.	130500	SCD	Geologic-geophysical Problems of Oil and Gas Field Development	AEER EUR-ACE®	2011-2016
37.	140801	INT	Electronics and Automated Physical Installations	AEER EUR-ACE® WA	2012-2017
38.	240501	INT	Chemical Technology of Modern Power Engineering Materials	AEER EUR-ACE® WA	2012-2017
39.	140404	INT	Nuclear Power Plants and Installations	AEER EUR-ACE® WA	2012-2017
40.	200100	SCD	Devices and Methods of Quality Control and Diagnostics	AEER EUR-ACE®	2012-2017
41.	200100	FCD	Measurement Devices and Technologies	AEER EUR-ACE®	2012-2017
42.	200100	FCD	Instrumentation Engineering	AEER EUR-ACE®	2012-2017
43.	200100	FCD	Devices and Methods of Quality Control and Diagnostics	AEER EUR-ACE®	2012-2017
44.	200100	SCD	Measurement Devices and Technologies of Nondestructive Testing	AEER EUR-ACE®	2012-2017
45.	240100	FCD	Chemical Engineering of Natural Power Supplies and Carbon-base Materials	AEER EUR-ACE®	2012-2017
46.	240100	FCD	Chemical Technology of Organic Substances	AEER EUR-ACE®	2012-2017
47.	240100	FCD	Chemical Technology of Inorganic Substances	AEER EUR-ACE®	2012-2017
48.	240100	FCD	Polymer Processing Technology	AEER EUR-ACE®	2012-2017
49.	240100	FCD	Technology of Refractory Non-Metal and Silicate Materials	AEER EUR-ACE®	2012-2017
50.	240100	SCD	Chemical Engineering of Refractory Non-Metal and Silicate Materials	AEER EUR-ACE®	2012-2017
51.	150100	SCD	Science and Technology of Nanomaterials and Coatings	AEER EUR-ACE®	2012-2017
52.	200400	FCD	Opto-Electronic Equipment and Systems	AEER EUR-ACE®	2012-2017
53.	022000	FCD	Geocology	AEER EUR-ACE®	2012-2017
54.	201000	FCD	Biotechnical and Medical Devices and Systems	AEER EUR-ACE®	2012-2017
55.	140400	FCD	Electrical Drives and Automation	AEER EUR-ACE®	2014-2019
56.	140400	FCD	Protection Relay and Automation of Power Grids	AEER EUR-ACE®	2014-2019
57.	221400	FCD	Quality Management in Manufacturing and Technological Systems	AEER EUR-ACE®	2014-2019
58.	150100	FCD	Nanostructured Materials	AEER EUR-ACE®	2014-2019
59.	150100	FCD	Materials Science and Technologies in Mechanical Engineering	AEER EUR-ACE®	2014-2019
60.	150100	SCD	Nanostructured Materials Tool Production	AEER EUR-ACE®	2014-2019
61.	150100	SCD	Computer Simulation of Material Production, Processing and Treatment	AEER EUR-ACE®	2014-2019
62.	130101	INT	Petroleum Geology	AEER EUR-ACE® WA	2014-2019
63.	12.04.02	SCD	Lighting Technology and Light Sources	AEER EUR-ACE®	2014-2019

	Programme Code	Qualification	Programme Name	Certificate	Accreditation Period
64.	12.04.02	SCD	Photonic Technologies and Materials	AEER EUR-ACE®	2014-2019
65.	15.04.01	SCD	High-technology Physics in Mechanical Engineering	AEER EUR-ACE®	2014-2019
66.	19.03.01	FCD	Biotechnology	AEER EUR-ACE®	2014-2019
67.	12.04.04	SCD	Medical and Biological Devices, Systems and Complexes	AEER EUR-ACE®	2014-2019
68.	15.03.01	FCD	Automation of Manufacturing Processes and Production in Mechanical Engineering	AEER EUR-ACE®	2014-2019
69.	21.05.03	INT	Geology and Exploration of Minerals	AEER EUR-ACE® WA	2014-2019
70.	21.05.03	INT	Geophysical Methods of Well Logging	AEER EUR-ACE® WA	2014-2019
71.	11.04.04	SCD	Electronics and Nanoelectronics	AEER EUR-ACE®	2015-2020
72.	27.04.01	SCD	Standardization and Metrology	AEER EUR-ACE®	2015-2020
National Research Tomsk State University					
1.	12.04.03	SCD	Appliances and Devices in Nanophotonics	AEER EUR-ACE®	2015-2020
2.	15.04.03	SCD	The Mechanics of Biocomposites, the Production and Modeling of their Structures and Properties	AEER EUR-ACE®	2016-2021
3.	16.04.01	SCD	Macrokinetics of Combustion of High Energy Materials	AEER EUR-ACE®	2016-2021
4.	12.04.02	SCD	Optical and Optoelectronic Devices	AEER EUR-ACE®	2016-2021
5.	01.04.01	SCD	Pure Mathematics	AEER EUR-ACE®	2017-2022
6.	03.04.03	SCD	Radiophysics, Electronics and Information Systems	AEER EUR-ACE®	2017-2022
National Research University "Lobachevsky State University of Nizhni Novgorod"					
1.	010300	FCD	Software Engineering	AEER EUR-ACE®	2014-2019
2.	010300	FCD	Fundamental Computer Science and Information Technologies (in English)	AEER EUR-ACE®	2014-2019
3.	010300	SCD	Software Engineering	AEER EUR-ACE®	2014-2019
National University of Science and Technology "MISIS"					
1.	150101	INT	Metallurgy of Ferrous Metals	AEER	2004-2009
2.	150105	INT	Metal Science and Thermal Treatment of Metals	AEER	2004-2009
3.	150601	INT	Science and Technology of New Materials	AEER	2004-2009
4.	150400	FCD	Metallurgy of Ferrous Metals	AEER EUR-ACE®	2011-2016
5.	150400	FCD	Physical Metallurgy of Non-Ferrous, Rare-Earth and Precious Metals	AEER EUR-ACE®	2011-2016
6.	150400	FCD	Functional Materials and Coatings	AEER EUR-ACE®	2011-2016
7.	150400	FCD	Metal Forming	AEER EUR-ACE®	2011-2016
8.	011200	FCD	Physics of Condensed Matter	AEER EUR-ACE®	2012-2017
9.	150100	FCD	Materials Science and Engineering of Functional Materials for Nanoelectronics	AEER EUR-ACE®	2012-2017
10.	150400	FCD	Metallurgy of Non-ferrous, Rare and Precious Metals	AEER EUR-ACE®	2012-2017
11.	151000	FCD	Metallurgical Machines and Equipment	AEER EUR-ACE®	2012-2017
12.	210100	FCD	Semiconductor Devices for Micro- and Nanoelectronics	AEER EUR-ACE®	2012-2017
13.	210100	FCD	Materials and Technologies of Magnetoelectronics	AEER EUR-ACE®	2012-2017
14.	210100	FCD	Micro- and Nanotechnology Processes	AEER EUR-ACE®	2012-2017

	Programme Code	Qualification	Programme Name	Certificate	Accreditation Period
15.	220700	FCD	Automated Systems in Manufacturing	AEER EUR-ACE®	2012-2017
16.	230100	FCD	Automated Systems	AEER EUR-ACE®	2012-2017
17.	150400	SCD	Metallurgy of Non-Ferrous and Precious Metals	AEER EUR-ACE®	2014-2019
18.	011200	SCD	Physics of Condensed Matter	AEER EUR-ACE®	2014-2019
19.	011200	SCD	Physics of Nanosystems	AEER EUR-ACE®	2014-2019
20.	210100	SCD	Materials and Technologies of Magnetoelectronics	AEER EUR-ACE®	2014-2019
21.	210100	SCD	Micro- and Nanotechnology Processes	AEER EUR-ACE®	2014-2019
North-Caucasus Federal University					
1.	140400	FCD	Electrical Power Systems and Networks	AEER EUR-ACE®	2015-2020
2.	240100	FCD	Process Chemistry of Natural Energy Carriers and Carbon Materials	AEER EUR-ACE®	2015-2020
3.	090900	FCD	Organization and Technology of Information Security	AEER EUR-ACE®	2015-2020
4.	090303	INT	Information Security of Automated Systems	AEER EUR-ACE® WA	2015-2020
5.	131000	SCD	Oil Field Reservoir Management	AEER EUR-ACE®	2015-2020
6.	140400	SCD	Monitoring and Control of Electrical Networks Based on Intelligent Information-Measuring Systems and Technologies	AEER EUR-ACE®	2015-2020
7.	21.05.02	INT	Geology of Oil and Gas	AEER EUR-ACE® WA	2015-2020
8.	21.05.03	INT	Geophysical Methods for Well Exploration	AEER EUR-ACE® WA	2015-2020
9.	23.04.03	SCD	Technical Exploitation of Automobiles	AEER EUR-ACE®	2015-2020
10.	23.03.03	FCD	Automobiles and Vehicle Fleet	AEER EUR-ACE®	2015-2020
11.	09.04.03	SCD	Knowledge Management	AEER EUR-ACE®	2015-2020
12.	10.04.01	SCD	Comprehensive Protection for Computerization Facilities	AEER EUR-ACE®	2015-2020
13.	11.03.02	FCD	Communication network and Switching Systems	AEER EUR-ACE®	2015-2020
14.	11.03.04	FCD	Industrial electronics	AEER EUR-ACE®	2017-2022
15.	11.04.04	SCD	Physical Electronics	AEER EUR-ACE®	2017-2022
16.	09.04.02	SCD	Data Management	AEER EUR-ACE®	2017-2022
17.	10.05.01	INT	Information Security of Objects of Information Based on Computer Systems	AEER EUR-ACE® WA	2017-2022
18.	15.03.05	FCD	Technology of Mechanical Engineering	AEER EUR-ACE®	2017-2022
19.	15.04.02	SCD	Processes and Apparatuses of Food Engineering	AEER EUR-ACE®	2017-2022
20.	21.03.01	FCD	Operation and Maintenance of Oil Production Facilities	AEER EUR-ACE®	2017-2022
21.	20.04.01	SCD	Emergency Protection	AEER EUR-ACE®	2017-2022
22.	22.03.01	FCD	Materials Science and Technology of Nanomaterials and Nanosystems	AEER EUR-ACE®	2017-2022
23.	22.04.01	SCD	Materials Science and Technology of Nanomaterials and Nanosystems	AEER EUR-ACE®	2017-2022

	Programme Code	Qualification	Programme Name	Certificate	Accreditation Period
Institute of Service, Tourism and Design (Branch of North-Caucasus Federal University in Pyatigorsk)					
1.	27.03.04	FCD	Management and Computer Science in Technical Systems	AEER EUR-ACE®	2015-2020
2.	23.03.03	FCD	Automobile Service	AEER EUR-ACE®	2015-2020
Nosov Magnitogorsk State Technical University					
1.	150400	FCD	Forming of Metals and Alloys (Rolling)	AEER EUR-ACE®	2014-2019
2.	150400	SCD	Rolling Production Technology	AEER EUR-ACE®	2014-2019
3.	27.04.01	SCD	Testing and certification	AEER EUR-ACE®	2015-2020
4.	22.04.02	SCD	Hardware Production Technology	AEER EUR-ACE®	2015-2020
5.	11.04.04	SCD	Industrial Electronics and Automation of Electrical Systems	AEER EUR-ACE®	2015-2020
6.	03.04.02	SCD	Solid State Physics	AEER EUR-ACE®	2015-2020
Novosibirsk State Technical University					
1.	150501	INT	Materials Science in Mechanical Engineering	AEER EUR-ACE® WA	2012-2017
2.	16.04.01	SCD	Laser Science and Technology	AEER EUR-ACE®	2015-2020
3.	22.04.01	SCD	Material Science, Technology and Processing of Materials with Specific Properties	AEER EUR-ACE®	2015-2020
4.	28.04.01	SCD	Micro- and Nanosystem Engineering Materials	AEER EUR-ACE®	2015-2020
5.	22.03.01	FCD	Material Science and Technologies of Engineering Materials	AEER EUR-ACE®	2017-2022
6.	13.03.02	FCD	Power Engineering	AEER EUR-ACE®	2017-2022
Ogarev Mordovia State University					
1.	151900	FCD	Mechanical Engineering Technology	AEER EUR-ACE®	2014-2019
2.	210100	FCD	Industrial Electronics	AEER EUR-ACE®	2014-2019
3.	11.04.04	SCD	Electronics and Nanoelectronics	AEER EUR-ACE®	2015-2020
Omsk State Technical University					
1.	28.04.02	SCD	Nanoengineering	AEER EUR-ACE®	2017-2022
Penza State University					
1.	11.04.04	SCD	Electronics and Nanoelectronics	AEER EUR-ACE®	2015-2020
2.	27.04.01	SCD	Standardization and Metrology	AEER EUR-ACE®	2015-2020
Peoples' Friendship University of Russia					
1.	270100	SCD	Structural Theory and Engineering	AEER EUR-ACE®	2013-2018
2.	270100	SCD	River and Underground Hydraulic Engineering Works	AEER EUR-ACE®	2013-2018
3.	270100	SCD	Theory and Practice of Organizational, Technical and Economic Decisions in Building and Construction	AEER EUR-ACE®	2013-2018
4.	141100	SCD	Internal Combustion Engines	AEER EUR-ACE®	2013-2018
5.	141100	SCD	Steam- and Gas Turbine Plants and Engines	AEER EUR-ACE®	2013-2018
6.	151900	SCD	Automated Engineering Technology	AEER EUR-ACE®	2015-2020
7.	220400	SCD	Intellectualization and Optimization of Control Processes	AEER EUR-ACE®	2015-2020

	Programme Code	Qualification	Programme Name	Certificate	Accreditation Period
Perm National Research Polytechnic University					
1.	150700	SCD	Beam Technologies in Welding	AEER EUR-ACE®	2014-2019
2.	270800	SCD	Underground and Urban Construction	AEER EUR-ACE®	2014-2019
3.	27.04.04 (220400.68)	SCD	Distributed Computing Information and Control Systems	AEER EUR-ACE®	2015-2020
Petrozavodsk State University					
1.	210100	SCD	Electronics and Nanoelectronics	AEER EUR-ACE®	2015-2020
Samara National Research University (before April 6, 2016 – Samara State Aerospace University)					
1.	160301	INT	Aircraft Engines and Power Plants	AEER EUR-ACE® WA	2008-2013
2.	160802	INT	Spacecraft and Rocket Boosters	AEER EUR-ACE® WA	2008-2013
3.	24.05.01	INT	Design, Production and Maintenance of Rockets and Space Complexes	AEER EUR-ACE® WA	2015-2020
4.	24.05.07	INT	Airplane and Helicopter Designing	AEER EUR-ACE® WA	2015-2020
5.	12.04.04	SCD	Biotechnical Systems and Technologies	AEER EUR-ACE®	2015-2020
6.	01.04.02	SCD	Supercomputing, Information Technologies and Geoinformatics	AEER EUR-ACE®	2015-2020
7.	11.04.01	SCD	GNSS receivers. Hardware and software	AEER EUR-ACE®	2017-2022
8.	22.04.02	SCD	Innovative Technologies for Obtaining and Processing Materials with Specified Properties	AEER EUR-ACE®	2017-2022
9.	24.04.01	SCD	Design and Construction of Space Monitoring and Transportation Systems	AEER EUR-ACE®	2017-2022
10.	24.05.02	INT	Innovative Technologies of Rocket Engine Construction	AEER EUR-ACE® WA	2017-2022
11.	25.03.01	FCD	Technical Maintenance of Aircrafts and Engines	AEER EUR-ACE®	2017-2022
Saint Petersburg Electrotechnical University "LETI"					
1.	220200	FCD	Automation and Control	AEER	2003-2008
2.	210100	FCD	Electronics and Microelectronics	AEER	2003-2008
3.	230100	FCD	Computer Science	AEER	2003-2008
4.	200300	FCD	Biomedical Engineering	AEER	2003-2008
5.	210400	FCD	Radio Electronic Systems	AEER EUR-ACE®	2014-2019
6.	210400	FCD	Radiotechnical Devices for Signal Transmission, Reception and Processing	AEER EUR-ACE®	2014-2019
7.	210400	FCD	Audiovision Equipment	AEER EUR-ACE®	2014-2019
8.	210100	FCD	Electronic Devices	AEER EUR-ACE®	2014-2019
9.	200100	FCD	Information and Measurement Technique and Technology	AEER EUR-ACE®	2014-2019
10.	200100	FCD	Laser Measurement and Navigation Systems	AEER EUR-ACE®	2014-2019
11.	200100	FCD	Devices and Methods of Monitoring of Quality and Diagnostics	AEER EUR-ACE®	2014-2019
12.	231000	SCD	Development of Distributed Software Systems	AEER EUR-ACE®	2014-2019
13.	010400	SCD	Mathematical Provisions and Software of Computers	AEER EUR-ACE®	2014-2019
14.	220451	SCD	Automation and Control of Industrial Complexes and Mobile Objects	AEER EUR-ACE®	2014-2019

	Programme Code	Qualification	Programme Name	Certificate	Accreditation Period
15.	220452	SCD	Automated Control Systems for Sea Vehicles	AEER EUR-ACE®	2014-2019
16.	220453	SCD	Shipborne Information and Control Systems	AEER EUR-ACE®	2014-2019
17.	140452	SCD	Automated Electromechanical Complexes and Systems	AEER EUR-ACE®	2014-2019
18.	230161	SCD	Microsystem Computer Technologies: Systems on Chip	AEER EUR-ACE®	2014-2019
19.	230162	SCD	Distributed Intelligent Systems and Technology	AEER EUR-ACE®	2014-2019
20.	230151	SCD	Computer Technologies in Engineering	AEER EUR-ACE®	2014-2019
21.	201051	SCD	Biotechnical Systems and Technologies of Rehabilitation and Prosthetics	AEER EUR-ACE®	2014-2019
22.	201053	SCD	Information Systems and Technologies in Patient Care Institutions	AEER EUR-ACE®	2014-2019
23.	210153	SCD	Electronic Devices and Equipment	AEER EUR-ACE®	2014-2019
24.	210176	SCD	Physical Electronics	AEER EUR-ACE®	2014-2019
25.	210152	SCD	Microwave and Telecommunication Electronics	AEER EUR-ACE®	2014-2019
26.	211006	FCD	Information Technologies for Radio Electronic Engineering	AEER EUR-ACE®	2014-2019
27.	211008	FCD	Information Technologies in Microwave Electronic Engineering	AEER EUR-ACE®	2014-2019
28.	11.04.04	SCD	Nanoelectronics and photonics	AEER EUR-ACE®	2015-2020
29.	11.04.01	SCD	Radiolocation of Objects and Environments	AEER EUR-ACE®	2015-2020
30.	11.04.01	SCD	Microwave, Optical, and Digital Telecommunications Hardware	AEER EUR-ACE®	2015-2020
31.	11.04.01	SCD	Infocommunication Technology in Space Patterns Analysis and Processing	AEER EUR-ACE®	2015-2020
32.	13.04.02	SCD	Electrotechnologies	AEER EUR-ACE®	2015-2020
33.	12.04.01	SCD	Devices and Methods of Quality Control and Diagnostics	AEER EUR-ACE®	2015-2020
34.	12.04.01	SCD	Lazer Measurement Technologies	AEER EUR-ACE®	2015-2020
35.	12.04.01	SCD	Adaptive Measuring Systems	AEER EUR-ACE®	2015-2020
36.	27.04.02	SCD	Integrated Quality Management Systems	AEER EUR-ACE®	2015-2020
37.	11.04.04	SCD	Heterostructure Solar Photovoltaics	AEER EUR-ACE®	2015-2020
38.	28.04.01	SCD	Nano- and Microsystem Engineering	AEER EUR-ACE®	2015-2020
39.	09.04.02	SCD	Distributed Computing Systems of Real-Time	AEER EUR-ACE®	2015-2020
40.	27.04.04	SCD	Control and Information Technologies in Technical Systems	AEER EUR-ACE®	2015-2020
41.	11.04.01	SCD	Radionavigation Systems	AEER EUR-ACE®	2017-2022
42.	11.04.03	SCD	Information Technologies of Designing of Radio-Electronic Means	AEER EUR-ACE®	2017-2022
43.	11.04.03	SCD	Microwave Engineering	AEER EUR-ACE®	2017-2022
44.	11.04.04	SCD	Quantum and Optical Electronics	AEER EUR-ACE®	2017-2022
45.	28.04.01	SCD	Nanotechnology and Diagnostics	AEER EUR-ACE®	2017-2022
46.	09.04.01	SCD	Software of Information and Computing Systems	AEER EUR-ACE®	2017-2022
47.	09.04.01	SCD	Computer-Aided Design in Electronics and Engineering	AEER EUR-ACE®	2017-2022
48.	12.04.01	SCD	Acoustic Devices and Systems	AEER EUR-ACE®	2017-2022

	Programme Code	Qualification	Programme Name	Certificate	Accreditation Period
49.	12.04.01	SCD	Integrated Navigation Technologies	AEER EUR-ACE®	2017-2022
50.	12.04.01	SCD	Local Measuring and Computing Systems	AEER EUR-ACE®	2017-2022
Saint Petersburg National Research University of Information Technologies, Mechanics and Optics					
1.	27.04.03	SCD	Intelligent Control Systems of Technological Processes	AEER EUR-ACE®	2014-2019
2.	09.04.01	SCD	Embedded Computer Systems Design	AEER EUR-ACE®	2014-2019
3.	09.04.02	SCD	Automation and Control in Educational Systems	AEER EUR-ACE®	2014-2019
4.	09.04.03	SCD	Overall Automation of Enterprise	AEER EUR-ACE®	2014-2019
5.	24.04.01	SCD	Quality Control of Products of Space Rocket Complexes	AEER EUR-ACE®	2014-2019
6.	12.04.02	SCD	Applied Optics	AEER EUR-ACE®	2014-2019
7.	16.04.01	SCD	Integrated Analyzer Systems and Information Technologies of Fuel and Energy Complex Enterprises	AEER EUR-ACE®	2014-2019
8.	19.04.03	SCD	Biotechnology of Therapeutic, Special and Prophylactic Nutrition Products	AEER EUR-ACE®	2014-2019
9.	12.04.01	SCD	Methods of Diagnosis and Analysis in Bionanotechnology	AEER EUR-ACE®	2015-2020
10.	12.04.01	SCD	Devices for Research and Modification of Materials at the Micro- and Nanoscale Level	AEER EUR-ACE®	2015-2020
11.	12.04.03	SCD	Metamaterials	AEER EUR-ACE®	2015-2020
12.	12.04.03	SCD	Nanomaterials and Nanotechnologies for Photonics and Optoinformatics	AEER EUR-ACE®	2015-2020
13.	12.04.03	SCD	Optics of Nanostructures	AEER EUR-ACE®	2015-2020
14.	11.04.02	SCD	Nanotechnologies in Fiber Optics	AEER EUR-ACE®	2017-2022
15.	12.04.02	SCD	LED Technology	AEER EUR-ACE®	2017-2022
16.	01.04.02	SCD	Supercomputing Technologies in Interdisciplinary Research	AEER EUR-ACE®	2017-2022
17.	15.04.06	SCD	Intelligent Technologies in Robotics	AEER EUR-ACE®	2017-2022
18.	16.04.03	SCD	Industrial Refrigeration Systems and Heat Pumps	AEER EUR-ACE®	2017-2022
Saint-Petersburg State Polytechnic University					
1.	010800	SCD	Mechanics of Deformable Solid Body	AEER EUR-ACE®	2014-2019
2.	210700	SCD	Protected Telecommunication Systems	AEER EUR-ACE®	2014-2019
3.	210100	SCD	Micro- and Nanoelectronics	AEER EUR-ACE®	2014-2019
4.	223200	SCD	Physics of Low-dimensional Structures	AEER EUR-ACE®	2014-2019
5.	151900	SCD	Machine-building Technology	AEER EUR-ACE®	2014-2019
6.	140100	SCD	Technology of Production of Electric Power and Heat	AEER EUR-ACE®	2014-2019
7.	220100	SCD	System Analysis and Control	AEER EUR-ACE®	2014-2019
8.	270800	SCD	Engineering Systems of Buildings and Constructions	AEER EUR-ACE®	2014-2019
9.	270800	SCD	Construction Management of Investment Projects	AEER EUR-ACE®	2014-2019
Siberian State Aerospace University					
1.	220100	FCD	System Analysis and Control	AEER EUR-ACE®	2011-2016
2.	230100	FCD	Computer Science and Computer Facilities	AEER EUR-ACE®	2011-2016

	Programme Code	Qualification	Programme Name	Certificate	Accreditation Period
3.	11.04.04	SCD	Electronic Devices and Facilities	AEER EUR-ACE®	2015-2020
4.	11.04.02	SCD	Telecommunication Networks and Communication Devices	AEER EUR-ACE®	2015-2020
5.	11.04.02	SCD	Satellite Communication Systems	AEER EUR-ACE®	2015-2020
Siberian Transport University					
1.	23.05.06	INT	Bridges	AEER EUR-ACE® WA	2017-2022
Siberian Federal University					
1.	210200	SCD	Microwave Equipment and Antennas	AEER EUR-ACE®	2010-2015
2.	230100	SCD	High-Performance Computing Systems	AEER EUR-ACE®	2010-2015
3.	09.03.02	FCD	Information Systems and Technologies	AEER EUR-ACE®	2015-2020
4.	09.03.04	FCD	Software Engineering	AEER EUR-ACE®	2015-2020
5.	15.03.04	FCD	Automation of Technological Processes and Productions	AEER EUR-ACE®	2015-2020
Siberian Federal University Sayano-Shushensky Branch					
1.	08.03.01	FCD	Hydrotechnical Construction	AEER EUR-ACE®	2016-2021
Southwest State University					
1.	28.04.01	SCD	Nanotechnology	AEER EUR-ACE®	2015-2020
Stary Oskol Technological Institute named after A.A. Ugarov (branch of National University of Science and Technology "MISIS")					
1.	150400	FCD	Metallurgy of Ferrous Metals	AEER EUR-ACE®	2012-2015
Taganrog Institute of Technology of Southern Federal University					
1.	210100	FCD	Electronics and Microelectronics	AEER	2003-2008
2.	230100	FCD	Computer Science	AEER	2003-2008
3.	230100	FCD	Computer Science	AEER EUR-ACE®	2010-2015
4.	220200	FCD	Automation and Control	AEER EUR-ACE®	2010-2015
5.	210100	FCD	Electronics and Microelectronics	AEER EUR-ACE®	2012-2017
6.	200100	FCD	Equipment Engineering	AEER EUR-ACE®	2012-2017
Tambov State Technical University					
1.	210201	INT	Design and Technology of Radioelectronic Devices	AEER	2006-2011
2.	140211	INT	Electrical Supply	AEER	2006-2011
3.	28.03.02	FCD	Engineering Nanotechnologies in Machine Building	AEER EUR-ACE®	2017-2022
Togliatty State University					
1.	140211	INT	Electrical Supply	AEER EUR-ACE® WA	2009-2014
2.	150202	INT	Industrial Welding Technology and Equipment	AEER EUR-ACE® WA	2009-2014
3.	151002	INT	Mechanical Engineering Technology	AEER EUR-ACE® WA	2009-2014
4.	22.04.01	SCD	Welding and Soldering of Advanced Metal and Non-Metal Inorganic Materials	AEER EUR-ACE®	2012-2014

	Programme Code	Qualification	Programme Name	Certificate	Accreditation Period
5.	22.04.01	SCD	Material Science and Technologies of Nanomaterials and Coatings	AEER EUR-ACE®	2016-2021
6.	20.04.01	SCD	Productional, Industrial and Environmental Safety Management Systems	AEER EUR-ACE®	2016-2021
7.	15.04.05	SCD	Computer-Aided Engineering Technology	AEER EUR-ACE®	2016-2021
8.	13.04.02	SCD	Operating Modes of Electric Power Supplies, Substations, Circuits and Systems	AEER EUR-ACE®	2016-2021
Tomsk State University of Architecture and Building					
1.	08.03.01	FCD	Industrial and Civil Engineering	AEER EUR-ACE®	2017-2022
2.	08.04.01	SCD	Modern Technologies in Design and Civil Engineering	AEER EUR-ACE®	2017-2022
Tomsk State University of Control Systems and Radio Electronics					
1.	210100	FCD	Industrial electronics	AEER EUR-ACE®	2013-2018
2.	222000	FCD	Innovation Management in Electronic Engineering	AEER EUR-ACE®	2013-2018
3.	11.04.04	SCD	Solid-State Electronics	AEER EUR-ACE®	2016-2021
4.	11.05.01	INT	Radio-electronic Systems of Space Complexes	AEER	2017-2022
Transbaikal State University					
1.	21.05.04 (130400.65)	INT	Open Mining	AEER EUR-ACE® WA	2015-2020
2.	08.05.01 (271101.65)	INT	Construction of High-Rise and Long-Span Buildings and Structures	AEER EUR-ACE® WA	2015-2020
Trekhgornyy Technological Institute					
1.	230101	INT	Computers, Systems and Networks	AEER	2004-2007
Tyumen State Oil and Gas University					
1.	130501	INT	Design, Construction and Operation of Gas and Oil Pipelines and Storage Facilities	AEER	2006-2011
2.	130503	INT	Development and Exploitation of Oil and Gas Fields	AEER	2006-2011
3.	130504	INT	Oil and Gas Drilling	AEER	2006-2011
4.	190601	INT	Automobiles and Transportation Facilities	AEER WA	2007-2012
5.	190603	INT	Transport and technological machinery and equipment service (oil and gas production)	AEER WA	2007-2012
6.	190701	INT	Transportation organization and transport management (automobile transport)	AEER WA	2007-2012
7.	130602	INT	Oil and Gas Fields Machinery and Equipment	AEER EUR-ACE® WA	2008-2013
8.	150202	INT	Industrial Welding Technology and Equipment	AEER EUR-ACE®	2008-2011
9.	190205	INT	Lifting, Transportation Means and Road Machines	AEER EUR-ACE® WA	2008-2013
10.	240401	INT	Chemical Technology of Organic Substances	AEER EUR-ACE® WA	2009-2014
11.	240403	INT	Chemical Engineering of Natural Power Supplies and Carbon-base Materials	AEER EUR-ACE® WA	2009-2014
12.	240801	INT	Machines and Apparatus of Chemical Production	AEER EUR-ACE® WA	2009-2014
13.	280201	INT	Environmental Control and Rational Use of Natural Resources	AEER EUR-ACE® WA	2010-2015

	Programme Code	Qualification	Programme Name	Certificate	Accreditation Period
14.	280102	INT	Safety of Technological Processes and Productions	AEER EUR-ACE® WA	2010-2015
15.	120302	INT	Land Cadastre	AEER EUR-ACE® WA	2010-2015
Tyumen State University of Architecture and Civil Engineering					
1.	270800	SCD	Water Supply and Sanitation	AEER EUR-ACE®	2013-2018
2.	270800	SCD	Industrial and Civil Construction	AEER EUR-ACE®	2013-2018
3.	280700	SCD	Safety of Technological Processes and Production	AEER EUR-ACE®	2013-2018
Ural State Forest Engineering University					
1.	270205	INT	Automobile Roads and Aerodromes	AEER	2006-2011
Ural Federal University named after the first President of Russia B.N. Yeltsin					
1.	240302	INT	Technology of Electrochemical Productions	AEER EUR-ACE® WA	2008-2013 2012-2013
2.	210100	SCD	Electronics and Nanoelectronics	AEER EUR-ACE®	2015-2020
3.	221700	SCD	Standardization and Metrology	AEER EUR-ACE®	2015-2020
4.	22.04.01	SCD	Material Science, Technology Acquisition and Processing of Metal Materials with Special Properties	AEER EUR-ACE®	2015-2020
5.	22.04.01	SCD	Materials Science, Production Technology and Processing of Non-Ferrous Alloys	AEER EUR-ACE®	2015-2020
6.	22.04.01	SCD	Material Science and Materials Technology in the Nuclear Energy Industry	AEER EUR-ACE®	2015-2020
7.	28.04.01	SCD	Materials of Micro- and Nanosystem Techniques	AEER EUR-ACE®	2017-2022
8.	08.04.01	SCD	Production of Construction Materials and Products	AEER EUR-ACE®	2017-2022
Ufa State Aviation Technical University					
1.	280200	FCD	Environment Protection	AEER	2005-2010
2.	230100	FCD	Computer Science	AEER	2005-2010
3.	150501	INT	Material Science in Mechanical Engineering	AEER	2005-2010
4.	280200	SCD	Environment Protection	AEER EUR-ACE®	2008-2013
5.	28.04.02	SCD	Nanoengineering is the Machinery	AEER EUR-ACE®	2017-2022
6.	22.04.01	SCD	Material Science and Technology of new Materials	AEER EUR-ACE®	2017-2022
7.	11.04.04	SCD	Industrial Electronics	AEER EUR-ACE®	2017-2022
Ufa State Petroleum Technological University					
1.	130504	INT	Oil and Gas Drilling	AEER EUR-ACE® WA	2007-2012
2.	130603	INT	Oil and Gas Processing Equipment	AEER EUR-ACE® WA	2007-2012
3.	150400	FCD	Processing Machinery and Equipment	AEER EUR-ACE®	2007-2012
4.	240100	FCD	Chemical Engineering and Biotechnology	AEER EUR-ACE®	2008-2013
5.	240403	INT	Chemical Engineering of Natural Power Supplies and Carbon-base Materials	AEER EUR-ACE® WA	2008-2013
6.	130602	INT	Oil and Gas Fields Machinery and Equipment	AEER EUR-ACE® WA	2008-2013

	Programme Code	Qualification	Programme Name	Certificate	Accreditation Period
7.	130501	INT	Design, Construction and Operation of Gas and Oil Pipelines and Storage Facilities	AEER EUR-ACE® WA	2009-2014
8.	551830	SCD	Equipment Design Theory for Oil and Gas Processing, Petrochemical and Chemical Production	AEER EUR-ACE®	2010-2015
9.	551831	SCD	Technological Systems and Equipment Reliability	AEER EUR-ACE®	2010-2015
10.	550809	SCD	Chemical Engineering of Fuel and Gas	AEER EUR-ACE®	2010-2015
11.	270100	FCD	Building Construction	AEER EUR-ACE®	2011-2016
12.	550109	SCD	Building Construction	AEER EUR-ACE®	2011-2016
13.	131000	FCD	Petroleum Engineering	AEER EUR-ACE®	2013-2018
14.	151000	FCD	Production Machines and Equipment	AEER EUR-ACE®	2013-2018
15.	241000	FCD	Environmental Protection and Rational Use of National Resources	AEER EUR-ACE®	2015-2020
16.	240100	FCD	Process Chemistry of Natural Energy Carriers and Carbon Materials	AEER EUR-ACE®	2015-2020
17.	140400	FCD	Electrical Equipment and Electrical Facilities of Companies, Organizations and Institutions	AEER EUR-ACE®	2015-2020
18.	18.03.01	FCD	Chemical Technology of Natural Energy Carriers and Carbon Materials	AEER EUR-ACE®	2015-2020
19.	18.04.01	SCD	Chemistry and Technology of Basic Organic and Petrochemical Synthesis Products	AEER EUR-ACE®	2015-2020
20.	19.04.01	SCD	Industrial Biotechnology and Bioengineering	AEER EUR-ACE®	2015-2020
Vladimir State University named after Alexander and Nikolay Stoletovs					
1.	150900	FCD	Technology, Equipment and Automation of Mechanical Engineering Productions	AEER EUR-ACE®	2012-2017
2.	230100	FCD	Computer Science	AEER EUR-ACE®	2012-2017
3.	200400	SCD	Laser Devices and Systems	AEER EUR-ACE®	2015-2020
4.	12.04.05	SCD	Solid-State and Semiconductor Laser Systems	AEER EUR-ACE®	2016-2021
Volga State University of Technology					
1.	15.03.01 (150700)	FCD	Machine Building	AEER EUR-ACE®	2015-2020
2.	11.03.02 (210700)	FCD	Information and Communication Technologies and Telecommunication Systems	AEER EUR-ACE®	2015-2020
Voronezh State University					
1.	03.03.02	FCD	Solid State Physics	AEER EUR-ACE®	2017-2020
2.	03.04.02	SCD	Physics of Nanosystems	AEER EUR-ACE®	2017-2020
3.	11.03.04	FCD	Nanotechnology in Electronics	AEER EUR-ACE®	2017-2020
4.	11.04.04	SCD	Nanotechnology in Electronics	AEER EUR-ACE®	2017-2020
5.	11.03.04	FCD	Integrated Electronics and Nanoelectronics	AEER EUR-ACE®	2017-2020
6.	11.04.04	SCD	Integrated Electronics and Nanoelectronics	AEER EUR-ACE®	2017-2020

List of Accredited Programmes, Republic of Kazakhstan (as of 01.06.2017)

	Programme Code	Qualification	Programme Name	Certificate	Accreditation Period
D. Serikbayev East Kazakhstan State Technical University					
1.	050703	FCD	Information Systems	AEER EUR-ACE®	2011-2016
2.	050713	FCD	Transport, Transport Facilities and Technology	AEER EUR-ACE®	2011-2016
L.N. Gumilyov Eurasian National University					
1.	050702	FCD	Automation and Control	AEER EUR-ACE®	2011-2016
2.	050732	FCD	Standardization, Metrology and Certification	AEER EUR-ACE®	2011-2016
3.	050901	FCD	Organization of Transportation, Traffic and Operation	AEER EUR-ACE®	2011-2016
4.	6N0702	SCD	Automation and Control	AEER EUR-ACE®	2011-2016
5.	6N0732	SCD	Standardization, Metrology and Certification	AEER EUR-ACE®	2011-2016
6.	6N0901	SCD	Organization of Transportation, Traffic and Operation	AEER EUR-ACE®	2011-2016
Innovative University of Eurasia					
1.	050701	FCD	Biotechnology	AEER EUR-ACE®	2010-2015
2.	050718	FCD	Electrical Power Engineering	AEER EUR-ACE®	2010-2015
Kazakh National Technical University named after K.I. Satpaev					
1.	050704	FCD	Computer Science and Software	AEER EUR-ACE®	2010-2015
2.	050711	FCD	Geodesy and Cartography	AEER EUR-ACE®	2010-2015
3.	050712	FCD	Mechanical Engineering	AEER EUR-ACE®	2010-2015
4.	050718	FCD	Electrical Power Engineering	AEER EUR-ACE®	2010-2015
5.	050723	FCD	Technical Physics	AEER EUR-ACE®	2010-2013
6.	050713	FCD	Transport, Transport Facilities and Technology	AEER EUR-ACE®	2011-2016
7.	050716	FCD	Instrumentation Engineering	AEER EUR-ACE®	2011-2016
8.	050719	FCD	Radio Engineering, Electronics and Telecommunications	AEER EUR-ACE®	2011-2016
9.	050720	FCD	Chemical Technology of Inorganic Substances	AEER EUR-ACE®	2011-2016
10.	050721	FCD	Chemical Technology of Organic Substances	AEER EUR-ACE®	2011-2016
11.	050722	FCD	Printing	AEER EUR-ACE®	2011-2016
12.	050724	FCD	Processing Machinery and Equipment	AEER EUR-ACE®	2011-2016
13.	050729	FCD	Construction	AEER EUR-ACE®	2011-2016
14.	050731	FCD	Life Safety and Environmental Protection	AEER EUR-ACE®	2011-2016
15.	050732	FCD	Standardization, Metrology and Certification	AEER EUR-ACE®	2011-2016
Karaganda State Technical University					
1.	050702	FCD	Automation and Control	AEER EUR-ACE®	2010-2015
2.	050707	FCD	Mining Engineering	AEER EUR-ACE®	2010-2015
3.	050709	FCD	Metallurgy	AEER EUR-ACE®	2010-2015

	Programme Code	Qualification	Programme Name	Certificate	Accreditation Period
4.	050712	FCD	Mechanical Engineering	AEER EUR-ACE®	2010-2015
5.	050713	FCD	Transport, Transport Facilities and Technology	AEER EUR-ACE®	2010-2015
Kostanay Engineering and Pedagogical University					
1.	050713	FCD	Transport, Transport Equipment and Technology	AEER EUR-ACE®	2011-2016
2.	050732	FCD	Standardization, Metrology and Certification	AEER EUR-ACE®	2011-2016
Semey State University named after Shakarim					
1.	050727	FCD	Food Technology	AEER EUR-ACE®	2010-2015
2.	050724	FCD	Processing Machinery and Equipment	AEER EUR-ACE®	2010-2015

List of Accredited Programmes, Kyrgyzstan (as of 21.12.2017)

	Programme Code	Qualification	Programme Name	Certificate	Accreditation Period
Kyrgyz State Technical University named after I. Razzakov					
1.	690300	FCD	Communication Networks and Switching Systems	AEER EUR-ACE®	2015-2020
Kyrgyz State University of Construction, Transport and Architecture named after N. Isanov					
1.	750500	FCD	Industrial and Civil Engineering	AEER EUR-ACE®	2015-2020

List of Accredited Programmes, Tajikistan (as of 21.12.2017)

	Programme Code	Qualification	Programme Name	Certificate	Accreditation Period
Tajik Technical University named after Academician M.S. Osimi					
1.	700201	FCD	Design of Buildings and Constructions	AEER EUR-ACE®	2015-2020
2.	430101	SCD	Electrical Stations	AEER EUR-ACE®	2015-2020

List of Accredited Programmes, Uzbekistan (as of 21.12.2017)

	Programme Code	Qualification	Programme Name	Certificate	Accreditation Period
Tashkent State Technical University named after Abu Raykhan Beruniy					
1.	5310800	FCD	Electronics and Instrumentation	AEER EUR-ACE®	2015-2020

List of Accredited Secondary Professional Education Programmes
(as of 21.12.2017)

	Programme Code	Qualification	Programme Name	Certificate	Accreditation Period
Staroskolsky Technology Institute named after A.A. Ugarov (branch) National University of Science and Technology "MISIS" (MISIS)					
1.	13.02.11	T	Technical operation and maintenance of electrical and electromechanical equipment (by industry)	AEER	2016-2021
2.	22.02.01	T	Metallurgy of ferrous metals	AEER	2016-2021
Tomsk Polytechnic College					
1.	131003	T	Oil and Gas Drilling	AEER	2014-2019
Tomsk Industrial College					
1.	140448	T	Technical Operation and Maintenance of Electrical and Electromechanical Equipment	AEER	2014-2019
Tomsk College of Information Technologies					
1.	230115	T	Computer Systems Programming	AEER	2014-2019

AEER re-authorization to award the «EUR-ACE® Label»

Meeting of the Administrative Council of ENAEE (European Network for Accreditation of Engineering Education) was held in Istanbul on June 23, 2015. During this meeting the Association of Engineering Education of Russia was authorized to award European quality label «EUR-ACE Bachelor Label» to accredited engineering programmes at first cycle level (bachelor) and «EUR-ACE Master Label» to accredited engineering programmes at second cycle level (diploma specialist, master) until **31st of December** (<http://www.enaee.eu/wp-content/uploads/2012/01/overview-WEB-of-all-authorizations-granted4.pdf>)

Following 13 national agencies are authorised to award the EUR-ACE® label to their accredited programmes:

1. **GERMANY** – ASIIN – Fachakkreditierungsagentur für Studiengänge der Ingenieurwissenschaften, der Informatik, der Naturwissenschaften, und der Mathematik e.V. – www.asiin.de
2. **FRANCE** – CTI – Commission des Titres d'Ingénieur – www.cti-commission.fr
3. **UK** – Engineering Council – www.engc.org.uk
4. **IRELAND** – Engineers Ireland – www.engineersireland.ie
5. **PORTUGAL** – Ordem dos Engenheiros – www.ordemengenheiros.pt
6. **RUSSIA** – AEER – Association for Engineering Education of Russia – www.aeer.ru
7. **TURKEY** – MÜDEK – Association for Evaluation and Accreditation of Engineering Programmes – www.mudek.org.tr
8. **ROMANIA** – ARACIS – The Romanian Agency for Quality Assurance in Higher Education – www.aracis.ro
9. **ITALY** – QUACING – Agenzia per la Certificazione di Qualità e l'Accreditamento EUR-ACE dei Corsi di Studio in Ingegneria – www.quacing.it
10. **POLAND** – KAUT – Komisja Akredytacyjna Uczelni Technicznych – www.kaut.agh.edu.pl
11. **SWITZERLAND** – AAQ - Schweizerische Agentur für Akkreditierung und Qualitätssicherung – www.aaq.ch
12. **SPAIN** – ANECA – National Agency for Quality Assessment and Accreditation of Spain – www.aneca.es (in conjunction with IIE – Instituto de la Ingeniería de España – www.iies.es)
13. **FINLAND** – FINEEC – Korkeakoulujen arviointineuvosto KKA – <http://karvi.fi/en/>