

List of educational programs provided in English in academic year 2014/2015

Name of program	Credits	Hours
1. MASTER PROGRAMS		
16.04.03 Cryogenic Equipment and Technology	120	4320
09.04.01 Computer Technology and Control Systems	120	4320
02.04.01 Nonlinear Dynamic Systems and Control Processes	120	4320
27.04.05 Energy Management	120	4320
27.04.05 Integrated Logistic Support	120	4320
27.04.05 Integrated Logistic Support in Aerospace Industry	120	4320
27.04.05 International Business and Finance (EMB-5 in cooperation with De Montfort University, the UK)	120	4320
27.04.07 Organizational and Economic Business Projection	120	4320
2. MASTER OF BUSINESS ADMINISTRATION		
Analyst, Financial Manager	14	502
Financial Director	14	502
3. DISCIPLINES		
Adaptive and Robust Control	3	108
Algebraic Systems	4	144
NET Architecture and C#	2	72
Computer Architecture	4	144
Life Safety	2	72
Business Analysis	3	108
Business Informatics	3	108
Introduction to Web-Design	2	72
Introduction to XML Technologies	2	72
Introduction to Java	2	72
Water Conditioning and Purification	5	180
Higher Mathematics	1	36
Computational Gas Dynamics and Heat-and-Mass Transfer	7	236
Design Marketing	4	144
Differential Geometry	3	108
Differential Geometry Methods for Analysis of Nonlinear Systems	3	108
Protection in Emergency Situations	6	204
Environmental Protection	2	72
Intellectual Systems	1,5	54
Artificial Neural Networks	2	72
Combinatorics	4	144
Computer Methods for Analysis and Synthesis of Dynamic Systems	3	108
Computer Methods of Mathematical Modeling	6	216
Finite Automata	3	108
Cryogenic Transport Systems	4	134
Cryptographic Methods for Information Security (Symmetric Cryptosystems, Private Key Cryptosystems)	5	180
Public Key Cryptosystems	2	72
Mathematical Methods of Nonlinear Control	6	216
Mathematical Models of Cryptography	1,2	44
Mathematical Modeling	5	136
International Technology Transfer	3	108
Optimization Methods and Decision Making in the Context of Information Conflicts	1,3	48
Similarity Methods and Mathematical Modeling of Processes	3	85
World Economy and International Economic Relations	3	108
Environmental Monitoring	2,3	85
Multiagent Intellectual Systems	2	72
Operation Systems and	3	108
Project Management	3	108
Fundamentals of Information System Reliability Theory	2	72
Post-Relational Databases	4	144

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Entrepreneurship in Russia and Abroad	3	108
Applied Theory of Digital Automata	4	144
Applications of Mathematical Theory of Control	3	108
Software Packages for Mechanics Modeling of Hardware Development	2	72
Design of Computer Systems	4	144
Design of C++ Applications	2	72
Design of Java Applications	2	72
Design of Automatic Control Systems	2	72
Visual Communication Design	4	144
Design of Digital Systems	4	144
Industrial Acoustics	6	216
Image Recognition and Digital Image Processing	2	72
Computation and Design of Cryogenic Machines, Devices and Plants	9	272
Russian Language	9	324
Block Encryption Systems	1,3	48
Stream Encryption Systems	1,3	48
Current Status and Development Prospects of Cryptographic Systems and Methods for Analyzing them	1,4	50
Modern Cryogenic Systems and Plants	7	238
Modern Superconducting Devices	4	204
Strength of Materials	10	360
Selected Chapters from Mathematics	4	144
Selected Chapters from Thermodynamics of Cryogenic Systems	4	85
Theory of Innovations	3	108
Theory of Mechanisms and Machines	6	216
Output Feedback Theory	4	144
Techniques of Making Presentations and Writing Public Speeches	4	144
International Negotiations Techniques	3	108
International Operations Management	2	72
Investment Project Management	3	108
Intangible Asset Management	2	72
Business Cost Management	2	72
Digital Image Processing	2	72
Digital Control of Dynamic Systems	3	108
Ecology	2	72
E-Business	2	72
Ergonomics	4	144
4. TRAININGS		
Electric Plasma Thrusters of Spacecraft	6,5	236
Vacuum and Plasma Technology	6,5	236
Business Image and Etiquette	1	36
Development of Personal Contact Network	1	36
Methods of Text Information Analysis	1	36
Public Speaking Skills	1	36
Text Writing	1	36
Secrets of Self Presentation	1	36
Management Styles	1	36
Time Management	1	36
Successful Telephone Conversations	1	36
5. PRE-UNIVERSITY TRAINING FOR INTERNATIONAL STUDENTS BASED ON DISTANCE LEARNING TECHNOLOGIES		
Informatics and Communication Technologies	2	88
Mathematics	2	88
Physics	2	88