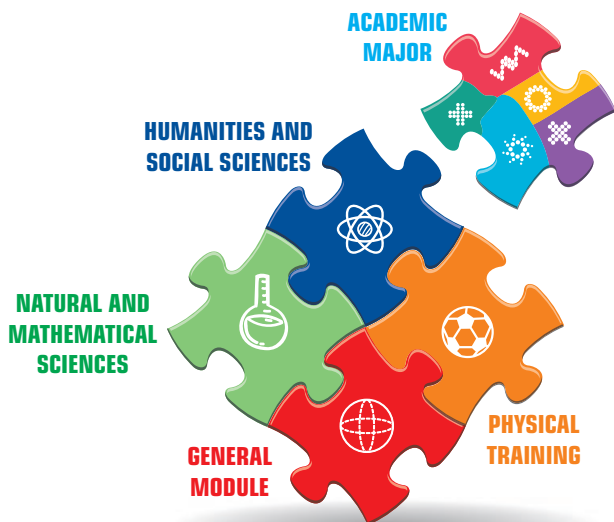


# 27.03.03. System Analysis and Management



## CONTENT OF THE EDUCATIONAL PROGRAM



Create  
your own  
educational  
program by  
assembling  
the modules

**HUMANITIES AND  
SOCIAL SCIENCES**



<b>Discipline</b>	<b>Credits**</b>
Foreign Language*	10
History*	2
History and Culture of Religions in Russia	2
History of Engineering	3
Cultural Studies	3
Management and Marketing	2
Introduction to Professional Communication in a Foreign Language	5
Heritage of Christian Thought	2
Law	2
Practical Course on the Culture of Verbal Communication in a Foreign Language (Professional Context)	5
Russian Language and Culture of Speech	2
Philosophy*	3
Economics and Management in Industry based on Innovative Approaches to Management of Competitiveness	2

\* Compulsory discipline

\*\* Choose at least  
30 credits

AND

**NATURAL AND  
MATHEMATICAL  
SCIENCES\***



Analytic Geometry	4
Databases (Course Project)	2
Discrete Mathematics	3
Discrete Mathematics (Combinatorics)	2
Discrete Mathematics (Graph Theory)	3
Differential Calculus	6
Integral Calculus and Multivariable Functions	5
Computer Science (Object-oriented Programming in Java)	5
Computer Science (Programming Fundamentals)	3
Information Technologies in Development and Production of Scientific Products	3
Multiple Integrals and Series	5
Linear Algebra	4
Systems Modelling	5
Ordinary Differential Equations	5

AND

\* Compulsory discipline

\*\* Choose at least  
100-110 credits

Discipline	Credits**
System Analysis, Optimization and Decision Making	4
Linear Algebraic Equation Systems	4
Theory of Information Processes and Systems	6
Theoretical Mechanics	4
Probability Theory and Mathematical Statistics	3
Programming Theory and Technologies (Web-based Applications Programming)	4
Theory of Functions of a Complex Variable	5
Physics (Magnetism, Waves and Optics, Fundamentals of Quantum Physics)	5
Physics (Mechanics)	5
Physics (Molecular Physics, Fundamentals of Statistical Thermodynamics, Electrostatics)	4
Chemistry	2
Ecology	3

OR

GENERAL MODULE



\* Compulsory discipline  
\*\* Choose at least  
30-40 credits

GENERAL MODULE



<b>Discipline</b>	<b>Credits**</b>
Health and Safety Training Course*	3
Engineering and Computer Graphics*	2
Materials Science*	2
Fundamentals of Automation*	3
Information System Management*	4
Electrical Engineering, Electronics and Circuit Engineering (Electronics)*	3
Electrical Engineering, Electronics and Circuit Engineering (Electrical Engineering)*	3
Introduction to Regular Management	2
Introduction to Management	4
Intelligent Technologies and Knowledge Representation (Course Project)	4
Fundamentals of Nuclear Power Engineering	2
Project Monitoring and Efficiency Assessment	3
Quality Control	3

\* Compulsory discipline

\*\* Choose at least  
30-40 credits

Discipline	Credits**
<b>SYSTEM ANALYSIS AND COMPLEX SYSTEMS LIFECYCLE MANAGEMENT (FACULTY OF BUSINESS INFORMATICS AND COMPLEX SYSTEMS MANAGEMENT)</b>	
Analysis and requirements management	3
Business planning of venture projects	3
Introduction to the institutional management	3
Introduction to the information management	5
The Art of Strategy	5
Methodology and practice of institutional management	4
Research work (organizational management)	12
Research work (system engineering)	12
Research work (modern information technology management)	12
The foundations of financing activity's automation	3
The foundations of invention and technical innovation	3
The foundations of system engineering (term project)	3
The foundations of theory of innovations	3
Practical training	15
Management of large-scale systems	5
Managing research and development works	3
Project management	4
Risk management	3
Teaching practice (receipt of primary professional skills): performing	3



\* Compulsory discipline  
\*\* Choose at least  
60-70 credits

**CONTACTS:**  
31, KASHIRSKOE SHOSSE  
115409  
Moscow

**Applicant's hotline:**

**+7 800 775 15 51**

FREE CALLS FOR RUSSIA

**+7 495 785 55 25**

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**DIRECTIONS TO THE UNIVERSITY:**

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738, 742, 907; OR THE TROLLEYBUS  
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