

BACHELOR'S PROGRAM | AEROSPACE ENGINEERING



1ST SEMESTER

- History of Russia
- Health Concepts & Strategies
- English I
- Russian as a Foreign Language
- Geometry
- Introduction to Calculus
- Foundations of Programming I
- Introduction to Engineering Graphics and Visualization

2ND SEMESTER

- Applied Physical Education
- English I
- Russian as a Foreign Language
- Geometry
- Single Variable Calculus
- Physics I. Introduction to Physics
- Foundations of Programming II
- Advanced Engineering Graphics and Visualization

3RD SEMESTER

- Applied Physical Education
 - Russian as a Foreign Language
 - Linear Algebra
 - Multivariable Calculus
 - Physics II. Mechanics
 - Computing for Engineers I
 - Fundamentals of Aerospace Engineering: An Introductory Course to Aeronautical Engineering
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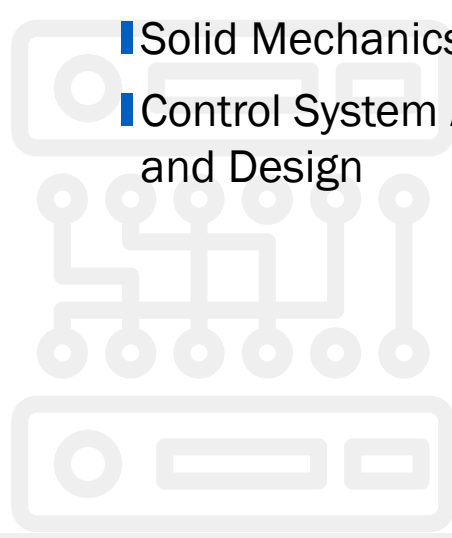
4TH SEMESTER

- Applied Physical Education
- Russian as a Foreign Language
- Fourier Analysis
- Ordinary Differential Equations
- Physics III. Thermodynamics and Electricity
- Introduction to Theoretical Mechanics
- Fundamentals of Aerospace Engineering: An Introductory Course to Aeronautical Engineering

5TH SEMESTER

- Applied Physical Education
- Russian as a Foreign Language
- Ordinary Differential Equations
- Probability Theory
- Physics Advanced
- Computing for Engineers II
- Fluid Mechanics
- Fluid Mechanics Laboratory
- Aerodynamics
- Theoretical Mechanics
- Spacecraft Flight Dynamics
- Introduction to the Physics of the Atmosphere and Outer Space

6TH SEMESTER

- Applied Physical Education
 - Russian as a Foreign Language
 - Functions of One Complex Variable
 - Partial Differential Equations
 - Physics Advanced
 - Mechanics of Deformable Bodies
 - Solid Mechanics Laboratory
 - Control System Analysis and Design
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7TH SEMESTER

- Russian as a Foreign Language
- Partial Differential Equations
- System Dynamics and Vibration
- Attitude Determination and Control
- Dynamics and Control Laboratory
- Instrumentation and Electronics Laboratory

8TH SEMESTER

- Philosophy
 - Life safety
 - Russian as a Foreign Language
 - Aircraft Flight Dynamics
 - Rotorcraft Flight Dynamics
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