

University Undergraduate Study Programme in Aerospace Engineering

Year of study 1

Semester 1

COURSE	ECTS
Computer and Engineering Graphics	4
Materials I	6
Mathematics I	8
Mechanics I	7
Physical Exercise I	1
Technology I	4

Semester 2

COURSE	ECTS
Computer Aided Design	4
Materials II	3
Mathematics II	6
Mechanics of Deformable Bodies	6
Mechanics II	6
Physical Exercise II	1
Technology II	4

Year of study 2

Semester 3

COURSE	ECTS
Complex Analysis	2
Fundamentals of Astronautics	4
Machine Elements	4
Mechanics of Discrete Systems	6
Numerical Mathematics	2
Physical Exercise III	1
Technical English I	2
Thermodynamics I	7
Vector Analysis	2

Semester 4

COURSE	ECTS
Fluid Mechanics I	7
Industrial Engineering for the Aerospace Industry	4
Physical Exercise IV	1
Probability and Statistics	2
Technical English II	2
Elective course of the study 1	3
Elective course of the study 2	3
Elective course of the study 3	3
Elective non-technical course of the study	2
Free elective course	3

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Year of study 3

Semester 5

COURSE	ECTS
Basics of Automation	4
Electrical Engineering and Electronics	4
Fluid Mechanics II	5
Fundamentals of Heat Transfer	4
Laboratory Work	1
Numerical Modelling in the Analysis of Aircraft Structures	4
Technical English III	2
Elective course of the study 4	3
Free elective course	3

Semester 6

COURSE	ECTS
Aircraft Performance	4
Aircraft Structures 1	5
Jet and Rocket Engines	5
Non-destructive Testing in Aerospace	3
Reciprocating Internal Combustion Engine	4
Strength and Reliability of Aerospace Structures	4
Technical English IV	2
Undergraduate Thesis	3