



Study Plan

B.Sc. Aerospace Engineering

Faculty of Power and Aeronautical Engineering

Study plan for reference only; may be subject to change.

Lc – Lecture T – Tutorial Lb – Laboratory P – Project S – Seminar

Semester 1

List of common courses:

No.	Course number	Course name	Lc	T	Lb	P	S	ECTS points
1.	ANW101	Algebra and geometry	0	3	0	0	0	4
2.	ANW102	Calculus 1	2	3	0	0	0	7
3.	ANW106	Computer science 1	2	0	2	0	0	5
4.	ANW105	Engineering graphics	1	0	1	0	0	2
5.	ANW104	Engineering physics	1	2	0	0	0	3
6.	ANW109	Environment protection	2	0	0	0	0	2
7.	ANW71	Health and Safety Training	0	1	0	0	0	0
8.	ANW72	Library Training	0	1	0	0	0	0
9.	ANW107	Materials 1	2	0	0	0	0	2
10.	ANW108	Mechanics 1	1	1	0	0	0	3
11.	ANWF1	Physical Education and Sports 1	0	2	0	0	0	0
12.	ANPL1	Polish Language 1	0	2	0	0	0	0
13.	ANW103	The Wittgenstein's Philosophy - Ethics	2	0	0	0	0	2

Semester 2

List of common courses:

No.	Course number	Course name	Lc	T	Lb	P	S	ECTS points
1.	ANW90	Calculus 2	2	2	0	0	0	5
2.	ANW114	Computer science 2	1	0	1	0	0	2
3.	ANW112	Economics	2	0	0	0	0	2
4.	ANW113	Electric Circuits 1	2	1	0	0	0	3
5.	ANW118	Engineering graphics - CAD 1	0	0	2	0	0	2
6.	ANJ1	English Language 1	0	2	0	0	0	2
7.	ANW115	Mechanics 2	2	2	0	0	0	5
8.	ANW117	Mechanics of structures 1	2	1	0	0	0	4
9.	ANWF2	Physical Education and Sports 2	0	2	0	0	0	0
10.	ANPL2	Polish Language 2	0	2	0	0	0	0
11.	ANW116	Thermodynamics 1	2	2	0	0	0	5

Semester 3

List of common courses:

No.	Course number	Course name	Lc	T	Lb	P	S	ECTS points
1.	ANW123	Basics of automation and control 1	2	1	0	0	0	4
2.	ANW91	Calculus 3	1	2	0	0	0	3
3.	ANJ2	English Language 2	0	2	0	0	0	2
4.	ANW122	Fluid mechanics 1	2	1	0	0	0	4
5.	ANW124	Machine design 1	1	1	0	0	0	3
6.	ANWF3	Physical Education and Sports 3	0	2	0	0	0	0

List of specialization courses:

No.	Course number	Course name	Lc	T	Lb	P	S	ECTS points
1.	ANK467	Aeronautical systems 1	2	0	0	0	0	3
2.	ANK431	Engineering graphics - CAD 2	0	0	2	0	0	2
3.	ANK466	Introduction to aerospace	1	0	0	1	0	2
4.	ANK399	Manufacturing technology 1	2	0	0	0	0	2
5.	ANK335	Materials in aerospace technology	2	0	0	0	0	3
6.	ANK427	Mechanics of structures 2	1	1	0	0	0	2

Semester 4

List of common courses:

No.	Course number	Course name	Lc	T	Lb	P	S	ECTS points
1.	ANW135	Electronics 1	1	1	0	0	0	2
2.	ANJ3	Foreign Language 3	0	2	0	0	0	2
3.	NJAC1	Languages - C1_Egzam (English)	0	0	0	0	0	0
4.	ANW125	Machine design 2	1	1	0	0	0	3
5.	ANWF4	Physical Education and Sports 4	0	2	0	0	0	0

List of specialization courses:

No.	Course number	Course name	Lc	T	Lb	P	S	ECTS points
1.	ANK473	Aerodynamics 1	2	0	0	0	0	2
2.	ANK468	Astronautics	2	0	0	0	0	4
3.	ANK316	Electronics 2 (lab)	0	0	1	0	0	1
4.	ANK436	Integrated CAD/CAM/CAE systems 1	0	0	2	0	0	2
5.	ANK471	Integrated Laboratory (AE)	0	0	2	0	0	3
6.	ANK400	Manufacturing technology 2	0	0	2	0	0	2
7.	ANK472	Mechanics of flight	0	0	1	1	0	4
8.	ANK433	Propulsion systems 1	2	1	0	0	0	5

Semester 5

List of common courses:

No.	Course number	Course name	Lc	T	Lb	P	S	ECTS points
1.	ANJ4	Foreign Language 4	0	4	0	0	0	2
2.	ANWF5	Physical Education and Sports 5	0	2	0	0	0	0

List of specialization courses:

No.	Course number	Course name	Lc	T	Lb	P	S	ECTS points
1.	ANK458	Aeronautical Systems 2	1	0	1	0	0	3
2.	ANK307	Aircraft Design 1	2	0	0	1	0	4
3.	ANS619	Aircraft Engine Design 1	2	0	0	0	0	3
4.	ANK359	Chemistry of combustion	1	1	0	0	0	3
5.	ANK365	Machine design 3	1	1	0	0	0	3
6.	ANK457	Mechanics of Flight 2	1	0	0	1	0	3
7.	ANS611	Risk and reliability in aviation	1	1	0	0	0	3
8.	ANS609	Rotorcraft Aeromechanics	2	1	0	0	0	5
9.	ANS630	Spacecraft Design	1	0	0	0	0	1

Semester 6

List of common courses:

No.	Course number	Course name	Lc	T	Lb	P	S	ECTS points
1.	ANJ5	Foreign Language 5	0	4	0	0	0	2
2.	ANW127	Intermediate Engineering Project	0	0	0	4	0	6
3.	ANWF6	Physical Education and Sports 6	0	2	0	0	0	0
4.	ANW126	Physics 1	2	0	0	0	0	3

List of specialization courses:

No.	Course number	Course name	Lc	T	Lb	P	S	ECTS points
1.	ANK308	Aircraft desing 2	1	0	0	2	0	4
2.	ANS631	Aircraft Engine Design 2	0	0	0	2	0	2
3.	ANK315	Aircraft Maintenance	2	0	0	0	0	2
4.	ANK342	Finite element method 1	2	0	1	0	0	4
5.	ANK368	Machine design 6	0	0	0	2	0	2
6.	ANS614	Simulation of Aeronautical Systems	0	1	0	1	0	3
7.	ANK401	Structure and Assebling of Airframe	2	0	0	0	0	2

Semester 7

List of common courses:

No.	Course number	Course name	Lc	T	Lb	P	S	ECTS points
1.	ANW128	Engineering Diploma Seminar	0	0	0	2	0	2
2.	ANW136	Engineering Diploma Thesis	0	0	0	12	0	15

List of specialization courses:

No.	Course number	Course name	Lc	T	Lb	P	S	ECTS points
1.	ANS613	Aeronautical Regulations	1	0	0	0	0	1
2.	ANS608	Aircraft Engines Maintenance	2	0	0	0	0	2
3.	ANK348	Computational fluid dynamics	2	0	1	0	0	3
4.	ANK479	Finite element method 2	1	0	1	0	0	2
5.	ANS627	Simulators	1	1	0	0	0	2
6.	ANK459	Vibrations and Aeroelasticity	1	1	0	0	0	3