Study plan

Name of study plan: Bachelor PIL (CS) Full-Time from 2024/25

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch:

Program of study: Professional Pilot Type of study: Bachelor full-time

Required credits: 180
Elective courses credits: 0
Sum of credits in the plan: 180

Note on the plan:

Name of the block: Compulsory courses Minimal number of credits of the block: 170

The role of the block: Z

Code of the group: 1S-BP-PIL-CS-23/24

Name of the group: 1st Sem. Bachelor Full-Time PIL (CS) from 2023/24 Requirement credits in the group: In this group you have to gain 30 credits

Requirement courses in the group: In this group you have to complete 7 courses

Credits in the group: 30 Note on the group:

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Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
11CAL1	Calculus 1 Olga Vraštilová, Tomáš Tasák, Magdalena Hykšová, Bohumil Ková, Ond ej Navrátil Bohumil Ková Ond ej Navrátil (Gar.)	Z,ZK	7	2P+4C+22B	Z	Z
11LA	Linear Algebra Lucie Kárná, Pavel Provinský, Martina Be vá ová Martina Be vá ová (Gar.) Be vá ová (Gar.)	Z,ZK	3	2P+1C+10B	Z	Z
210BN	General Navigation Radoslav Zozu ák Radoslav Zozu ák	ZK	5	4P+0C	Z	Z
21VFRC	VFR Communication Milan Kameník Milan Kameník	Z,ZK	4	2P+1C	Z	Z
21VFRT	Theory for VFR Training Ladislav Capoušek Ladislav Capoušek	Z,ZK	6	4P+4C	Z	Z
11GIE	Geometry Pavel Provinský, Old ich Hykš, Šárka Vorá ová Old ich Hykš Old ich Hykš (Gar.)	KZ	3	2P+2C+12B	Z	Z
15JP1A	Foreign Language - English for PIL 1 Marek Tome ek, Dana Boušová, Peter Morpuss, Lenka Monková, Marie Michlová, Eva Rezlerová, Markéta Musilová, Markéta Vojanová, Jitka He manová,	Z	2	0P+2C	Z	Z

Characteristics of the courses of this group of Study Plan: Code=1S-BP-PIL-CS-23/24 Name=1st Sem. Bachelor Full-Time PIL (CS) from 2023/24

11CAL1	Calculus 1	Z,ZK	7				
Sequence of real numb	Sequence of real numbers and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative. Indefinite integral, Newton integral, Riemann integral, imprope						
Riemann integral. First-	Riemann integral. First-order differential equations, linear differential equations.						
11LA	Linear Algebra	Z,ZK	3				
Vector spaces (linear co	Vector spaces (linear combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and their solvability. Determinants and						
their applications. Scala	r product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classification.						
210BN	General Navigation	ZK	5				
The Earth: latitude and longitude. Reference systems. Circles on the Earth and distance. Calculations. Time. Magnetism and sirections. Wind and Speed: Course, heading, track.							
Calculations: navigation computer conversions, TAS, rates. Calculations: 1 in 60 and navigation computer track and GS. Projections. Charts. VFR navigation. Nav Log preparation and							
use. Navigation display. Navigation in remote and oceanic areas.							

21VFRC VFR Communication Z,ZK 4
Course contents are based on PART FCL, part 090. It defines terms and abbreviations used in VFR communication. Phraseology and procedures in standard and non-standard situations.

21VFRT Theory for VFR Training

Course content is based on PPL(A) theory requirements according to Part-FCL. Lectures cover topics that are necessary to commence the practical part of ATP(A) training, such as principles of flight, airframe and powerplant, aircraft systems, instrumentation, mass and balance, performance, air law and ATC procedures, meteorology, operational procedures, navigation, radionavigation, VFR communication, flight planning and monitoring and human factor.

11GIE

Geometry

Differential geometry of curves - parameterization, the arc of the curve, torsion and curvature, Frenet's trihedron. Kinematics - a curve as a trajectory of the motion, the velocity, and acceleration of a particle moving on a curved path.

15JP1A Foreign Language - English for PIL 1

Improvement of language skills within spoken and written form of the language with the focus on aviation English. Practice of comprehension of authentic materials. Improvement of pronunciation and fluency of spoken language. Aviation phraseology in combination with general English. Revision and improvement of grammar structures, syntax and vocabulary. Topics related to air transport and occupation of pilot and air staff.

Code of the group: 2S-BP-PIL-CS-23/24

Topics related to air transport and occupation of pilot and air staff.

Name of the group: 2nd Sem. Bachelor Full-Time PIL (CS) from 2023/24 Requirement credits in the group: In this group you have to gain 30 credits

Requirement courses in the group: In this group you have to complete 10 courses

Credits in the group: 30 Note on the group:

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Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
11CAL2	Calculus 2 Olga Vraštilová, Tomáš Tasák, Magdalena Hykšová, Ond ej Navrátil, Old ich Hykš Magdalena Hykšová Ond ej Navrátil (Gar.)	Z,ZK	5	2P+3C+20B	L	Z
11STAT	Statistics Pavel Provinský, Evženie Uglickich, Pavla Pecherková, Michal Matowicki, Natálie Blahitka, Ivan Nagy, Jana Kuklová Pavla Pecherková Evženie Uglickich (Gar.)	Z,ZK	4	2P+2C+12B	L	Z
21HAV-E	Weight and Balance of Aircraft Ota Hajzler Denisa Svobodová Anna Polánecká (Gar.)	Z,ZK	3	2P+2C	L	Z
21LDA1	Aircraft 1 Karel Mündel Karel Mündel Vladimír Plos (Gar.)	Z,ZK	3	2P+1C	L	Z
21LEY1	Air Law 1 Radoslav Zozu ák Radoslav Zozu ák (Gar.)	ZK	3	3P+0C	L	Z
21ZYT1	Principles of Flight 1 Pemysl Vávra, Jakub Trýb Pemysl Vávra Vladimír Socha (Gar.)	Z,ZK	3	2P+1C	L	Z
15JP2A	Foreign Language - English for PIL 2 Marek Tome ek, Peter Morpuss, Lenka Monková, Marie Michlová, Eva Rezlerová, Markéta Musilová, Markéta Vojanová, Jitka He manová, Jan Feit,	KZ	3	0P+2C	L	Z
21CON-E	Navigation Calculations Milan Kameník, Paul Rousseau Milan Kameník	KZ	2	0P+2C	L	Z
21LPX1	Flight Training 1 Iveta Kameníková, Jakub Hospodka	KZ	2	0P+1C	Z,L	Z
21LAP1	Aviation English for Professional Pilot 1 Lukáš Zibner, Filip Havrda Filip Havrda	Z	2	0P+2C	L	Z

Characteristics of the courses of this group of Study Plan: Code=2S-BP-PIL-CS-23/24 Name=2nd Sem. Bachelor Full-Time PIL (CS) from 2023/24

11CAL2	Calculus 2	Z,ZK	5
Linear differential equa	ations and their systems, differential calculus of functions of several real variables. Riemann integral in Rn. Line and surface in	tegrals.	
11STAT	Statistics	Z,ZK	4
Basics of probability D	escriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Param	netric tests Nonpa	rametric tests
Regression and correl	ation analysis		
21HAV-E	Weight and Balance of Aircraft	Z,ZK	3
Basic terms of mass ar	d balance, basic aircraft masses, weighing and maximum aircrafts masses, overloading of aircraft, standard weights of passenger	, baggage and cre	w, determination
of load of aircraft, fligh	t documentation - loadsheet, trimsheet, securing of load, determination of centre of gravity, influence of centre of gravity positi	on on aircarft perf	ormance.
21LDA1	Aircraft 1	Z,ZK	3
Aircraft structural and	conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions an	d categorisation.	Aircraft loadings.
Systems of primary ar	d secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topics.		
21LEY1	Air Law 1	ZK	3
Air Law; ICAO Doc 73	00; ICAO Doc 7500 and 9626; International Organizations: ICAO, IATA, EASA, EUROCONTROL; airworthiness; ICAO Annexe	s; Commission re	gulation (EU)
965/2012.			
21ZYT1	Principles of Flight 1	Z,ZK	3
Aerodynamic drag, rel	ation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and	d pressures aroun	d wing, angle of
attack, reactions of wir	ng in air flow, lift and drag of a wing and an aircraft, coefficient of lift and drag, critical angle of attack, wing with final span, indu	ced drag, interfere	ence, devices for
lift and drag increase.			
15JP2A	Foreign Language - English for PIL 2	KZ	3
Improvement of language	age skills within spoken and written form of the language with the focus on aviation English. Practice of comprehension of auth	nentic materials. In	nprovement of
pronunciation and flue	ncy of spoken language. Aviation phraseology in combination with general English. Revision and improvement of grammar str	uctures, syntax ar	ıd vocabulary.

21CON-E	Navigation Calculations	KZ	2			
Projection of maps; time	Projection of maps; times - UTC, Zulu, LT; positioning; sunrise and sunset; distance calculation; projection; maps and symbols; declination; speed; wind components and wind drift;					
VFR route selection; po	VFR route selection; position plotting.					
21LPX1	Flight Training 1	KZ	2			
Practical exercises for in	nprovement of theoretical knowledge in a range of at least PPL(A) of the objects 010 - 090 in accordance with Part FCL. The	basics of flight co	ontrol, dual			
exercises, solo flights a	nd navigation flights. This course is intended only for long-term student, who are in integrated pilots training and study all cou	rses related to Str	udy field PIL			
(Professional Pilot) in a	(Professional Pilot) in all three years.					
21LAP1	Aviation English for Professional Pilot 1	Z	2			
Exercises focused on continuous reading specialized texts, vocabulary extension of technical English, terminology in the sphere of aircraft construction, principles of flight, aircraft						
engines, instruments and systems, analyzes relating to topics of air traffic, operational procedures, relevant legislation and operators procedures.						

Code of the group: 3S-BP-PIL-CS-24/25

related to Study field PIL (Professional Pilot) in all three years.

Name of the group: 3rd Sem. Bachelor Full-Time PIL (CS) from 2024/25 Requirement credits in the group: In this group you have to gain 30 credits

Requirement courses in the group: In this group you have to complete 9 courses

Credits in the group: 30 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
11FYZ	Physics Old ich Hykš, Jana Kuklová, Pavel Demo, Zuzana Malá, Tomáš Vít Jana Kuklová Pavel Demo (Gar.)	Z,ZK	5	2P+2C+18E	B Z	Z
21LAP2	Aviation English for Professional Pilot 2 Lukáš Zibner Lukáš Zibner	Z,ZK	3	0P+4C	Z	Z
21LDA2	Aircraft 2 Karel Mündel Karel Mündel	Z,ZK	4	2P+1C	Z	Z
21LPTY-E	Aircraft Operations Ladislav Capoušek Ladislav Capoušek	ZK	2	2P+0C	Z	Z
21PUP1	Instrumentation 1 Pavel Hovorka	ZK	3	2P+0C	Z	Z
21RNV	Radionavigation Milan Kameník Milan Kameník	Z,ZK	4	3P+1C	Z	Z
21VL-E	Aircraft Performance Denisa Svobodová Anna Polánecká	Z,ZK	4	2P+2C	Z	Z
21LPX2	Flight Training 2 Iveta Kameníková, Jakub Hospodka, Jakub Charezinski, Roman Matyáš Iveta Kameníková	KZ	2	0P+1C	L,Z	Z
15JZ3A	Foreign Language - English 3 Dana Boušová, Peter Morpuss, Lenka Monková, Marie Michlová, Eva Rezlerová, Markéta Musilová, Markéta Vojanová, Jitka He manová, Jan Feit	Z	3	0P+4C	Z	Z

Characteristics of the courses of this group of Study Plan: Code=3S-BP-PIL-CS-24/25 Name=3rd Sem. Bachelor Full-Time PIL (CS)

11FYZ	Physics	Z,ZK	5
Kinematics, dynami	cs, Newton's laws, force fields, mechanics of continuum, thermodynamics, introduction to electrostatics and electric current.	, ,	
21LAP2	Aviation English for Professional Pilot 2	Z,ZK	3
Exercises focused of	n repetition and smoother communication within VFR and IFR communication, communication with technical staff at the airport,	a fluent conversat	ion within the
airlines.			
21LDA2	Aircraft 2	Z,ZK	4
Manufacturers resp	onsibility, responsibilities of operator and professional supervising. Legislation in area of airworthiness. International and national	standards. Static s	olidity of aircraft
structures. Aeroelas	ticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presumption.		
21LPTY-E	Aircraft Operations	ZK	2
Aircraft oepration fo	r cruise, approach, final approach, missed approach, hodling, PBN, augmented GNSS, aviation charts for IFR flight	'	
21PUP1	Instrumentation 1	ZK	3
Basic construction	rinciples of instrumentation, electronic displays, basics of measurement - sensitivity and errors, engine instrumentation (pressur	e gauges, thermor	neters, fuel
quantity and fuel flo	w measurement, torque and EPR measurement), indication in other aircraft systems (position, fire and icing indication, vibration	monitoring, pressu	ırisation system
monitoring, aerome	ric instruments (sensors, altimeter, air speed indicator, VSI, ADC).		
21RNV	Radionavigation	Z,ZK	4
Ground direction fin	der (VDF), ADF, VOR and Doppler VOR, DME, ILS, MLS, ground ATC radar, weather Radar, SSR and transponder. Radar utilizat	ion for navigation of	during the flight.
Area navigation (RN	IAV) - general philosophy, gauges and equipment, indication and sensors for RNAV, VOR/DME (RNAV). Autopilot and flight direc	tor. Satellite naviga	ation, systems
and backups.			
21VL-E	Aircraft Performance	Z,ZK	4
Basic terms of aircra	aft performance, basic characteristic speeds, runway characteristics, single and multiengine aircraft performance class B, aircraft	performance class	A, take off and
landing performance	e, after take off and missed approach climb, noise abatement procedures, range of aircraft, drift down, MEL, ETOPS.		
landing performanc	e, after take off and missed approach climb, noise abatement procedures, range of aircraft, drift down, MEL, ETOPS. Flight Training 2	KZ	2
21LPX2		1 1	_

15JZ3A Foreign Language - English 3

Z 3

Grammar structure and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Faculty's fields of study pilot. Focus on improvement in perceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral and written form. Technical texts and their features; terminology.

Code of the group: 4S-BP-PIL-CS-24/25

Name of the group: 4th Sem. Bachelor Full-Time PIL (CS) from 2024/25 Requirement credits in the group: In this group you have to gain 28 credits

Requirement courses in the group: In this group you have to complete 10 courses

Credits in the group: 28 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
11EMO	Electromagnetic Field and Optics Old ich Hykš, Jana Kuklová, Zuzana Malá, Tomáš Vít Zuzana Malá Pavel Demo (Gar.)	Z,ZK	4	2P+1C	L	Z
21AFL1-E	Advanced Flying 1 Viktor Valenta Viktor Valenta	Z,ZK	3	2P+1C	L	Z
21MEE1	Meteorology 1 Iveta Kameniková Iveta Kameniková	Z,ZK	3	2P+2C	L	Z
21PML-E	Flight Planning and Monitoring Anna Polánecká Anna Polánecká	Z,ZK	3	2P+2C	L	Z
21PRJ2	Instrumentation 2 Pavel Hovorka Pavel Hovorka	ZK	3	2P+0C	L,Z	Z
14AP	Algorithm and Programming Vít Fábera, Michal Je ábek Michal Je ábek Vít Fábera (Gar.)	KZ	4	2P+2C	L	Z
21IFRC	IFR Communication Milan Kameník Milan Kameník	KZ	2	1P+1C	L	Z
21LPX3	Flight Training 3 Iveta Kameníková, Jakub Hospodka	KZ	2	0P+1C	L	Z
21SBU1	Bachelor Thesis Seminar 1 Lenka Hanáková Lenka Hanáková Lenka Hanáková (Gar.)	Z	1	1P+0C	L	Z
15JZ4A	Foreign Language - English 4 Peter Morpuss, Lenka Monková, Marie Michlová, Eva Rezlerová, Markéta Musilová, Markéta Vojanová, Jitka He manová, Jan Feit, Barbora Horá ková	Z,ZK	3	0P+4C	L	Z

Characteristics of the courses of this group of Study Plan: Code=4S-BP-PIL-CS-24/25 Name=4th Sem. Bachelor Full-Time PIL (CS) from 2024/25

from 2024/25			
11EMO	Electromagnetic Field and Optics	Z,ZK	4
Electric field. Elect	ric current. Magnetic field. Electromagnetic field. Optics. Basics of solid-state physics.		
21AFL1-E	Advanced Flying 1	Z,ZK	3
This course supple	ements Learning objectives laid down in Commission Regulation (EU) No 1178/2011. Instrument flying introduction, threat	and error management, pr	ocedures for
instrument departu	ires, enroute flight, holdings and arrivals, instrument approaches, performance based navigation, weather consideration, fli	ight planning and monitoring	ng, effective
briefings, phraseol	ogy differences, lost communication procedures, CFIT prevention, decompresion		
21MEE1	Meteorology 1	Z,ZK	3
Composition, size	and vertical structure of the atmosphere. QNH, QFE, QFF, QNE, density and height measurements. Wind, moisture and ac	liabatic processes. Creating	g and types of
cloud, fog, haze. P	recipitation. Types of air masses, atmospheric fronts. Distribution of pressure, cyclones, anticyclones, non-frontal cyclone.		
21PML-E	Flight Planning and Monitoring	Z,ZK	3
Flight planning for	VFR flights for small, single- and multi-engine aeroplanes	·	
21PRJ2	Instrumentation 2	ZK	3
Compass, gyrosco	pic instruments (turn indicator, attitude indicator, directional gyro), inertial instruments, recording and monitoring systems,	warning systems (TCAS, 0	3PWS), AFCS
(autopilot, flight dir	ector, autothrust), FMS, flight envelope protection, communication systems, flight computers.		
14AP	Algorithm and Programming	KZ	4
Computers, data re	epresentation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, sea	arching and sorting algorith	nms, abstract
data types (set, tu	ople, dictionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with	n files, instroduction into ob	ject oriented
programming			
21IFRC	IFR Communication	KZ	2
Definitions, Terms,	Abbreviations, Q-codes, Transport message categories, Transmission technique,, Transmission of letters, numbers, time are	nd symbols, Standard word	ds and phrases
for IFR flights, Rac	ar procedural phraseology, Standard phraseology and Morse code, Practical IFR radiotelephony procedures in normal and	d emergency situations.	
21LPX3	Flight Training 3	KZ	2
Deepening of theo	retical knowledge and practical examination of progress in professional competence in pilot skills and knowledge	<u> </u>	
21SBU1	Bachelor Thesis Seminar 1	Z	1
Types of thesis (re	view, applied research, basic research, thesis dealing with design proposals). Working with citation sources (citation source	s, citation databases, citat	ion styles, hov
to cite). Analyzing	the state of the art (standards of research writing). Defining the limitations of the state of the art. Introduction to the thesis r	nethodology.	
15JZ4A	Foreign Language - English 4	Z,ZK	3
Grammar structure	e and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the	Faculty's fields of study -	pilot. Focus or
improvement in pe	rceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in b	ooth oral and written form.	Technical texts
and their features;	terminology.		

Code of the group: 5S-BP-PIL-CS-25/26

Name of the group: 5th Sem. Bachelor Full-Time PIL (CS) from 2025/26 Requirement credits in the group: In this group you have to gain 24 credits

Requirement courses in the group: In this group you have to complete 8 courses

Credits in the group: 24 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
21LEY2	Air Law 2	ZK	3	3P+0C	Z	Z
21LILE	Human Factors in Aviation	KZ	3	4P+0C	Z	Z
21MET2	Meteorology 2 Iveta Kameniková Iveta Kameniková	Z,ZK	5	2P+2C	L,Z	Z
21PPY1-E	Operational Procedures 1 Ladislav Capoušek Ladislav Capoušek	Z,ZK	3	2P+1C	Z	Z
21PRKP-E	Practical Flight Planning Anna Polánecká, Jakub Hospodka Ota Hajzler	Z,ZK	4	2P+2C	Z	Z
21ZYT2	Principles of Flight 2 P emysl Vávra, Jakub Trýb Jakub Trýb	Z,ZK	3	2P+1C	Z	Z
21LPX4	Flight Training 4 Iveta Kameníková, Jakub Hospodka, Jakub Charezinski, Roman Matyáš Iveta Kameníková	KZ	2	0P+1C	Z	Z
21SBU2	Bachelor Thesis Seminar 2 Vladimír Socha, Lenka Hanáková Vladimír Socha	Z	1	1P+0C	Z	Z

Characteristics of the courses of this group of Study Plan: Code=5S-BP-PIL-CS-25/26 Name=5th Sem. Bachelor Full-Time PIL (CS) from 2025/26

21LEY2	Air Law 2	ZK	3
The course is focused of	n the issue of commercial commercial air transport in accordance with applicable European legislation. Within the course, the is	sue of EC regula	tions is analyzed
in detail File no. 965/20	12, regulation no. 1321/2014 and ICAO Annexes, which significantly affect the form, method and structure of commercial air tr	ansport and tran	sportation.
21LILE	Human Factors in Aviation	KZ	3
Human factors in aviation	on. Breathing, atmosphere. Heart and circulation. Radiation. Human sensory organs, nervous system. Vision, hearing, illusions	s. Health and hyg	iene, fatigue,
wakefulness and sleep.	Information processing, human error. Cockpit management. Behaviour and workload. Automation. Core competencies.		
21MET2	Meteorology 2	Z,ZK	5
	climatology, meteorological situation of mid-latitudes. Icing, turbulence, wind shear, thunderstorms, tornadoes, flying in the stromena. Observation, weather maps, important information for flight planning.	atosphere, mour	tain areas,
21PPY1-E	Operational Procedures 1	Z,ZK	3
Annex 6, PART-OPS, A	ir operator, Aircraft operation, Operating procedures, Airplane equipment, Flight management, Airspace	'	
21PRKP-E	Practical Flight Planning	Z,ZK	4
1. mass and balance 2.	fuel planning, PDP, RIF,RCF 3. ATC FPL 4. Preflight procedure and briefing-NOTAM + weather(METAR,SIGMET) 5. Jeppese	en charts 6. VFR	flight planning-
theory 7. VFR flight plan	nning- ICAO mapa, softwary 8. IFR flight planning- theory 9. PBN- RNAV, RNP 10. IFR flight planning- softwary 11. MRJT- OF	P 12. ETOPS a N	IAT HLA 13.
PET, PSR, PNR 14. pra	ctical VFR a IFR flight planning		
21ZYT2	Principles of Flight 2	Z,ZK	3
Static & amp; dynamic lo	ongitudinal stability, neutral point, location of centre of gravity, static directional & mp; lateral stability, dynamic directional & m	p; lateral stability	, control pitch
, , , ,	ctional) & roll (lateral), roll/yaw interaction, trimming, speed of sound, Mach number, compressibility, shock waves, critica	l Mach number, a	erodynamic
heating, operating limita	ations, manoeuvring envelope, gust-load diagram.		
21LPX4	Flight Training 4	KZ	2
Deepening of theoretical	al knowledge and practical examination of progress in professional competence in pilot skills and knowledge		
21SBU2	Bachelor Thesis Seminar 2	Z	1
Methodology of thesis v	viriting (introduction, analysis of the current state, specification of the problem, objectives and hypotheses). Definition of materi	als and methods	, approach to
obtaining results, prese	ntation and discussion of results, formulation of thesis conclusions. Basics of LaTeX, working with LaTeX and Word template.		

Code of the group: 6S-BP-PIL-CS-25/26

Name of the group: 6th Sem. Bachelor Full-Time PIL (CS) from 2025/26 Requirement credits in the group: In this group you have to gain 28 credits

Requirement courses in the group: In this group you have to complete 11 courses

Credits in the group: 28

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
11MSP	Modeling of Systems and Processes Bohumil Ková , Lucie Kárná Bohumil Ková Bohumil Ková (Gar.)	Z,ZK	4	2P+2C+12B	L	Z
21ELDO	Air Transport Economy	Z,ZK	3	3P+1C	L	Z

21KPSL	Communication and Surveillance Systems in Aviation Stanislav Pleninger Stanislav Pleninger	ZK	3	2P+0C	L	Z
21LCM	Aircraft Engines Tomáš Parýzek, Daniel Hanus, Vladimír Machula Daniel Hanus	Z,ZK	3	2P+1C	Z,L	Z
21LEIS	Aerodromes Ladislav Capoušek, Petr Líka , Slobodan Stoji Ladislav Capoušek Slobodan Stoji (Gar.)	Z,ZK	3	2P+1C	L	Z
21PKL2-E	Advanced Flying 2 Viktor Valenta Viktor Valenta	ZK	2	2P+0C	L,Z	Z
21PRY2-E	Operational Procedures 2	ZK	3	3P+0C	L	Z
21KSA	KSA Assessment	KZ	2	0P+2C	L	Z
21LPX5	Flight Training 5 Iveta Kameniková, Jakub Hospodka	KZ	2	0P+1C	L	Z
21LVIP	MCC - Multicrew Cooperation	KZ	2	2P+1C	L	Z
21SBU3	Bachelor Thesis Seminar 3 Lenka Hanáková Lenka Hanáková	Z	1	1P+0C	L	Z

Characteristics of the courses of this group of Study Plan: Code=6S-BP-PIL-CS-25/26 Name=6th Sem. Bachelor Full-Time PIL (CS) from 2025/26

Z,ZK

	modeling or eyeteme and recorded		
	tem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulat		
inear and nonlinea	ar system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfe	r function. Stability of LTI s	systems.
iscretization of co	ntinuous systems. System interconnection.		
21ELDO	Air Transport Economy	Z,ZK	3
1KPSL	Communication and Surveillance Systems in Aviation	ZK	3
he course acquaii	nts students with communication and surveillance systems both from the perspective of the air segment (aircraft systems) and from the perspective	of ground
frastructure (grou	nd systems), which together create the necessary prerequisites for ensuring safe, efficient and economical air transport.		
1LCM	Aircraft Engines	Z.ZK	3
rcraft piston engi	ne, rheoretical background, operational characteristics and construction schemes. Propellers, operational characterictics.	Turbine engine, theoretica	l background,
ermal cycles, cor	struction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their oper	rational characteristics. En	gine control.
1LEIS	Aerodromes	Z.ZK	3
_	pplicability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopy	1 , 1	it areas.
	arkers. Visual aids for denoting obstacles. Obstacle restriction, removal. Visual aids for navigation, lights, approach lighting	-	
	ghts. Taxiway lights. Visual aids for denoting obstacles.	J - J	
1PKL2-E	Advanced Flying 2	ZK	2
	s are based on requirements laid down in Commission Regulation (EU) No 1178/2011, subjects 081 and 100. Multi engin	e aircraft and iet aircraft ch	naracteristics
• .	nt, stabilized approach and landing errors, jet - performance - engine out flight, jet - handling - engine out flight go arounc	•	
	on manuals, MEL procedures and deviations, flight time limitation	i, or rei , reioame aeri, eer	
1PRY2-E	Operational Procedures 2	ZK	3
	on and manuals, Icing and protection of the aircraft against icing, noise abatement procedures, Abnormal and emergency		•
ontamination	y and manager only and protocolor of the another against tornig, holder abatism procedures, historinal and only gotte	ondanono dina proceduro	o,
1KSA	KSA Assessment	KZ	2
_	anagement of flight path. Automation of flight. Leadership and teamwork. Problem solving. Decision making. Situation awa	1 1	-
	covery training. Mental math.	arriocor rromacaa manago	monii opoot
1LPX5	Flight Training 5	KZ	2
-	etical knowledge and practical examination of progress in professional competence in pilot skills and knowledge		_
1LVIP	MCC - Multicrew Cooperation	KZ	2
	is in relation to human factor. MCC - basic principles, phases and methods within the area of air transport. CRM - leadersh		_
	eation, effect of stress to the multi-crew performance, standard operational procedures, automation.	ip, olladionar awareness,	accioion main
1SBU3	Bachelor Thesis Seminar 3	7	1
	Davision Triodic Collinial C		
armal and graphic	design of the thesis. Data collection and presentation, hasic statistical reasoning, validation of results and designs. Achie	eving the objectives of the	thesis and
• .	e design of the thesis. Data collection and presentation, basic statistical reasoning, validation of results and designs. Achieves tests. Preparation of the presentation, principles of presentation of the thesis.	eving the objectives of the	thesis and

Name of the block: Semestrální projekt Minimal number of credits of the block: 6

Modeling of Systems and Processes

The role of the block: ZP

11MSP

Code of the group: X1-BP-PIL-CS-22/23

Name of the group: Research Groups Bachelor Full-Time PIL (CS) from 2022/23

Requirement credits in the group: In this group you have to gain 6 credits

Requirement courses in the group: In this group you have to complete 3 courses

Credits in the group: 6 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
11X31	Project 1 Michal Matowicki Michal Matowicki	Z	2	0P+1C	L	ZP
12X31	Project 1 Dagmar Ko árková, Martin Höfler	Z	2	0P+1C	L	ZP
14X31	Project 1	Z	2	0P+1C	L	ZP
15X31	Project 1	Z	2	0P+1C	L	ZP
16X31	Project 1	Z	2	0P+1C	L	ZP
17X31	Project 1 Roman Št rba, Milan K íž, Václav Baroch, Daniel Pilát, Michal Drábek, Alexandra Dvo á ková, Veronika Faifrová, Petr Fridrišek, Rudolf Franz Heidu, Václav Baroch (Gar.)	Z	2	0P+1C	L	ZP
18X31	Project 1	Z	2	0P+1C	L	ZP
20X31	Project 1	Z	2	0P+1C	L	ZP
21X31	Project 1 Ladislav Capoušek, Iveta Kameníková, Jakub Hospodka, Lenka Hanáková, Stanislav Pleninger, Slobodan Stoji , Jakub Kraus, Andrej Lališ, Terézia Pilmannová,	Z	2	0P+1C	L	ZP
22X31	Project 1	Z	2	0P+1C	L	ZP
23X31	Project 1	Z	2	0P+1C	L	ZP
11X32	Project 2	Z	2	0P+2C	Z	ZP
12X32	Project 2	Z	2	0P+2C	Z	ZP
14X32	Project 2 Jana Kaliková, Jan Kr ál	Z	2	0P+2C	Z	ZP
15X32	Project 2	Z	2	0P+2C	Z	ZP
16X32	Project 2 Petr Bouchner, Tereza Kunclová	Z	2	0P+2C	Z	ZP
17X32	Project 2 Roman Št rba, Milan K íž, Václav Baroch, Daniel Pilát, Michal Drábek, Alexandra Dvo á ková, Veronika Faifrová, Rudolf Franz Heidu, Tomáš Horák,	Z	2	0P+2C	Z	ZP
18X32	Project 2	Z	2	0P+2C	Z	ZP
20X32	Project 2 Vladimir Faltus	Z	2	0P+2C	Z	ZP
21X32	Project 2 Radoslav Zozu ák, Vladimír Socha, Iveta Kameníková, Jakub Hospodka, Viktor Valenta, Lenka Hanáková, Stanislav Pleninger, Slobodan Stoji , Jakub Kraus,	Z	2	0P+2C	Z	ZP
22X32	Project 2	Z	2	0P+2C	Z	ZP
23X32	Project 2	Z	2	0P+2C	Z	ZP
11X33	Project 3	Z	2	0P+1C	L	ZP
12X33	Project 3 Dagmar Ko árková, Martin Höfler, Josef Kocourek, Tomáš Pad lek, Jakub Zají ek, Ivo Novotný	Z	2	0P+1C	L	ZP
14X33	Project 3 Jana Kaliková, Jan Kr ál	Z	2	0P+1C	L	ZP
15X33	Project 3	Z	2	0P+1C	L	ZP
16X33	Project 3 Petr Bouchner, Dmitrij Rožd stvenský	Z	2	0P+1C	L	ZP
17X33	Project 3 Roman Št rba, Milan K íž, Václav Baroch, Daniel Pilát, Michal Drábek, Alexandra Dvo á ková, Veronika Faifrová, Petr Fridrišek, Rudolf Franz Heidu, Václav Baroch (Gar.)	Z	2	0P+1C	L	ZP
18X33	Project 3 Tomáš Fíla	Z	2	0P+1C	L	ZP
20X33	Project 3	Z	2	0P+1C	L	ZP
21X33	Project 3 Radoslav Zozu ák, Milan Kameník, Iveta Kameníková, Jakub Hospodka, Viktor Valenta, Lenka Hanáková, Stanislav Pleninger, Slobodan Stoji , Andrej Lališ,	Z	2	0P+1C	L	ZP
22X33	Project 3	Z	2	0P+1C	L	ZP
23X33	Project 3	Z	2	0P+1C	L	ZP
	•	l			1	

Characteristics of the courses of this group of Study Plan: Code=X1-BP-PIL-CS-22/23 Name=Research Groups Bachelor Full-Time PIL (CS) from 2022/23

11X31	Project 1	Z	2
12X31	Project 1	Z	2
14X31	Project 1	Z	2

15X31	Project 1	Z	2
16X31	Project 1	Z	2
17X31	Project 1	Z	2
18X31	Project 1	Z	2
20X31	Project 1	Z	2
21X31	Project 1	Z	2
22X31	Project 1	Z	2
23X31	Project 1	Z	2
11X32	Project 2	Z	2
12X32	Project 2	Z	2
14X32	Project 2	Z	2
15X32	Project 2	Z	2
16X32	Project 2	Z	2
17X32	Project 2	Z	2
18X32	Project 2	Z	2
20X32	Project 2	Z	2
21X32	Project 2	Z	2
22X32	Project 2	Z	2
23X32	Project 2	Z	2
11X33	Project 3	Z	2
12X33	Project 3	Z	2
14X33	Project 3	Z	2
15X33	Project 3	Z	2
16X33	Project 3	Z	2
17X33	Project 3	Z	2
18X33	Project 3	Z	2
20X33	Project 3	Z	2
21X33	Project 3	Z	2
22X33	Project 3	Z	2
23X33	Project 3	Z	2

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 4

The role of the block: PV

Code of the group: Y1-BP-PIL-CS-24/25

Name of the group: Comp. Sel. Courses Bachelor Full-Time PIL (CS) from 2024/25

Requirement credits in the group: In this group you have to gain 4 credits

Requirement courses in the group: In this group you have to complete 2 courses

Credits in the group: 4 Note on the group:

NOIC OIL LIC	group.					
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
15Y1EH	European Integration within Historical Context Jan Feit	KZ	2	2P+0C	Z	PV
15Y1HE	Work Hygiene and Ergonomics in Traffic Petr Musil	KZ	2	2P+0C	Z	PV
15Y1ZV	East-West dichotomy: Prelude to the Cold War Marie Michlová	KZ	2	2P+0C	Z	PV
18Y1AM	Anatomy, Mobility and Safety of Man	KZ	2	2P+0C	Z	PV
18Y1EM	Experimental Methods in Mechanics Daniel Kytý Daniel Kytý Daniel Kytý (Gar.)	KZ	2	2P+0C	Z	PV
21Y1MP	Matlab for project-oriented study Vladimír Socha, Lenka Hanáková Lenka Hanáková	KZ	2	2P+0C	Z	PV
21Y1OH	Airline Business and Operations Eva Endrizalová, Peter Olexa Peter Olexa	KZ	2	2P+0C	Z	PV
15Y1BO	Work Safety and Health Protection in Transportation Petr Musil	KZ	2	2P+0C	L	PV
15Y1HL	History of Civil Aviation Vladimír Plos	KZ	2	2P+0C	L	PV
17Y1LL	Logistics of Passenger and Freight Air Transport Petra Skolilová Petra Skolilová (Gar.)	KZ	2	2P+0C	L	PV

18Y1MT	Engineering Materials Jaroslav Valach Jaroslav Valach (Gar.)	KZ	2	2P+0C	L	PV
18Y1PD	Computer Simulations in Transportation	KZ	2	2P+0C	L	PV
18Y1PS	Computer Simulations in Mechanics Petr Zlámal Petr Zlámal (Gar.)	KZ	2	2P+0C	L	PV
21Y1BC	Aviation safety and security Andrej Lališ, Natalia Guskova, Kate ina Grötschelová Andrej Lališ	KZ	2	2P+0C	L	PV
21Y1BS	Unmanned aircraft systems 1 Jakub Kraus, Michal erný, Tomáš Tlu ho	KZ	2	2P+0C	L	PV
21Y1RZ	Human Resources Management	KZ	2	2P+0C	L	PV
00Y1XB	Active participation in a scientific project, workshop, short-term trip abroad Patrik Horaž ovský Patrik Horaž ovský Patrik Horaž ovský (Gar.)	KZ	2	2P+0C		PV

Observativities of the course of this arrows of Ottobs Plans Ondo MA DD DIL OC 04/05 Name Ondo Od	Daabat	F!! Ti
Characteristics of the courses of this group of Study Plan: Code=Y1-BP-PIL-CS-24/25 Name=Comp. Sel. Co PIL (CS) from 2024/25		or Full-Time
15Y1EH European Integration within Historical Context	KZ	2
Versailles system, formation of new states. Europe and the powers, League of Nations. European policy in the 1920s. Fascism, nacism, communications.		
goals. Europe after Hitler's getting to power, system of bilateral agreements. Decline of the LN. Rearrangement of powers during WWII. Cold war a	and its consequence	es for Europe.
New quality of French-German relationship - a driving power of starting European integration.		
15Y1HE Work Hygiene and Ergonomics in Traffic	KZ	2
Basic knowledge of occupational hygiene and ergonomics, and their application in transport. Working environment factors, and the influence of the	ese factors on health	h of workers.
Creation and protection of working conditions that do not damage public health. Mutual links: man-machine-environment. Adaptation of technolog	y to possibilities and	I skills of a man.
Practical examples from the field of transportation; relevant legislature.		
15Y1ZV East-West dichotomy: Prelude to the Cold War	KZ	2
Historical prologue, evolution of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and or	ontinuity of the interr	national relations
in the end of 19th century and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress	s, the causes and co	onsequences.
Economic and financial history. Social changes. Discussions on texts, sources.		
18Y1AM Anatomy, Mobility and Safety of Man	KZ	2
Survey of tissues. Anatomical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circu	lation and nervous s	ystem. Structure
and biomechanics of muscular-skeletal system. Injury of human organs and musculo-skeletal system during traffic accidents. Mobility of ill and injury	ured man and his tre	eatment. Human
joint prostheses. Protective means and traffic safety regulations.		
18Y1EM Experimental Methods in Mechanics	KZ	2
The purpose and role of experimental mechanics. Sensors for mechanical testing. Overview of experimental methods. Destructive and non-destru	ctive testing of mate	erials. Design of
experimental procedures and sample preparation. Tensile and bending tests. Electrical resistance strain gages. Optical based strain measuremen	t. Fatigue and lifetim	e prediction.
Instrumented hardness testing. Introduction to electron microscopy. Errors in measurement.		
21Y1MP Matlab for project-oriented study	KZ	2
The subject's syllabus is focused on the problem-solving during bachelor's thesis preparation and it is based on students' requests. Individual exe	rcises will be prepar	ed according to
particular examples, based on actual students' needs and suggestions. The subject will have a flexible form, which is expected to bring an improve	ement of students' M	/latlab skills.
21Y1OH Airline Business and Operations	KZ	2
The course provides a comprehensive view of the commercial, operational and transportation activities of air transport companies. It focuses on the o	rganizational structu	re of companies,
various aspects of their strategy, economic and operational indicators. It introduces students in detail to operational processes and the essentials of	transportation proce	esses. It provides
a basic view of the economic aspects of air transport.		
15Y1BO Work Safety and Health Protection in Transportation	KZ	2
Fundamental legislative, definition of terms, risks and possible health damage, working conditions and health protection with focus on transportations.		I
health insurance of home and foreign business trips, statistics, working practice.	·	
15Y1HL History of Civil Aviation	KZ	2
Beginnings of flying, development of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development	1	Czech Republic.
World airports. Famous aviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic e	-	
aviation. Modern era of civil aviation. Airline companies. Supersonic flying.		
17Y1LL Logistics of Passenger and Freight Air Transport	KZ	2
Logistics airline passenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aeria		I
air cargo. Information systems in air transport. Global distribution systems.		parating and annual
18Y1MT Engineering Materials	KZ	2
Systematic overview of main classes of materials used in technical design. In addition to main classes of materials, i. e. metals, ceramics, polyments		1
to biological materials and to biomimetics. Integral approach to material selection process is also demonstrated based on so called Ashby's selection	·	attornion to para
18Y1PD Computer Simulations in Transportation	KZ	2
Principles and overview of tools for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model devel	1	I
from other CAE systems. Assignment of material properties. The types of elements and their use. Discretization of solid model. Boundary condition		
tasks of structural and modal analysis. Introduction to complex nonlinear problems.	no and application o	n the load. Basic
18Y1PS Computer Simulations in Mechanics	KZ	2
Principles and overview of tools for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model devel	l .	I .
from other CAE systems. Assignment of material properties. The types of elements and their use. Discretization of solid model. Boundary condition	•	,
tasks of structural and modal analysis. Introduction to complex nonlinear problems.	ns and application o	n the load. Dasic
	KZ	2
21Y1BC Aviation safety and security	1	2
History of safety and security development in aviation. Modern tools for safety and security management. Research and development of safe and		
21Y1BS Unmanned aircraft systems 1	KZ	2
Unmanned Aviation Development. Aircraft design. Legislation in force in the Czech Republic. Planning and execution of the flight. Airspace division	Operational risks :	and operational
procedures. Practical flights.		т
21Y1RZ Human Resources Management	KZ	2
The position of human resources in the organization and related disciplines file. Substance, importance and challenges of human resources management of the control of the	=	
environment of human resource management. Human resource planning. Search, recruitment and selection of employees. Motivation, evaluation a	nd remuneration of s	staff. Positioning,
dismissal and redundancies of employees. Education of employees. Planning career management.		

00Y1XB Active participation in a scientific project, workshop, short-term trip abroad KZ 2

Name of the block: Elective courses
Minimal number of credits of the block: 0

The role of the block: V

Code of the group: VP-BP-PIL-CS

Name of the group: Bachelor Full-Time PIL (CS) voluntary

Requirement credits in the group: Requirement courses in the group:

Credits in the group: 0 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
11SEMO	Seminar of Electromagnetic Field and Optics Old ich Hykš, Zuzana Malá, Tomáš Vít Zuzana Malá Zuzana Malá (Gar.)	Z	0	0P+2C	L	V
11SCFZ	Seminar of Physics Old ich Hykš, Jana Kuklová, Zuzana Malá, Tomáš Vít Zuzana Malá Zuzana Malá (Gar.)	Z	0	0P+2C	Z	V

Characteristics of the courses of this group of Study Plan: Code=VP-BP-PIL-CS Name=Bachelor Full-Time PIL (CS) voluntary

11SEMO	Seminar of Electromagnetic Field and Optics	Z	0
Solving problems on ele	ctric and magnetic field, electromagnetic field, optics and basics of solid-state physics.		
11SCFZ	Seminar of Physics	Z	0
Solving problems on kir	nematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodynamics.		

List of courses of this pass:

Code	Name of the course	Completion	Credits
00Y1XB	Active participation in a scientific project, workshop, short-term trip abroad	KZ	2
11CAL1	Calculus 1	Z,ZK	7
Sequence of real num	bers and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative. Indefinite integral, Newton in Riemann integral. First-order differential equations, linear differential equations.	tegral, Riemann integi	ral, improper
11CAL2	Calculus 2	Z,ZK	5
Linear di	ifferential equations and their systems, differential calculus of functions of several real variables. Riemann integral in Rn. Line a	and surface integrals.	
11EMO	Electromagnetic Field and Optics Electric field. Electric current. Magnetic field. Electromagnetic field. Optics. Basics of solid-state physics.	Z,ZK	4
11FYZ	Physics	Z.ZK	5
Kir	nematics, dynamics, Newton's laws, force fields, mechanics of continuum, thermodynamics, introduction to electrostatics and	electric current.	ı
11GIE	Geometry	KZ	3
Differential geometry	of curves - parameterization, the arc of the curve, torsion and curvature, Frenet's trihedron. Kinematics - a curve as a trajector acceleration of a particle moving on a curved path.	ry of the motion, the v	elocity, and
11LA	Linear Algebra	Z,ZK	3
Vector spaces (linear	combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and	their solvability. Deter	minants and
	their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classif	cation.	
11MSP	Modeling of Systems and Processes	Z,ZK	4
	n, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of di		
Linear and nonline	ear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer fur Discretization of continuous systems. System interconnection.	ection. Stability of LTI s	systems.
11SCFZ	Seminar of Physics	Z	0
,	Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, therm	nodynamics.	
11SEMO	Seminar of Electromagnetic Field and Optics	Z	0
1	Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.	1	1
11STAT	Statistics	Z,ZK	4
Basics of probability	Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Para	metric tests Nonparar	netric tests
	Regression and correlation analysis		
11X31	Project 1	Z	2
11X32	Project 2	Z	2
11X33	Project 3	Z	2
12X31	Project 1	7	2

12X32	Project 2	Z	2
12X33	Project 3	<u>Z</u>	2
14AP	Algorithm and Programming	KZ	4
	resentation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, searching and		
	ole, dictionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, instr		
	programming		
14X31	Project 1	Z	2
14X32	Project 2	Z	2
14X33	Project 3	Z	2
15JP1A	Foreign Language - English for PIL 1	Z	2
mprovement of lang	juage skills within spoken and written form of the language with the focus on aviation English. Practice of comprehension of author	tic materials. Impr	ovement of
oronunciation and fl	uency of spoken language. Aviation phraseology in combination with general English. Revision and improvement of grammar struct	ures, syntax and	vocabulary.
	Topics related to air transport and occupation of pilot and air staff.		
15JP2A	Foreign Language - English for PIL 2	KZ	3
	juage skills within spoken and written form of the language with the focus on aviation English. Practice of comprehension of authen	-	
pronunciation and in	uency of spoken language. Aviation phraseology in combination with general English. Revision and improvement of grammar struct Topics related to air transport and occupation of pilot and air staff.	ures, syntax and	vocabulary.
15JZ3A	Foreign Language - English 3	Z	3
l l	ind stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Faculty's	_	1
	eptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral an		
	and their features; terminology.		
15JZ4A	Foreign Language - English 4	Z,ZK	3
rammar structure a	nd stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Faculty's f	ields of study - pil	
nprovement in perce	eptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral an	d written form. Te	chnical tex
	and their features; terminology.		
15X31	Project 1	Z	2
15X32	Project 2	Z	2
15X33	Project 3	Z	2
15Y1BO	Work Safety and Health Protection in Transportation	KZ	2
undamental legisla	tive, definition of terms, risks and possible health damage, working conditions and health protection with focus on transportation. He	ealth protection pr	rogrammes
	health insurance of home and foreign business trips, statistics, working practice.		
15Y1EH	European Integration within Historical Context	KZ	2
ersailles system to	rmation of new states. Europe and the powers, League of Nations. European policy in the 1920s. Fascism, nacism, communism. Lit	tle Entente, its pri	inciples and
•	Littler's getting to never evetem of hilatoral agreements. Decline of the LN Decreasement of nevers during WWIL Cold was and it		
•	Hitler's getting to power, system of bilateral agreements. Decline of the LN. Rearrangement of powers during WWII. Cold war and it		•
goals. Europe after	New quality of French-German relationship - a driving power of starting European integration.	s consequences f	for Europe.
goals. Europe after	New quality of French-German relationship - a driving power of starting European integration. Work Hygiene and Ergonomics in Traffic	s consequences f	for Europe.
goals. Europe after 15Y1HE Basic knowledge of	New quality of French-German relationship - a driving power of starting European integration.	s consequences f KZ actors on health o	for Europe. 2 of workers.
goals. Europe after 15Y1HE Basic knowledge of	New quality of French-German relationship - a driving power of starting European integration. Work Hygiene and Ergonomics in Traffic f occupational hygiene and ergonomics, and their application in transport. Working environment factors, and the influence of these f	s consequences f KZ actors on health o	for Europe. 2 of workers.
goals. Europe after 15Y1HE Basic knowledge of	New quality of French-German relationship - a driving power of starting European integration. Work Hygiene and Ergonomics in Traffic f occupational hygiene and ergonomics, and their application in transport. Working environment factors, and the influence of these from of working conditions that do not damage public health. Mutual links: man-machine-environment. Adaptation of technology to poor	s consequences f KZ actors on health o	for Europe. 2 of workers.
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18Y1MT	Engineering Materials	KZ	2
Systematic overvie	ew of main classes of materials used in technical design. In addition to main classes of materials, i. e. metals, ceramics, polymers and	d composites, atter	tion is paid
to biol	ogical materials and to biomimetics. Integral approach to material selection process is also demonstrated based on so called Ashby's	s selection charts.	
18Y1PD	Computer Simulations in Transportation	KZ	2
_	rview of tools for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model developme	I	l
	stems. Assignment of material properties. The types of elements and their use. Discretization of solid model. Boundary conditions and		
	tasks of structural and modal analysis. Introduction to complex nonlinear problems.	a approaudit of the	
18Y1PS	Computer Simulations in Mechanics	KZ	2
	rview of tools for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model developme	I .	
	triew of tools for stress analysis of structures. Numerical methods in mechanics, limite element method. Geometric model developme stems. Assignment of material properties. The types of elements and their use. Discretization of solid model. Boundary conditions an	•	
I II OIII OIII EI CAE Sys		u application of the	luau. Dasic
201/04	tasks of structural and modal analysis. Introduction to complex nonlinear problems.	_	
20X31	Project 1	Z	2
20X32	Project 2	Z	2
20X33	Project 3	Z	2
21AFL1-E	Advanced Flying 1	Z,ZK	3
	ements Learning objectives laid down in Commission Regulation (EU) No 1178/2011. Instrument flying introduction, threat and error		_
	tures, enroute flight, holdings and arrivals, instrument approaches, performance based navigation, weather consideration, flight planr	• .	
monument acpair	briefings, phraseology differences, lost communication procedures, CFIT prevention, decompresion	g aao	9, 0000
21CON-E	Navigation Calculations	KZ	2
	,	I .	
Projection of map	ps; times - UTC, Zulu, LT; positioning; sunrise and sunset; distance calculation; projection; maps and symbols; declination; speed; wind	u components and	wind drift;
0.451.50	VFR route selection; position plotting.	7.71	
21ELDO	Air Transport Economy	Z,ZK	3
21HAV-E	Weight and Balance of Aircraft	Z,ZK	3
Basic terms of mass	s and balance, basic aircraft masses, weighing and maximum aircrafts masses, overloading of aircraft, standard weights of passenger, ba	aggage and crew, de	etermination
of load of aircra	ft, flight documentation - loadsheet, trimsheet, securing of load, determination of centre of gravity, influence of centre of gravity positi	on on aircarft perfo	rmance.
21IFRC	IFR Communication	KZ	2
_	Abbreviations, Q-codes, Transport message categories, Transmission technique,, Transmission of letters, numbers, time and symbols	I	l
	hts, Radar procedural phraseology, Standard phraseology and Morse code, Practical IFR radiotelephony procedures in normal and of		•
21KPSL	Communication and Surveillance Systems in Aviation	ZK	3
	aints students with communication and surveillance systems both from the perspective of the air segment (aircraft systems) and from	I .	_
The course acqu			oi giouria
041404	infrastructure (ground systems), which together create the necessary prerequisites for ensuring safe, efficient and economical air t		
21KSA	KSA Assessment	KZ	2
Communication.	Management of flight path. Automation of flight. Leadership and teamwork. Problem solving. Decision making. Situation awarness. W	orkload managem	ent. Upset
	preventation and recovery training. Mental math.	T	1
21LAP1	Aviation English for Professional Pilot 1	Z	2
Exercises focuse	d on continuous reading specialized texts, vocabulary extension of technical English, terminology in the sphere of aircraft constructio	n, principles of flig	ht, aircraft
•	engines, instruments and systems, analyzes relating to topics of air traffic, operational procedures, relevant legislation and operators	procedures.	
21LAP2	Aviation English for Professional Pilot 2	Z,ZK	3
Exercises focused	on repetition and smoother communication within VFR and IFR communication, communication with technical staff at the airport, a	fluent conversation	within the
	airlines.		
21LCM	Aircraft Engines	Z,ZK	3
	jine, theoretical background, operational characteristics and construction schemes. Propellers, operational characterictics. Turbine en	·	· .
	onstruction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational ch	-	-
21LDA1	Aircraft 1	Z,ZK	3
	All Galt I nd conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and ca		
Aliciali Siluciulal a			art loadings.
041.040	Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic		
21LDA2	Aircraft 2	Z,ZK	4
Manutacturers resp	consibility, responsibilities of operator and professional supervising. Legislation in area of airworthiness. International and national star		ity of aircraft
	structures. Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presu		ı
21LEIS	Aerodromes	Z,ZK	3
Basic definition	s. Applicability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Ma	rkings of movemen	nt areas.
Markings. Signs. M	arkers. Visual aids for denoting obstacles. Obstacle restriction, removal. Visual aids for navigation, lights, approach lighting systems. V	isual approach slo	pe indicator
	systems. Runway lights. Taxiway lights. Visual aids for denoting obstacles.		
21LEY1	Air Law 1	ZK	3
	oc 7300; ICAO Doc 7500 and 9626; International Organizations: ICAO, IATA, EASA, EUROCONTROL; airworthiness; ICAO Annexes;		1
, , , , , ,	965/2012.		(- /
21LEY2	Air Law 2	ZK	3
	I .	I .	_
	sed on the issue of commercial commercial air transport in accordance with applicable European legislation. Within the course, the issue	_	-
	965/2012, regulation no. 1321/2014 and ICAO Annexes, which significantly affect the form, method and structure of commercial air to		
21LILE	Human Factors in Aviation	KZ	3
Human factors in	aviation. Breathing, atmosphere. Heart and circulation. Radiation. Human sensory organs, nervous system. Vision, hearing, illusions.		ne, tatigue,
	wakefulness and sleep. Information processing, human error. Cockpit management. Behaviour and workload. Automation. Core com	i e	
21LPTY-E	Aircraft Operations	ZK	2
	Aircraft oepration for cruise, approach, final approach, missed approach, hodling, PBN, augmented GNSS, aviation charts for IF	R flight	
21LPX1	Flight Training 1	KZ	2
	ies for improvement of theoretical knowledge in a range of at least PPL(A) of the objects 010 - 090 in accordance with Part FCL. The	I	1
	ights and navigation flights. This course is intended only for long-term student, who are in integrated pilots training and study all cours	-	
· · ·	(Professional Pilat) in all three years		•

21LPX2	Flight Training 2	KZ	
Practical exercises	for improvement of theoretical knowledge in a range MEP land and IFR from the relevant subjects in accordance with Part FCL. The	e basics of instru	ment flying,
ual exercises, eme	ergency procedures, descents and navigation flights. This course is intended only for long-term student, who are in integrated pilots t	training and stud	y all course
	related to Study field PIL (Professional Pilot) in all three years.		
21LPX3	Flight Training 3	KZ	2
	Deepening of theoretical knowledge and practical examination of progress in professional competence in pilot skills and knowle		
21LPX4	Flight Training 4	KZ	2
	Deepening of theoretical knowledge and practical examination of progress in professional competence in pilot skills and knowle		
21LPX5	Flight Training 5	KZ	2
	Deepening of theoretical knowledge and practical examination of progress in professional competence in pilot skills and knowle		
21LVIP	MCC - Multicrew Cooperation	KZ	2
ight safety analysis	s in relation to human factor. MCC - basic principles, phases and methods within the area of air transport. CRM - leadership, situational	al awareness, de	cision makir
	process, communication, effect of stress to the multi-crew performance, standard operational procedures, automation.		
21MEE1	Meteorology 1	Z,ZK	3
omposition, size ai	nd vertical structure of the atmosphere. QNH, QFE, QFF, QNE, density and height measurements. Wind, moisture and adiabatic pro	•	and types
OAMETO	cloud, fog, haze. Precipitation. Types of air masses, atmospheric fronts. Distribution of pressure, cyclones, anticyclones, non-frontal		
21MET2	Meteorology 2 popical climatology, meteorological situation of mid-latitudes. Icing, turbulence, wind shear, thunderstorms, tornadoes, flying in the str	Z,ZK	5
Cilitiatic zones, tre	reducing visibility phenomena. Observation, weather maps, important information for flight planning.	atospriere, mour	ilaiii aitas,
210BN	General Navigation	ZK	5
- 1	ا e and longitude. Reference systems. Circles on the Earth and distance. Calculations. Time. Magnetism and sirections. Wind and Spe		-
	tion computer conversions, TAS, rates. Calculations: 1 in 60 and navigation computer track and GS. Projections. Charts. VFR naviga		•
g	use. Navigation display. Navigation in remote and oceanic areas.	=-9 р-	
21PKL2-E	Advanced Flying 2	ZK	2
	s are based on requirements laid down in Commission Regulation (EU) No 1178/2011, subjects 081 and 100. Multi engine aircraft at		- 1
energy managen	nent, stabilized approach and landing errors, jet - performance - engine out flight, jet - handling - engine out flight go around, UPRT,	volcanic ash, co	d weather
	operations, operation manuals, MEL procedures and deviations, flight time limitation		
21PML-E	Flight Planning and Monitoring	Z,ZK	3
'	Flight planning for VFR flights for small, single- and multi-engine aeroplanes		'
21PPY1-E	Operational Procedures 1	Z,ZK	3
'	Annex 6, PART-OPS, Air operator, Aircraft operation, Operating procedures, Airplane equipment, Flight management, Airspa	ce	'
21PRJ2	Instrumentation 2	ZK	3
omnace avroccon			
onipass, gyroscop	ic instruments (turn indicator, attitude indicator, directional gyro), inertial instruments, recording and monitoring systems, warning sy	stems (TCAS, G	PWS), AFC
ompass, gyroscop	ic instruments (turn indicator, attitude indicator, directional gyro), inertial instruments, recording and monitoring systems, warning sy (autopilot, flight director, autothrust), FMS, flight envelope protection, communication systems, flight computers.	stems (TCAS, G	PWS), AFC
21PRKP-E		stems (TCAS, G	PWS), AFC
21PRKP-E mass and balance	(autopilot, flight director, autothrust), FMS, flight envelope protection, communication systems, flight computers. Practical Flight Planning e 2. fuel planning, PDP, RIF,RCF 3. ATC FPL 4. Preflight procedure and briefing-NOTAM + weather(METAR,SIGMET) 5. Jeppesen	Z,ZK charts 6. VFR fli	4 ght planning
21PRKP-E mass and balance	(autopilot, flight director, autothrust), FMS, flight envelope protection, communication systems, flight computers. Practical Flight Planning e 2. fuel planning, PDP, RIF,RCF 3. ATC FPL 4. Preflight procedure and briefing-NOTAM + weather(METAR,SIGMET) 5. Jeppesen to planning- ICAO mapa, softwary 8. IFR flight planning- theory 9. PBN- RNAV, RNP 10. IFR flight planning- softwary 11. MRJT- OFP	Z,ZK charts 6. VFR fli	4 ght planning
21PRKP-E . mass and balanc theory 7. VFR fligh	(autopilot, flight director, autothrust), FMS, flight envelope protection, communication systems, flight computers. Practical Flight Planning e 2. fuel planning, PDP, RIF,RCF 3. ATC FPL 4. Preflight procedure and briefing-NOTAM + weather(METAR,SIGMET) 5. Jeppesen at planning- ICAO mapa, softwary 8. IFR flight planning- theory 9. PBN- RNAV, RNP 10. IFR flight planning- softwary 11. MRJT- OFP PET, PSR, PNR 14. practical VFR a IFR flight planning	Z,ZK charts 6. VFR fli 2 12. ETOPS a N	4 ght planning AT HLA 13.
21PRKP-E . mass and balance theory 7. VFR flight	(autopilot, flight director, autothrust), FMS, flight envelope protection, communication systems, flight computers. Practical Flight Planning e 2. fuel planning, PDP, RIF,RCF 3. ATC FPL 4. Preflight procedure and briefing-NOTAM + weather(METAR,SIGMET) 5. Jeppesen at planning- ICAO mapa, softwary 8. IFR flight planning- theory 9. PBN- RNAV, RNP 10. IFR flight planning- softwary 11. MRJT- OFP PET, PSR, PNR 14. practical VFR a IFR flight planning Operational Procedures 2	Z,ZK charts 6. VFR fli 12. ETOPS a N ZK	4 ght planning AT HLA 13.
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21PRKP-E . mass and balance theory 7. VFR flight 21PRY2-E Flight documenta	(autopilot, flight director, autothrust), FMS, flight envelope protection, communication systems, flight computers. Practical Flight Planning e 2. fuel planning, PDP, RIF,RCF 3. ATC FPL 4. Preflight procedure and briefing-NOTAM + weather(METAR,SIGMET) 5. Jeppesen at planning- ICAO mapa, softwary 8. IFR flight planning- theory 9. PBN- RNAV, RNP 10. IFR flight planning- softwary 11. MRJT- OFP PET, PSR, PNR 14. practical VFR a IFR flight planning Operational Procedures 2 tion and manuals, Icing and protection of the aircraft against icing, noise abatement procedures, Abnormal and emergency situation contamination	Z,ZK charts 6. VFR fli 12. ETOPS a N ZK s and procedure	4 ght planning AT HLA 13. 3 s, Runway
21PRKP-E . mass and balance theory 7. VFR flight 21PRY2-E Flight documenta	(autopilot, flight director, autothrust), FMS, flight envelope protection, communication systems, flight computers. Practical Flight Planning e 2. fuel planning, PDP, RIF,RCF 3. ATC FPL 4. Preflight procedure and briefing-NOTAM + weather(METAR,SIGMET) 5. Jeppesen nt planning- ICAO mapa, softwary 8. IFR flight planning- theory 9. PBN- RNAV, RNP 10. IFR flight planning- softwary 11. MRJT- OFP PET, PSR, PNR 14. practical VFR a IFR flight planning Operational Procedures 2 tion and manuals, Icing and protection of the aircraft against icing, noise abatement procedures, Abnormal and emergency situation contamination Instrumentation 1	Z,ZK charts 6. VFR fli 12. ETOPS a N ZK s and procedure	4 ght planning AT HLA 13. 3 s, Runway
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21PRKP-E . mass and balance theory 7. VFR flight 21PRY2-E Flight documenta 21PUP1 Basic construction	(autopilot, flight director, autothrust), FMS, flight envelope protection, communication systems, flight computers. Practical Flight Planning e 2. fuel planning, PDP, RIF,RCF 3. ATC FPL 4. Preflight procedure and briefing-NOTAM + weather(METAR,SIGMET) 5. Jeppesen nt planning- ICAO mapa, softwary 8. IFR flight planning- theory 9. PBN- RNAV, RNP 10. IFR flight planning- softwary 11. MRJT- OFP PET, PSR, PNR 14. practical VFR a IFR flight planning Operational Procedures 2 tion and manuals, Icing and protection of the aircraft against icing, noise abatement procedures, Abnormal and emergency situation contamination Instrumentation 1 n principles of instrumentation, electronic displays, basics of measurement - sensitivity and errors, engine instrumentation (pressure w measurement, torque and EPR measurement), indication in other aircraft systems (position, fire and icing indication, vibration more	Z,ZK charts 6. VFR fli 12. ETOPS a N ZK s and procedure ZK gauges, thermo	4 ght planning AT HLA 13. 3 s, Runway 3 neters, fuel
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	Project 3	Z	2
21Y1BC	Aviation safety and security	KZ	2
History o	f safety and security development in aviation. Modern tools for safety and security management. Research and development of safe a	i and secure syster	ns.
21Y1BS	Unmanned aircraft systems 1	KZ	2
Unmanned Aviation	n Development. Aircraft design. Legislation in force in the Czech Republic. Planning and execution of the flight. Airspace division. Ope	erational risks and	operational
	procedures. Practical flights.		
21Y1MP	Matlab for project-oriented study	KZ	2
	bus is focused on the problem-solving during bachelor's thesis preparation and it is based on students' requests. Individual exercises		٠ ا
· · · · · · · · · · · · · · · · · · ·	les, based on actual students' needs and suggestions. The subject will have a flexible form, which is expected to bring an improveme	ent of students' Ma	atlab skills.
21Y1OH	Airline Business and Operations	KZ	2
•	s a comprehensive view of the commercial, operational and transportation activities of air transport companies. It focuses on the organiz		
various aspects of	their strategy, economic and operational indicators. It introduces students in detail to operational processes and the essentials of transp	ortation processe	es. It provides
	a basic view of the economic aspects of air transport.		
21Y1RZ	Human Resources Management	KZ	2
•	human resources in the organization and related disciplines file. Substance, importance and challenges of human resources manage		
environment of nur	nan resource management. Human resource planning. Search, recruitment and selection of employees. Motivation, evaluation and ren	nuneration of staff	r. Positioning,
	diamingal and redundancing of ampleyons. Education of ampleyons. Planning corner management		
047\/T4	dismissal and redundancies of employees. Education of employees. Planning career management.	7.71/	
21ZYT1	Principles of Flight 1	Z,ZK	3
Aerodynamic drag	Principles of Flight 1 relation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and pro-	essures around w	ring, angle of
Aerodynamic drag	Principles of Flight 1 relation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and priving in air flow, lift and drag of a wing and an aircraft, coefficient of lift and drag, critical angle of attack, wing with final span, induced	essures around w	ring, angle of
Aerodynamic drag attack, reactions of	Principles of Flight 1 relation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and priving in air flow, lift and drag of a wing and an aircraft, coefficient of lift and drag, critical angle of attack, wing with final span, induced lift and drag increase.	essures around w drag, interference	ving, angle of e, devices for
Aerodynamic drag attack, reactions of 21ZYT2	Principles of Flight 1 relation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and priving in air flow, lift and drag of a wing and an aircraft, coefficient of lift and drag, critical angle of attack, wing with final span, induced lift and drag increase. Principles of Flight 2	essures around w drag, interference	ring, angle of e, devices for
Aerodynamic drag attack, reactions of 21ZYT2 Static & dyna	Principles of Flight 1 relation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and priving in air flow, lift and drag of a wing and an aircraft, coefficient of lift and drag, critical angle of attack, wing with final span, induced lift and drag increase.	essures around w drag, interference Z,ZK ; lateral stability, o	angle of e, devices for 3 control pitch
Aerodynamic drag attack, reactions of 21ZYT2 Static & dyna	Principles of Flight 1 relation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and proving in air flow, lift and drag of a wing and an aircraft, coefficient of lift and drag, critical angle of attack, wing with final span, induced lift and drag increase. Principles of Flight 2 amic longitudinal stability, neutral point, location of centre of gravity, static directional & Company Compa	essures around w drag, interference Z,ZK ; lateral stability, o	angle of e, devices for 3 control pitch
Aerodynamic drag attack, reactions of 21ZYT2 Static & dyna	Principles of Flight 1 relation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and proving in air flow, lift and drag of a wing and an aircraft, coefficient of lift and drag, critical angle of attack, wing with final span, induced lift and drag increase. Principles of Flight 2 amic longitudinal stability, neutral point, location of centre of gravity, static directional & Description of the stability, dynamic directional & Description of the stability, roll/yaw interaction, trimming, speed of sound, Mach number, compressibility, shock waves, critical	essures around w drag, interference Z,ZK ; lateral stability, o	angle of e, devices for 3 control pitch
Aerodynamic drag attack, reactions of 21ZYT2 Static & dyna (longitudinal), ya	Principles of Flight 1 relation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and proving in air flow, lift and drag of a wing and an aircraft, coefficient of lift and drag, critical angle of attack, wing with final span, induced lift and drag increase. Principles of Flight 2 amic longitudinal stability, neutral point, location of centre of gravity, static directional & Description of the stability, dynamic directional & Description of the stability, neutral point, roll/yaw interaction, trimming, speed of sound, Mach number, compressibility, shock waves, critical heating, operating limitations, manoeuvring envelope, gust-load diagram.	z,ZK ; lateral stability, o	ing, angle of e, devices for 3 control pitch erodynamic
Aerodynamic drag attack, reactions of 21ZYT2 Static & Drag (longitudinal), ya 22X31	Principles of Flight 1 relation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and proving in air flow, lift and drag of a wing and an aircraft, coefficient of lift and drag, critical angle of attack, wing with final span, induced lift and drag increase. Principles of Flight 2 amic longitudinal stability, neutral point, location of centre of gravity, static directional & Description of the stability, dynamic directional & Description of the stability, roll/yaw interaction, trimming, speed of sound, Mach number, compressibility, shock waves, critical heating, operating limitations, manoeuvring envelope, gust-load diagram. Project 1	essures around w drag, interference Z,ZK ; lateral stability, o Mach number, ae	angle of e, devices for 3 control pitch erodynamic 2
Aerodynamic drag attack, reactions of 21ZYT2 Static & Damp; dyna (longitudinal), ya 22X31 22X32	Principles of Flight 1 relation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and priving in air flow, lift and drag of a wing and an aircraft, coefficient of lift and drag, critical angle of attack, wing with final span, induced lift and drag increase. Principles of Flight 2 amic longitudinal stability, neutral point, location of centre of gravity, static directional & mp; lateral stability, dynamic directional & amp w (directional) & amp; roll (lateral), roll/yaw interaction, trimming, speed of sound, Mach number, compressibility, shock waves, critical heating, operating limitations, manoeuvring envelope, gust-load diagram. Project 1 Project 2	essures around w drag, interference Z,ZK ; lateral stability, o Mach number, ae Z	angle of e., devices for 3 control pitch erodynamic 2 2
Aerodynamic drag attack, reactions of 21ZYT2 Static & Description (longitudinal), ya 22X31 22X32 22X33	Principles of Flight 1 relation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and priving in air flow, lift and drag of a wing and an aircraft, coefficient of lift and drag, critical angle of attack, wing with final span, induced lift and drag increase. Principles of Flight 2 amic longitudinal stability, neutral point, location of centre of gravity, static directional & map; lateral stability, dynamic directional & amp; w (directional) & amp; roll (lateral), roll/yaw interaction, trimming, speed of sound, Mach number, compressibility, shock waves, critical heating, operating limitations, manoeuvring envelope, gust-load diagram. Project 1 Project 2 Project 3	essures around we drag, interference Z,ZK; lateral stability, of Mach number, as Z, Z, Z, Z, Z, Z, Z, S,	3 control pitch rodynamic 2 2 2

For updated information see http://bilakniha.cvut.cz/en/FF.html Generated: day 2025-08-08, time 18:35.