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 Denisa Svobodová	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 departi	ures, enroute flight, holdings and arrivals, instrument approaches, performance based navigation, weather consideration, fli	ight planning and monitorir	ng, effective
briefings, phraseo	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	diabatic processes. Creating	ig 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	GPWS), AFCS
(autopilot, flight dir	ector, autothrust), FMS, flight envelope protection, communication systems, flight computers.		
14AP	Algorithm and Programming	KZ	4
Computers, data r	epresentation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, sea	arching and sorting algorith	hms, 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	oject oriented
programming			
21IFRC	IFR Communication	KZ	2
Definitions, Terms,	Abbreviations, Q-codes, Transport message categories, Transmission technique,, Transmission of letters, numbers, time an	nd symbols, Standard word	ds and phrases
for IFR flights, Rad	lar 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	· · ·	
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 text
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 Jakub Hospodka	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 focuse	d on the issue of commercial commercial air transport in accordance with applicable European legislation. Within the course, the	issue of EC regulat	ions is analyze
in detail File no. 965/	2012, regulation no. 1321/2014 and ICAO Annexes, which significantly affect the form, method and structure of commercial ai	r transport and trans	sportation.
21LILE	Human Factors in Aviation	KZ	3
Human factors in avi	ation. Breathing, atmosphere. Heart and circulation. Radiation. Human sensory organs, nervous system. Vision, hearing, illusion	ons. Health and hyg	iene, fatigue,
wakefulness and sle	ep. Information processing, human error. Cockpit management. Behaviour and workload. Automation. Core competencies.		
21MET2	Meteorology 2	Z,ZK	5
	cal climatology, meteorological situation of mid-latitudes. Icing, turbulence, wind shear, thunderstorms, tornadoes, flying in the enomena. Observation, weather maps, important information for flight planning.	stratosphere, moun	tain areas,
21PPY1-E	Operational Procedures 1	Z,ZK	3
Annex 6, PART-OPS	Air 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. Jeppe	esen charts 6. VFR	flight planning-
theory 7. VFR flight p	lanning- ICAO mapa, softwary 8. IFR flight planning- theory 9. PBN- RNAV, RNP 10. IFR flight planning- softwary 11. MRJT- C	OFP 12. ETOPS a N	AT HLA 13.
PET, PSR, PNR 14.	oractical VFR a IFR flight planning		
21ZYT2	Principles of Flight 2	Z,ZK	3
Static & amp; dynami	c longitudinal stability, neutral point, location of centre of gravity, static directional & lateral stability, dynamic directional &	amp; lateral stability	, control pitch
, , , ,	irectional) & roll (lateral), roll/yaw interaction, trimming, speed of sound, Mach number, compressibility, shock waves, criti	cal Mach number, a	erodynamic
heating, operating lir	nitations, manoeuvring envelope, gust-load diagram.		
21LPX4	Flight Training 4	KZ	2
Deepening of theore	tical knowledge and practical examination of progress in professional competence in pilot skills and knowledge		
21SBU2	Bachelor Thesis Seminar 2	Z	1
Methodology of thes	s writing (introduction, analysis of the current state, specification of the problem, objectives and hypotheses). Definition of mat	erials and methods	, approach to
obtaining results, pre	sentation and discussion of results, formulation of thesis conclusions. Basics of LaTeX, working with LaTeX and Word templat	e.	

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 nonline	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 abatisment procedures, historinal and only gone,	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 Jakub Hospodka, Lenka Hanáková, Stanislav Pleninger, Slobodan Stoji , Jakub Kraus, Andrej Lališ, Terézia Pilmannová, Peter Vittek, Natalia Guskova,	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 Vladimír 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 Fila	Z	2	0P+1C	L	ZP
20X33	Project 3	Z	2	0P+1C	L	ZP
21X33	Project 3 Milan Kameník, Iveta Kameníková, Jakub Hospodka, Viktor Valenta, Lenka Hanáková, Stanislav Pleninger, Slobodan Stoji , Andrej Lališ, Terézia Pilmannová,	Z	2	0P+1C	L	ZP
22X33	Project 3	Z	2	0P+1C	L	ZP
23X33	Project 3	Z	2	0P+1C	L	ZP

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 gi	•					
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 Vladimír Socha	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

Jessalles system, formation of new states. Europe and the powers, League on Nations. European policy in the 1920s. Fraction, nacients, communism. Little Enferment, septimical powers, principles and gazenestic Design of the LN. Rearrangement of powers during WWII. Cold war and its consequences for Europe, were quality of French-German relationship - a diriving power of stating European integration. ISTYTIE Work Hyglend and Ergonomics in Traffic Jasse knowledge of occupational hyglene and ergonomics, and their application in transport. Worsing environment factors, and the influence of Brees factors on health of workers, and the protection of protection of vorking conditions that do not demange poulch health. Mulail nikes, man-machine-environment, Adaptation of schrology to possibilities and skills of a man. Practical examples from the fact of transportation, relevant legislature. ISTYZV Basil-West officion from the 1840 of transportation, relevant legislature. ISTYZV Basil-West officion from the 1840 of transportation of the World and Essart from the 1900s. Focus on the history in the period between 1890 and 1960. Milestones and continuity of the informational relations in the end of 19ths community and the beginning of the 20th century. Recollution, the collection of the 1900 and 1960. Milestones and continuity of the informational relationship of the 1900 and 1960. Milestones and continuity of the informational relationship of the 1900 and 1960. Milestones and continuity of the 1900 and 1960 and 1960. Milestones and continuity of the 1900 and 1960 and 1960. Milestones and continuity of the 1900 and 1960 and 1960. Milestones and continuity of the 1900 and 1960 and 1960. Milestones and continuity of the 1900 and 1960 and 1960. Milestones and continuity of the 1900 and 1960 and 1960. Milestones and continuity of the 1900 and 1960 and 1960. Milestones and 1960 and 1960 and 1960 and 1960. Miles	Characteristics of PIL (CS) from 202	the courses of this group of Study Plan: Code=Y1-BP-PIL-CS-24/25 Name=Comp. Sel. Cou 4/25	urses Bachelo	or Full-Time
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piacle. Europe after letter's getting to power, system of bilaterial agreements. Decline of the LN. Retarrangement of powers during WWIL Cold war and its consequences for Europe, laws quality of Fench-Comman nationally—a diving govern of starting European integration. 15/11/EI Work Hyglene and Ergonomics in Traffic asse knowledged of couplained hygiene and ergonomics of their agplication in transport. Working environment factors, and the influence of these integrates on health of winders. Practice learnings from the fact of transportation, reterent elegistative. 15/17/EV East-West dichotomy: Preflude to the Cold War international production of the West and "Estarting the Stops. Focus on the history in the period between 1850 and 1960. Milestones and continuity of the international resistance in the end of 15th century and the beginning of the 20th century. Recolutions, the causes and consequences. Scientific and technological progress, the causes and consequences. Scientific and technological progress. The causes and consequences. Scientific and transportation and transportation and transportation and transportation and transportation and tr	Versailles system, form			
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Historical prologue, evolution of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Mileatones and continuity of the international relations in the end of 19th century and the beginning of the 20th century. Revolutions, the causes and consequences. Economic and financial history. Social changes. Discussions on tests, sources. IRY1AM Anatomy, Mobility and Safety of Man (XZ 2) Survey of issues Anatomical structure and growth of borns. Articular joint. Remodelling of borne tissue. Anatomical structure of muscles. Blood circulation and nervous system. Report of human organs and musculor-skeletal system during traffic accidents. Mobility of III and injured man and his treatment. Human oritic proatheses. Protective means and traffic safety regulations. IRY1EM Experimental Methods in Mechanics IRY2 Discussion of the Experimental Procedures and sandle preparation. Tensile and bending tests. Electrical resistance strain gages. Optical based strain measurement. Failigue and illetine prediction. neturmented hardness testing, Introduction to electron microscopy. Errors in measurement. IRV2 2 IRV3 Discussion of the Experimental Procedures of the Experimental Procedures and sandle preparation. Tensile and bending tests. Electrical resistance strain gages. Optical based strain measurement. Failigue and illetine prediction. neturometed hardness testing, Introduction to electron microscopy. Errors in measurement. IRV2 2 IRV3 Discussion of the Experimental Procedure of the Experimental Procedures and the Experimental Procedures and the Experimental Procedures are according to a strictural examples, based on actual students' needs and suggestation. The subject will have a feedate form, which i			k7	2
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EVAN Anatomy, Mobility and Safety of Man Natomy, Mobility of Mobility of Man Natomy, Mobility of Man Natomy, Mobility of Mobility and Safety of Mobility of			-	
IBY1AM Anatomy, Mobility and Safety of Man Survey of issues. Anatomical structure and growth of bones. A retributed in the modelling of bone issue. Anatomical structure and growth of bones. A retributed in the modelling of bone issue. Anatomical structure of muscular-selected system: highly of human organs and musculo-skeletal system during traffic accidents. Mobility of III and injured man and his treatment. Human origin possibles. Protective means and traffic safety regulations. IBY1EM Experimental Methods in Mechanics KZ 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			ine causes and co	nisequences.
Survey of issues. Anatomical structure and growth of bones. Articular joint. Remodelling of bone hissue. Anatomical structure of muscular-skellad system. Nitro Muscular skellad system during traffic accidents. Mobility of ill and injured man and his treatment. Human orist prostheses. Protective means and traffic safety regulations. IRV EX. 2 The purpose and role of experimental Methods in Mechanics Resides and benefits of experimental mechanics. Sensors for mechanical testing. Overview of experimental methods. Destructive and non-destructive testing of materials. Design of experimental procedures and sample preparation. Tensile and bending tests. Electrical resistence strain gages. Optical based strain measurement. Fatgue and illentime prediction. Institution of the proper structure of the proper structure of the proper structure of the proper structure. The structure of the proper structure of the proper structure of the proper structure of the proper structure. The structure of the problem-solving during basehelists thesis preparation and it is based on students' requests. Individual exercises will be prepared according to surficular examples, based on actual students needs and suggestions. The subject will have a flexible form, which is expected to bring an improvement of students Matish skills. Structure provides a comprehensive view of the commercial, operational and transportation and transportation or propagation and proper structure of the strategy, economic and operational indicators. It introduces students in detail to operational processes and the essentials of transportation processes. It provides a basic view of the economic aspects of air transport. ISTYIBO Work Safety and Health Protection in Transportation Work Safety and Health Protection in Transportation. ISTYIBO Work Safety and Health Protection in Transportation of terms, risks and			1/7	2
ind blomechanics of muscular-skeletal system, highery of human organs and musculo-skeletal system during traffic accidents, Mobility of ill and injured man and his treatment. Human oint proatheses. Protective means and traffic safety regulations. IBY1EM Experimental Methods in Mechanics The purpose and role of experimental mechanics. Sersos for mechanical testing, Overview of experimental methods. Destructive and non-destructive testing of materials. Design of systems and procedures and sample preparation. Freating and bending tosts. Electrical resistance strain gages. Optical based strain measurement. Failgue and filterine prediction, instrumented hardness testing, Introduction to electron microscopy. Errors in measurement. 21Y1MP Matlab for project-oriented study The subjects syllabus is focused on the problem-solving during bachelor's thesis preparation and it is based on students' requests. Individual exercises will be prepared according to a focus a facility of the subjects syllabus is focused on the problem-solving during bachelor's thesis preparation and it is based on students' requests. Individual exercises will be prepared according to practical examples, based on actual subdens' needs and suggestions. The subject will have a flexible form, which is expected to bring an improvement of students Matlab skills. 21Y1OH Airline Business and Operations 12Y1HIP Airline Business and Operations 12Y1HIP Airline Business and Operations in the subject will have a flexible form, which is expected to bring an improvement of students Matlab skills. 21Y1OH Airline Business and Operational and transportation activities of air transport commonic aspects of their strategy, economic and operational indicators, it introduces students in detail to operational processes and the essentials of transportation processes. It provides backers were of their strategy, economic and operational indicators, it introduces students in detail to operational processes and the essentials of transportation. Health protection process				
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IBY1EM Experimental Methods in Mechanics KZ 2			ed man and his tre	eatment. Human
The purpose and role of experimental mechanics. Sensors for mechanical testing, Overview of experimental methods. Destructive and non-destructive testing of materials. Design of systematory production and support of the production of the producti		<u>. </u>		
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Available for project-oriented study Matlab for project-oriented students have a flexible form, which is expected to bring an improvement of students Matlab skills. Patlab for project-oriented students for project-oriented stude	The purpose and role of	f experimental mechanics. Sensors for mechanical testing. Overview of experimental methods. Destructive and non-destructi	ive testing of mate	rials. Design of
Part Martiab for project-oriented study Ratiab for project-oriented study Re subjects syllabus is lossed on the project-oriented study Re subjects syllabus is closued on the protection government of students with the subjects syllabus is closued on the project according to sarctual students' needs and suggestions. The subject will have a flexible form, which is expected to bring an improvement of students Malab skills. The course provides a comprehensive view of the commercial, operational and transportation activities of air transport companies. It focuses on the organizational structure of companies, arious aspects of their strategy, economic and operational indicators. It introduces students in detail to operational processes and the essentials of transportation processes. It provides basics view of the economic appeals of air transport. 1571BO			atigue and lifetim	e prediction.
The subject's syllabus is focused on the problem-solving during bachelor's thesis preparation and it is based on students' requests, Individual exercises will be prepared according to varicular examples, based on actual students' needs and suggestions. The subject will have a flexible form, which is expected to bring an improvement of students' Matilab 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 organizational structure of companies, arous aspects of their strategy, excommic and operational processes and the essentials of transportation processes. It provides a basic view of the economic aspects of air transport. 15Y1BO Work Safety and Health Protection in Transportation "undamental legislative, definition of terms, risks and possible health damage, working conditions and health protection with focus on transportation. Health protection programmes, realth insurance of home and foreign business trips, statistics, working practice. 15Y1HL History of Civil Aviation KZ 2 2 againnings of flying, development of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovaki aviation pioneers. Development of aircrafts in the Czech Republic. World airports. Famous aviators. Helicipes. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era of aviation. Golden era of civil aviation. Morten era of vivil aviation. Airline companies. Supersonic flying. 17Y1LL Logistics of Passenger and Freight Air Transport 18Y1MT Engineering Materials KZ 2 2 active and the province of materials used in technical design. In addition to main classes of materials, i. e. metals, ceramics, polymers and composites, attention is paid obiological materials and to biomiselics. Integral approach to material selection process is also demonstrated based on so called Ashby's selection charts. 18Y1MT Engineering Materials 1	Instrumented hardness	testing. Introduction to electron microscopy. Errors in measurement.		
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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	٧
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

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11SEMO	Seminar of Electromagnetic Field and Optics	Z	0	
Solving problems on ele	ectric and magnetic field, electromagnetic field, optics and basics of solid-state physics.			
11SCFZ	Seminar of Physics	Z	0	
Solving problems on kinematics, 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 nu	mbers and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative. Indefinite integral, Newton inte	gral, Riemann integr	al, impropei
	Riemann integral. First-order differential equations, linear differential equations.		
11CAL2	Calculus 2	Z,ZK	5
Linear	differential equations and their systems, differential calculus of functions of several real variables. Riemann integral in Rn. Line and	d surface integrals.	
11EMO	Electromagnetic Field and Optics	Z,ZK	4
	Electric field. Electric current. Magnetic field. Electromagnetic field. Optics. Basics of solid-state physics.		
11FYZ	Physics	Z,ZK	5
	Kinematics, dynamics, Newton's laws, force fields, mechanics of continuum, thermodynamics, introduction to electrostatics and ele		
11GIE	Geometry	KZ	3
Differential geomet	ry of curves - parameterization, the arc of the curve, torsion and curvature, Frenet's trihedron. Kinematics - a curve as a trajectory	of the motion, the v	elocity, and
	acceleration of a particle moving on a curved path.	_	
11LA	Linear Algebra	Z,ZK	3
I	ar combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and th	eir solvability. Deter	_
Vector spaces (linea		eir solvability. Deter ation.	_
Vector spaces (linear	ar combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and the their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classifications. Modeling of Systems and Processes	eir solvability. Determation.	minants and
Vector spaces (linear 11MSP System and subsyst	ar combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and the their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classifications. Modeling of Systems and Processes em, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differences.	eir solvability. Determation. Z,ZK rential and differentia	minants and 4 al equations
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Vector spaces (lines 11MSP System and subsyst Linear and nonli 11SCFZ 11SEMO 11STAT Basics of probabili 11X31 11X32	Ar combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and the their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classifications. Modeling of Systems and Processes em, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of difference in system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer funct Discretization of continuous systems. System interconnection. Seminar of Physics Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermoderance in the system of Electromagnetic Field and Optics Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics. Statistics ty Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Parama Regression and correlation analysis	eir solvability. Deterration. Z,ZK rential and differentiation. Stability of LTI s Z dynamics. Z Z,ZK etric tests Nonparar	4 al equations systems. 0 0 4 netric tests 2 2
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Vector spaces (lines 11MSP System and subsyst Linear and nonli 11SCFZ 11SEMO 11STAT Basics of probabili 11X31 11X32	Ar combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and the their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classifications. Modeling of Systems and Processes em, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differencer system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer funct Discretization of continuous systems. System interconnection. Seminar of Physics Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermore Seminar of Electromagnetic Field and Optics Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics. Statistics ty Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Parama Regression and correlation analysis Project 1 Project 2	eir solvability. Deterration. Z,ZK rential and differentiation. Stability of LTI s Z dynamics. Z Z,ZK etric tests Nonparar	4 al equations systems. 0 0 4 netric tests 2 2

			T -
12X33	Project 3	Z	2
14AP	Algorithm and Programming	KZ	4
	epresentation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, searching an pple, dictionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, inst		
data types (set, tu	programming	Toduction into obje	sci onenieu
14X31	Project 1	Z	2
14X32	Project 2	Z	2
14X33	Project 3	Z	2
15JP1A	Foreign Language - English for PIL 1	Z	2
	nguage skills within spoken and written form of the language with the focus on aviation English. Practice of comprehension of authen	_	_
•	fluency 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.		
15JP2A	Foreign Language - English for PIL 2	KZ	3
	nguage skills within spoken and written form of the language with the focus on aviation English. Practice of comprehension of authen	-	
pronunciation and	fluency of spoken language. Aviation phraseology in combination with general English. Revision and improvement of grammar struct	tures, syntax and	vocabulary.
45 170 4	Topics related to air transport and occupation of pilot and air staff.		
15JZ3A	Foreign Language - English 3 and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Faculty's	Z	3
	reptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral ar		
improvement in per	and their features; terminology.	id willion form. To	orninoar toxto
15JZ4A	Foreign Language - English 4	Z,ZK	3
	and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Faculty's	'	_
improvement in per	rceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral ar	nd written form. Te	chnical texts
	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
Fundamental legis	lative, definition of terms, risks and possible health damage, working conditions and health protection with focus on transportation. H	ealth protection pr	rogrammes,
45)/4511	health insurance of home and foreign business trips, statistics, working practice.		
15Y1EH	European Integration within Historical Context	KZ	2
	formation of new states. Europe and the powers, League of Nations. European policy in the 1920s. Fascism, nacism, communism. Lier Hitler's getting to power, system of bilateral agreements. Decline of the LN. Rearrangement of powers during WWII. Cold war and it		
goals. Europe and	New quality of French-German relationship - a driving power of starting European integration.	is consequences i	or Europe.
15Y1HE	Work Hygiene and Ergonomics in Traffic	KZ	2
	of occupational hygiene and ergonomics, and their application in transport. Working environment factors, and the influence of these		1
Creation and prote	ction of working conditions that do not damage public health. Mutual links: man-machine-environment. Adaptation of technology to po	ossibilities and skil	lls of a man.
	Practical examples from the field of transportation; relevant legislature.		
15Y1HL	History of Civil Aviation	KZ	2
	g, development of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of a amous aviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era of		
vvorid airports. Fa	arrious aviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1969. Classic era of aviation. Modern era of civil aviation. Airline companies. Supersonic flying.	aviation. Golden	era or civii
15Y1ZV	East-West dichotomy: Prelude to the Cold War	KZ	2
	evolution of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continui	l	1
	century and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the	-	
	Economic and financial history. Social changes. Discussions on texts, sources.		
16X31	Project 1	Z	2
16X32	Project 2	Z	2
16X33	Project 3	Z	2
17X31	Project 1	Z	2
17X32	Project 2	Z	2
17X33	Project 3	Z	2
17Y1LL	Logistics of Passenger and Freight Air Transport	KZ	2
Logistics airline pas	ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial trans	sport process pass	sengers and
	air cargo. Information systems in air transport. Global distribution systems.		
18X31	Project 1	Z	2
18X32	Project 2	Z	2
18X33	Project 3	Z	2
18Y1AM	Anatomy, Mobility and Safety of Man	KZ	2
•	natomical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation of muscular-skeletal system. Injury of human organs and musculo-skeletal system during traffic accidents. Mobility of ill and injured n	•	
and Diomechanics	of muscular-skeletal system. Injury of numan organs and musculo-skeletal system during traffic accidents. Mobility of ill and injured n joint prostheses. Protective means and traffic safety regulations.	ian anu ilis treatif	ieni. Human
18Y1EM	Experimental Methods in Mechanics	KZ	2
	ole of experimental mechanics. Sensors for mechanical testing. Overview of experimental methods. Destructive and non-destructive	1	1
	cedures and sample preparation. Tensile and bending tests. Electrical resistance strain gages. Optical based strain measurement. Fa	-	_
	Instrumented hardness testing. Introduction to electron microscopy. Errors in measurement.		
18Y1MT	Engineering Materials	KZ	2
	wy of main classes of materials used in technical design. In addition to main classes of materials, i. e. metals, ceramics, polymers and		ntion is paid
to biole	ogical materials and to biomimetics. Integral approach to material selection process is also demonstrated based on so called Ashby's	selection charts.	

18Y1PD			
	Computer Simulations in Transportation view of tools for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model developmen	KZ	2
•	tems. Assignment of material properties. The types of elements and their use. Discretization of solid model. Boundary conditions and	•	· '
40)/400	tasks of structural and modal analysis. Introduction to complex nonlinear problems.	1/7	
18Y1PS	Computer Simulations in Mechanics	KZ	2
•	view of tools for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model developmen tems. Assignment of material properties. The types of elements and their use. Discretization of solid model. Boundary conditions and	•	٠, ١
	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
This course supple	ements Learning objectives laid down in Commission Regulation (EU) No 1178/2011. Instrument flying introduction, threat and error	management, prod	cedures for
instrument departu	ures, enroute flight, holdings and arrivals, instrument approaches, performance based navigation, weather consideration, flight planni briefings, phraseology differences, lost communication procedures, CFIT prevention, decompresion	ng and monitoring	g, effective
21CON-E	Navigation Calculations	KZ	2
	s; times - UTC, Zulu, LT; positioning; sunrise and sunset; distance calculation; projection; maps and symbols; declination; speed; wind		
, ,	VFR route selection; position plotting.		,
21ELDO	Air Transport Economy	Z,ZK	3
21HAV-E	Weight and Balance of Aircraft	Z,ZK	3
1	and balance, basic aircraft masses, weighing and maximum aircrafts masses, overloading of aircraft, standard weights of passenger, back	,	
	t, flight documentation - loadsheet, trimsheet, securing of load, determination of centre of gravity, influence of centre of gravity position		
21IFRC	IFR Communication	KZ	2
Definitions, Terms, A	Abbreviations, Q-codes, Transport message categories, Transmission technique,, Transmission of letters, numbers, time and symbols,	Standard words a	and phrases
for IFR fligh	nts, Radar procedural phraseology, Standard phraseology and Morse code, Practical IFR radiotelephony procedures in normal and e	mergency situatio	ns.
21KPSL	Communication and Surveillance Systems in Aviation	ZK	3
The course acqua	aints students with communication and surveillance systems both from the perspective of the air segment (aircraft systems) and from	the perspective	of ground
	infrastructure (ground systems), which together create the necessary prerequisites for ensuring safe, efficient and economical air tr	ansport.	
21KSA	KSA Assessment	KZ	2
Communication. N	Management of flight path. Automation of flight. Leadership and teamwork. Problem solving. Decision making. Situation awarness. Wo	rkload managem	ent. Upset
	preventation and recovery training. Mental math.		
21LAP1	Aviation English for Professional Pilot 1	Z	2
	d on continuous reading specialized texts, vocabulary extension of technical English, terminology in the sphere of aircraft construction		ht, aircraft
	ngines, instruments and systems, analyzes relating to topics of air traffic, operational procedures, relevant legislation and operators p		
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 fluir airlines.	•	_
Exercises focused 21LCM		•	_
21LCM	airlines.	luent conversation	within the
21LCM Aircraft piston engi	airlines. Aircraft Engines	Z,ZK gine, theoretical ba	within the 3 ackground,
21LCM Aircraft piston engithermal cycles, co	airlines. Aircraft Engines ine, theoretical background, operational characteristics and construction schemes. Propellers, operational characterictics. Turbine enginestruction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics. Aircraft 1	Z,ZK gine, theoretical baracteristics. Engine	3 ackground, ne control.
21LCM Aircraft piston engithermal cycles, co	airlines. Aircraft Engines ine, theoretical background, operational characteristics and construction schemes. Propellers, operational characterictics. Turbine enginestruction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics.	Z,ZK gine, theoretical baracteristics. Engin Z,ZK tegorisation. Aircra	3 ackground, ne control.
21LCM Aircraft piston engi thermal cycles, co 21LDA1 Aircraft structural an	airlines. Aircraft Engines ine, theoretical background, operational characteristics and construction schemes. Propellers, operational characterictics. Turbine enginestruction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics. Aircraft 1 Ind conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and care	Z,ZK gine, theoretical baracteristics. Engli Z,ZK tegorisation. Aircrass.	3 ackground, ne control.
21LCM Aircraft piston engi thermal cycles, co 21LDA1 Aircraft structural an	airlines. Aircraft Engines Ine, theoretical background, operational characteristics and construction schemes. Propellers, operational characteristics. Turbine enginestruction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics. Aircraft 1 Ind conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and caracteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics. Turbojet engines, basic construction modules, and their operational characteristics. Turbojet engines, basic construction modules, and their operational characteristics. Turbojet engines, basic construction modules, and their operational characteristics. Turbojet engines, basic construction modules, and their operational characteristics. Turbojet engines, basic construction modules, and their operational characteristics. Turbojet engines, basic construction modules, and their operational characteristics. Turbojet engines, basic construction modules, and their operational characteristics. Turbojet engines, basic construction modules, and their operational characteristics. Turbojet engines, basic construction modules, and their operational characteristics.	Z,ZK gine, theoretical be aracteristics. Engine Z,ZK tegorisation. Aircres. Z,ZK dards. Static solidi	3 ackground, ne control. 3 aft loadings.
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21LCM Aircraft piston engi thermal cycles, co 21LDA1 Aircraft structural an 21LDA2 Manufacturers response Basic definitions Markings. Signs. Ma 21LEY1 Air Law; ICAO Doc 21LEY2 The course is focuse in detail File no. 9 21LILE Human factors in a 21LPTY-E 21LPTY-E 21LPX1 Practical exercise exercises, solo flig	Aircraft Engines ine, theoretical background, operational characteristics and construction schemes. Propellers, operational characteristics. Turbine engines truction schemes, operational characteristics. Turbine engines truction schemes, operational characteristics. Turbojet and turbodran engines, basic construction modules, and their operational characteristics. Turbojet and turbodran engines, basic construction modules, and their operational characteristics. Turbojet and turbodran engines, basic construction modules, and their operational characteristics. Turbojet and turbodran engines, basic construction modules, and their operational characteristics. Alicraft 1 Indicator of the problem. Development of requirements, aircraft definitions and carbodran engines, basic construction modules, and their operations and carbodran engines, basic construction modules, and their operations and carbodran engines, basic construction modules, and their operational characteristics. Alicraft 2 Indicator of the problem. Development of requirements, aircraft definitions and carbodran engines, basic construction problems. Aircraft 2 Indicator of primary and secondary airframe structure. Aircraft 2 Indicator of primary and secondary airframe structure. Aircraft 2 Indicator of primary and secondary airframe structure. Aircraft 2 Indicator of primary and secondary airframe structure. Aircraft 2 Indicator of primary and secondary airframe structure. Aircraft structure. Fatigue strength. Aircraft structure lifetime presum as structures. Aeroelasticity. Indicator aircraft structure. Fatigue strength. Aircraft structure indicator. Bighting systems. Visual aircraft structure. Fatigue strength. Aircraft structure of ending systems. Visual aircraft structure. Fatigue strength. Aircraft structure of ending systems. Visual aircraft structure. Aircraft str	Z,ZK gine, theoretical bearacteristics. Engin Z,ZK tegorisation. Aircriss. Z,ZK dards. Static solidination. Z,ZK kings of movements and approach slo ZK commission regul ZK to f EC regulations ansport and transport and transport electroies. ZK R flight KZ passics of flight cores related to Stud KZ	ackground, ne control. 3 aft loadings. 4 ty of aircraft 3 at areas. spe indicator 3 ation (EU) 3 and se, fatigue, 2 trol, dual y field PIL
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21LPX3	Flight Training 3	KZ	2
'	Deepening of theoretical knowledge and practical examination of progress in professional competence in pilot skills and knowledge		<u>'</u>
21LPX4	Flight Training 4 Deepening of theoretical knowledge and practical examination of progress in professional competence in pilot skills and knowle	KZ edge	2
21LPX5	Flight Training 5 Deepening of theoretical knowledge and practical examination of progress in professional competence in pilot skills and knowle	KZ	2
21LVIP	MCC - Multicrew Cooperation	KZ	2
	is in relation to human factor. MCC - basic principles, phases and methods within the area of air transport. CRM - leadership, situation		I
21MEE1	process, communication, effect of stress to the multi-crew performance, standard operational procedures, automation. Meteorology 1	Z.ZK	3
	indetection of the atmosphere. QNH, QFE, QFF, QNE, density and height measurements. Wind, moisture and adiabatic pro cloud, fog, haze. Precipitation. Types of air masses, atmospheric fronts. Distribution of pressure, cyclones, anticyclones, non-frontal	cesses. Creating	1
21MET2	Meteorology 2	Z,ZK	5
	ropical climatology, meteorological situation of mid-latitudes. Icing, turbulence, wind shear, thunderstorms, tornadoes, flying in the strategical climatology, meteorological situation of mid-latitudes. Icing, turbulence, wind shear, thunderstorms, tornadoes, flying in the strategical climatology. The control of the co		
210BN	General Navigation	ZK	5
	ا de and longitude. Reference systems. Circles on the Earth and distance. Calculations. Time. Magnetism and sirections. Wind and Spe		1
	ation computer conversions, TAS, rates. Calculations: 1 in 60 and navigation computer track and GS. Projections. Charts. VFR navigation display. Navigation in remote and oceanic areas.		
21PKL2-E	Advanced Flying 2	ZK	2
Learning objective	es are based on requirements laid down in Commission Regulation (EU) No 1178/2011, subjects 081 and 100. Multi engine aircraft al	nd jet aircraft cha	aracteristics
	ment, stabilized approach and landing errors, jet - performance - engine out flight, jet - handling - engine out flight go around, UPRT, operations, operation manuals, MEL procedures and deviations, flight time limitation	,	d weather
21PML-E	Flight Planning and Monitoring Flight planning for VFR flights for small, single- and multi-engine aeroplanes	Z,ZK	3
21PPY1-E	Operational Procedures 1 Annex 6, PART-OPS, Air operator, Aircraft operation, Operating procedures, Airplane equipment, Flight management, Airspa	Z,ZK	3
21PRJ2	Instrumentation 2	ZK	3
	pic 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.		_
21PRKP-E	Practical Flight Planning	Z,ZK	4
 mass and balance 	ce 2. fuel planning, PDP, RIF,RCF 3. ATC FPL 4. Preflight procedure and briefing-NOTAM + weather(METAR,SIGMET) 5. Jeppesen		
	ht planning- ICAO mapa, softwary 8. IFR flight planning- theory 9. PBN- RNAV, RNP 10. IFR flight planning- softwary 11. MRJT- OFP		
theory 7. VFR flig	ht 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	12. ETOPS a N	AT HLA 13.
theory 7. VFR flig	ht planning- ICAO mapa, softwary 8. IFR flight planning- theory 9. PBN- RNAV, RNP 10. IFR flight planning- softwary 11. MRJT- OFP	12. ETOPS a N	AT HLA 13.
theory 7. VFR flig	ht 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 ation and manuals, Icing and protection of the aircraft against icing, noise abatement procedures, Abnormal and emergency situation	12. ETOPS a N	AT HLA 13.
21PRY2-E Flight documenta 21PUP1 Basic constructio	ht 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 ation 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 we measurement, torque and EPR measurement), indication in other aircraft systems (position, fire and icing indication, vibration more	ZK s and procedure ZK gauges, thermore	3 s, Runway 3 neters, fuel
21PRY2-E Flight documenta 21PUP1 Basic constructio juantity and fuel flo	ht 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 ation and manuals, Icing and protection of the aircraft against icing, noise abatement procedures, Abnormal and emergency situation contamination Instrumentation 1 In principles of instrumentation, electronic displays, basics of measurement - sensitivity and errors, engine instrumentation (pressure we measurement, torque and EPR measurement), indication in other aircraft systems (position, fire and icing indication, vibration more monitoring, aerometric instruments (sensors, altimeter, air speed indicator, VSI, ADC).	ZK as and procedure ZK gauges, thermore intering, pressuris	AT HLA 13. 3 s, Runway 3 neters, fuel sation syste
21PRY2-E Flight documenta 21PUP1 Basic constructio quantity and fuel flo 21RNV Ground direction fin	ht 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 ation and manuals, Icing and protection of the aircraft against icing, noise abatement procedures, Abnormal and emergency situation contamination Instrumentation 1 In principles of instrumentation, electronic displays, basics of measurement - sensitivity and errors, engine instrumentation (pressure we measurement, torque and EPR measurement), indication in other aircraft systems (position, fire and icing indication, vibration more monitoring, aerometric instruments (sensors, altimeter, air speed indicator, VSI, ADC). Radionavigation inder (VDF), ADF, VOR and Doppler VOR, DME, ILS, MLS, ground ATC radar, weather Radar, SSR and transponder. Radar utilization (NAV) - general philosophy, gauges and equipment, indication and sensors for RNAV, VOR/DME (RNAV). Autopilot and flight director.	ZK as and procedure ZK gauges, thermore intoring, pressuris Z,ZK for navigation du	3 s, Runway 3 neters, fuel sation syste 4 tring the fligh
21PRY2-E Flight documenta 21PUP1 Basic constructio quantity and fuel flo 21RNV Ground direction fin Area navigation (R	ht 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 ation and manuals, Icing and protection of the aircraft against icing, noise abatement procedures, Abnormal and emergency situation contamination Instrumentation 1 In principles of instrumentation, electronic displays, basics of measurement - sensitivity and errors, engine instrumentation (pressure we measurement, torque and EPR measurement), indication in other aircraft systems (position, fire and icing indication, vibration more monitoring, aerometric instruments (sensors, altimeter, air speed indicator, VSI, ADC). Radionavigation ider (VDF), ADF, VOR and Doppler VOR, DME, ILS, MLS, ground ATC radar, weather Radar, SSR and transponder. Radar utilization (NAV) - general philosophy, gauges and equipment, indication and sensors for RNAV, VOR/DME (RNAV). Autopilot and flight director. and backups.	ZK s and procedure ZK gauges, thermor itoring, pressuris Z,ZK for navigation du Satellite navigat	3 s, Runway 3 meters, fuel sation system 4 ring the fliglion, system
21PRY2-E Flight documenta 21PUP1 Basic constructio quantity and fuel flo 21RNV Ground direction fin Area navigation (R 21SBU1 Types of thesis (rev	ht 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 ation and manuals, Icing and protection of the aircraft against icing, noise abatement procedures, Abnormal and emergency situation contamination Instrumentation 1 In principles of instrumentation, electronic displays, basics of measurement - sensitivity and errors, engine instrumentation (pressure of measurement, torque and EPR measurement), indication in other aircraft systems (position, fire and icing indication, vibration more monitoring, aerometric instruments (sensors, altimeter, air speed indicator, VSI, ADC). Radionavigation INAV) - general philosophy, gauges and equipment, indication and sensors for RNAV, VOR/DME (RNAV). Autopilot and flight director. and backups. Bachelor Thesis Seminar 1 iew, applied research, basic research, thesis dealing with design proposals). Working with citation sources (citation sources, citation of the procedures of the planning procedures and packups.	ZK s and procedure ZK gauges, thermore itoring, pressure Z,ZK for navigation du Satellite navigat Z databases, citatio	3 s, Runway 3 meters, fuel sation system 4 ring the flightion, system 1
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21PRY2-E Flight documenta 21PUP1 Basic construction quantity and fuel flour services and services are services as a service service service services and services are services are services and services are services	ht 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 ation and manuals, Icing and protection of the aircraft against icing, noise abatement procedures, Abnormal and emergency situation contamination Instrumentation 1 In principles of instrumentation, electronic displays, basics of measurement - sensitivity and errors, engine instrumentation (pressure of measurement, torque and EPR measurement), indication in other aircraft systems (position, fire and icing indication, vibration more monitoring, aerometric instruments (sensors, altimeter, air speed indicator, VSI, ADC). Radionavigation INAV) - general philosophy, gauges and equipment, indication and sensors for RNAV, VOR/DME (RNAV). Autopilot and flight director. and backups. Bachelor Thesis Seminar 1 iew, applied research, basic research, thesis dealing with design proposals). Working with citation sources (citation sources, citation of the procedures of the planning procedures and packups.	ZK s and procedure ZK gauges, thermor intoring, pressuris Z,ZK for navigation du Satellite navigat Z databases, citatic is methodology. Z Is and methods,	3 s, Runway 3 meters, fuel sation syste 4 ring the flightion, system 1 un styles, ho
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21Y1BS	Unmanned aircraft systems 1	KZ	2
Jnmanned Aviation I	Development. Aircraft design. Legislation in force in the Czech Republic. Planning and execution of the flight. Airspace division. Ope procedures. Practical flights.	rational risks and	doperational
21Y1MP	Matlab for project-oriented study	KZ	2
Γhe subject's syllabu	us is focused on the problem-solving during bachelor's thesis preparation and it is based on students' requests. Individual exercises	will be prepared	according to
particular examples	s, based on actual students' needs and suggestions. The subject will have a flexible form, which is expected to bring an improvemen	nt of students' M	atlab skills.
21Y1OH	Airline Business and Operations	KZ	2
he course provides a	a comprehensive view of the commercial, operational and transportation activities of air transport companies. It focuses on the organiza	ational structure	of companies
arious aspects of the	eir strategy, economic and operational indicators. It introduces students in detail to operational processes and the essentials of transp	ortation process	es. It provide:
	a basic view of the economic aspects of air transport.		
21Y1RZ	Human Resources Management	KZ	2
The position of hu	ıman resources in the organization and related disciplines file. Substance, importance and challenges of human resources manageı	ment. Internal an	d external
			f Docitioning
nvironment of huma	In resource management. Human resource planning. Search, recruitment and selection of employees. Motivation, evaluation and rem	uneration of stat	i. Positioning
	dismissal and redundancies of employees. Education of employees. Planning career management.		
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21ZYT1 Aerodynamic drag, re	dismissal and redundancies of employees. Education of employees. Planning career management. Principles of Flight 1 elation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and preving 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	Z,ZK essures around v	3
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For updated information see http://bilakniha.cvut.cz/en/FF.html Generated: day 2025-06-13, time 14:31.