Study plan

Name of study plan: Bachelor PIL (CS) Full-Time from 2023/24

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: 176 Elective courses credits: 4 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.

Note on the group	5.					
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.)	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 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-	order differential equations, linear differential equations.							
11LA	Linear Algebra	Z,ZK	3					
Vector spaces (linear co	mbinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and	their solvability. D	eterminants 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	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.	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

KZ
3

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

Z 2

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:

	Name of the course / Name of the group of courses					
Code	(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+20E	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+12E	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	tions and their systems, differential calculus of functions of several real variables. Riemann integral in Rn. Line and surface in	egrals.	
11STAT	Statistics	Z,ZK	4
Basics of probability D	escriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Param	etric tests Nonpara	metric 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 crew	, determination
of load of aircraft, fligh	documentation - loadsheet, trimsheet, securing of load, determination of centre of gravity, influence of centre of gravity position	on on aircarft perfor	rmance.
21LDA1	Aircraft 1	Z,ZK	3
Aircraft structural and	conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and	d categorisation. Air	rcraft loadings.
0			
Systems of primary ar	d secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topics.		
21LEY1	d secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topics. Air Law 1	ZK	3
21LEY1			•
21LEY1	Air Law 1		•
21LEY1 Air Law; ICAO Doc 73	Air Law 1		•
21LEY1 Air Law; ICAO Doc 73 965/2012. 21ZYT1	Air Law 1 00; ICAO Doc 7500 and 9626; International Organizations: ICAO, IATA, EASA, EUROCONTROL; airworthiness; ICAO Annexes	s; Commission regu	ulation (EU)
21LEY1 Air Law; ICAO Doc 73 965/2012. 21ZYT1 Aerodynamic drag, rel	Air Law 1 00; ICAO Doc 7500 and 9626; International Organizations: ICAO, IATA, EASA, EUROCONTROL; airworthiness; ICAO Annexes Principles of Flight 1	z,ZK I pressures around	Jation (EU) 3 wing, angle of
21LEY1 Air Law; ICAO Doc 73 965/2012. 21ZYT1 Aerodynamic drag, rel	Air Law 1 00; ICAO Doc 7500 and 9626; International Organizations: ICAO, IATA, EASA, EUROCONTROL; airworthiness; ICAO Annexes Principles of Flight 1 ation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and	z,ZK I pressures around	Jation (EU) 3 wing, angle of
21LEY1 Air Law; ICAO Doc 73 965/2012. 21ZYT1 Aerodynamic drag, rel attack, reactions of wire	Air Law 1 00; ICAO Doc 7500 and 9626; International Organizations: ICAO, IATA, EASA, EUROCONTROL; airworthiness; ICAO Annexes Principles of Flight 1 ation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and	z,ZK I pressures around	Jation (EU) 3 wing, angle of

pronunciation and fluency of spoken language. Aviation phraseology in combination with general English. Revision and improvement of grammar structures, syntax and vocabulary.

21CON-E	Navigation Calculations	KZ	2
Projection of maps; time	s - UTC, Zulu, LT; positioning; sunrise and sunset; distance calculation; projection; maps and symbols; declination; speed; wi	nd components a	nd wind drift;
VFR route selection; po	sition 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 ar	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 St	udy field PIL
(Professional Pilot) in al	I three years.		
21LAP1	Aviation English for Professional Pilot 1	Z	2
Exercises focused on co	ontinuous reading specialized texts, vocabulary extension of technical English, terminology in the sphere of aircraft construct	ion, principles of f	light, aircraft
engines, instruments ar	d 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

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) from 2024/25

from 2024/25	v i ,		, ,
11FYZ	Physics	Z,ZK	5
Kinematics, dynamic	s, 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 or	repetition and smoother communication within VFR and IFR communication, communication with technical staff at the airport,	a fluent conversa	tion within the
airlines.			
21LDA2	Aircraft 2	Z,ZK	4
Manufacturers respo	nsibility, responsibilities of operator and professional supervising. Legislation in area of airworthiness. International and national	standards. Static s	solidity of aircraft
structures. Aeroelast	city. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presumption.		
21LPTY-E	Aircraft Operations	ZK	2
Aircraft oepration for	cruise, approach, final approach, missed approach, hodling, PBN, augmented GNSS, aviation charts for IFR flight		
21PUP1	Instrumentation 1	ZK	3
Basic construction pr	inciples of instrumentation, electronic displays, basics of measurement - sensitivity and errors, engine instrumentation (pressur	e gauges, thermo	meters, fuel
quantity and fuel flow	measurement, torque and EPR measurement), indication in other aircraft systems (position, fire and icing indication, vibration	monitoring, press	urisation system
monitoring, aerometr	ic instruments (sensors, altimeter, air speed indicator, VSI, ADC).		
21RNV	Radionavigation	Z,ZK	4
	er (VDF), ADF, VOR and Doppler VOR, DME, ILS, MLS, ground ATC radar, weather Radar, SSR and transponder. Radar utilizat	-	
,	AV) - general philosophy, gauges and equipment, indication and sensors for RNAV, VOR/DME (RNAV). Autopilot and flight direction	tor. Satellite navig	ation, systems
and backups.			
21VL-E	Aircraft Performance	Z,ZK	4
	t performance, basic characteristic speeds, runway characteristics, single and multiengine aircraft performance class B, aircraft	performance class	s A, take off and
landing performance	after take off and missed approach climb, noise abatement procedures, range of aircraft, drift down, MEL, ETOPS.		
21LPX2	Flight Training 2	KZ	2
	r improvement of theoretical knowledge in a range MEP land and IFR from the relevant subjects in accordance with Part FCL.		, ,
· · · · · · · · · · · · · · · · · · ·	gency procedures, descents and navigation flights. This course is intended only for long-term student, who are in integrated pilo	ots training and stu	udy all courses
related to Study field	PIL (Professional Pilot) in all three years.		

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 Zuzana Malá (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	ght planning and monitoring	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 ad	liabatic processes. Creatin	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, v	warning systems (TCAS, (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	i 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 are	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	I emergency situations.	
21LPX3	Flight Training 3	KZ	2
Deepening of the	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 n	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-23/24

Name of the group: 5th Sem. Bachelor Full-Time PIL (CS) from 2023/24 Requirement credits in the group: In this group you have to gain 26 credits

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

Credits in the group: 26 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
21LTP2	Air Law 2 Radoslav Zozu ák Radoslav Zozu ák	Z,ZK	3	3P+0C	Z	Z
21MET2	Meteorology 2 Iveta Kameníková Iveta Kameníková	Z,ZK	5	2P+2C	L,Z	Z
21PKL2	Advanced Flying 2 Viktor Valenta Viktor Valenta	ZK	2	2P+0C	Z	Z
21PPY1	Operational Procedures 1 Ladislav Capoušek Ladislav Capoušek	Z,ZK	3	2P+1C	Z	Z
21PRKP	Practical Flight Planning Anna Polánecká, Jakub Hospodka Jakub Hospodka	Z,ZK	4	2P+2C	Z	Z
21ZKL2	Principles of Flight 2 P emysl Vávra, Jakub Trýb Jakub Trýb	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
21SBP	Bachelor's Thesis Seminar Vladimír Socha, Lenka Hanáková, Marta Urbanová Marta Urbanová	Z	1	0P+1C	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=5S-BP-PIL-CS-23/24 Name=5th Sem. Bachelor Full-Time PIL (CS) from 2023/24

5JZ3A Foreigr	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 f	aculty's fields of study r	oilot. Focus o
nprovement in perceptive and co	mmunicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in bo	th oral and written form.	Technical tex
nd their features; terminology.			
1LTP2 Air Law	2	Z,ZK	3
he course is focused on the issue	of commercial commercial air transport in accordance with applicable European legislation. Within the course,	the issue of EC regulation	ons is analyz
n detail File no. 965/2012, regulat	ion no. 1321/2014 and ICAO Annexes, which significantly affect the form, method and structure of commercia	l air transport and trans	portation.
1MET2 Meteor	ology 2	Z,ZK	5
	y, meteorological situation of mid-latitudes. Icing, turbulence, wind shear, thunderstorms, tornadoes, flying in	the stratosphere, mount	ain areas,
educing visibility phenomena. Ob	servation, weather maps, important information for flight planning.		
1PKL2 Advance	ed Flying 2	ZK	2
earning objectives are based on	requirements laid down in Commission Regulation (EU) No 1178/2011, subjects 081 and 100. Multi engine a	ircraft and jet aircraft ch	aracteristics,
nergy management, stabilized a	proach and landing errors, jet - performance - engine out flight, jet - handling - engine out flight go around, U	PRT, volcanic ash, cold	weather
perations, operation manuals, M	EL procedures and deviations, flight time limitation		
1PPY1 Operat	onal Procedures 1	Z,ZK	3
nnex 6, PART-OPS, Air operator,	Aircraft operation, Operating procedures, Airplane equipment, Flight management, Airspace	, ,	
1PRKP Practic	al Flight Planning	Z,ZK	4
. mass and balance 2. fuel plann	ng, PDP, RIF,RCF 3. ATC FPL 4. Preflight procedure and briefing-NOTAM + weather(METAR,SIGMET) 5. Je	ppesen charts 6. VFR fl	ight planning
neory 7. VFR flight planning- ICA	D mapa, softwary 8. IFR flight planning- theory 9. PBN- RNAV, RNP 10. IFR flight planning- softwary 11. MRJ	T- OFP 12. ETOPS a NA	AT HLA 13.
ET, PSR, PNR 14. practical VFR	a IFR flight planning		
21ZKL2 Princip	les of Flight 2	ZK	3
tatic & dynamic longitudinal	stability, neutral point, location of centre of gravity, static directional & amp; lateral stability, dynamic directional	I & amp; lateral stability,	control pitch
ongitudinal), yaw (directional) &a	mp; roll (lateral), roll/yaw interaction, trimming, speed of sound, Mach number, compressibility, shock waves,	critical Mach number, ac	erodynamic
eating, operating limitations, mar	oeuvring envelope, gust-load diagram.		
21LPX4 Flight T	raining 4	KZ	2
eepening of theoretical knowled	ge and practical examination of progress in professional competence in pilot skills and knowledge		
1SBP Bachel	or's Thesis Seminar	Z	1
		1 1	
Vork with information sources. Ci	ation, citation formats. The methodology of writing the thesis. Presentation of results. Formal requirements fo	thesis. Presentation of	thesis.

Code of the group: 6S-BP-PIL-CS-23/24

Name of the group: 6th Sem. Bachelor Full-Time PIL (CS) from 2023/24 Requirement credits in the group: In this group you have to gain 26 credits

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

Credits in the group: 26 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
21KPSL	Communication and Surveillance Systems in Aviation Stanislav Pleninger Stanislav Pleninger	ZK	3	2P+0C	L	Z
21KSAV	KSA Assessment Radoslav Zozu ák Radoslav Zozu ák	Z,ZK	2	0P+2C	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
21PPY2	Operational Procedures 2 Ladislav Capoušek Ladislav Capoušek	ZK	4	3P+0C	L	Z
14AP	Algorithm and Programming Vít Fábera, Michal Je ábek Michal Je ábek Vít Fábera (Gar.)	KZ	4	2P+2C	L	Z
21LPX5	Flight Training 5 Iveta Kameníková, Jakub Hospodka	KZ	2	0P+1C	L	Z
21LVPK	MCC - Multicrew Cooperation Vladislav Pružina	Z	2	2P+1C	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=6S-BP-PIL-CS-23/24 Name=6th Sem. Bachelor Full-Time PIL (CS) from 2023/24

	Algorithm and Programming	KZ	4
Computers, data re	presentation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, searching	g and sorting algor	ithms, abstract
data types (set, tup	ple, dictionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, i	instroduction into	object oriented
programming			
15JZ4A	Foreign Language - English 4	Z,ZK	3
Grammar structure	and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Facul	ity's fields of study	- pilot. Focus o
mprovement in per-	ceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both or	al and written form	n. Technical text
and their features; t	erminology.		
21KPSL	Communication and Surveillance Systems in Aviation	ZK	3
The course acquair	its students with communication and surveillance systems both from the perspective of the air segment (aircraft systems) and fro	om the perspective	e of ground
nfrastructure (groun	nd systems), which together create the necessary prerequisites for ensuring safe, efficient and economical air transport.		
21KSAV	KSA Assessment	Z,ZK	2
Communication. Ma	anagement of flight path. Automation of flight. Leadership and teamwork. Problem solving. Decision making. Situation awarness.	Workload manage	ment. Upset
preventation and re	covery training. Mental math.		
21LCM	Aircraft Engines	Z.ZK	3
Aircraft piston engir	ne, theoretical background, operational characteristics and construction schemes. Propellers, operational characterictics. Turbine	1 '	_
		e engine, theoretica	al background,
	ne, theoretical background, operational characteristics and construction schemes. Propellers, operational characterictics. Turbine	e engine, theoretica	al background,
thermal cycles, con	ne, theoretical background, operational characteristics and construction schemes. Propellers, operational characterictics. Turbine struction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational	e engine, theoretica characteristics. Er	al background, ngine control.
thermal cycles, con 21LEIS Basic definitions. Ap	ne, theoretical background, operational characteristics and construction schemes. Propellers, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational Aerodromes	e engine, theoretica characteristics. Er Z,ZK rkings of movemen	al background, ngine control. 3 nt areas.
thermal cycles, con 21LEIS Basic definitions. Ap Markings. Signs. Ma	ne, theoretical background, operational characteristics and construction schemes. Propellers, operational characterictics. Turbine struction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational Aerodromes oplicability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mai	e engine, theoretica characteristics. Er Z,ZK rkings of movemen	al background, ngine control. 3 nt areas.
thermal cycles, con 21LEIS Basic definitions. Ap Markings. Signs. Ma systems. Runway lig	ne, theoretical background, operational characteristics and construction schemes. Propellers, operational characteristics. Turbine struction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational Aerodromes Aerodromes Oplicability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mararkers. Visual aids for denoting obstacles. Obstacle restriction, removal. Visual aids for navigation, lights, approach lighting system	e engine, theoretica characteristics. Er Z,ZK rkings of movemen	al background, ngine control. 3 nt areas.
thermal cycles, con 21LEIS Basic definitions. Ap Markings. Signs. Ma systems. Runway lig 21PPY2	ne, theoretical background, operational characteristics and construction schemes. Propellers, operational characterictics. Turbine struction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational Aerodromes oplicability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mararkers. Visual aids for denoting obstacles. Obstacle restriction, removal. Visual aids for navigation, lights, approach lighting system other. Taxiway lights. Visual aids for denoting obstacles.	e engine, theoretica characteristics. Er Z,ZK rkings of movements. Visual approact	al background, ngine control. 3 nt areas. h slope indicate
thermal cycles, con 21LEIS Basic definitions. Ap Markings. Signs. Ma systems. Runway lig 21PPY2	ne, theoretical background, operational characteristics and construction schemes. Propellers, operational characterictics. Turbine struction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational Aerodromes Aerodromes Oplicability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mararkers. Visual aids for denoting obstacles. Obstacle restriction, removal. Visual aids for navigation, lights, approach lighting system ophts. Taxiway lights. Visual aids for denoting obstacles. Operational Procedures 2	e engine, theoretica characteristics. Er Z,ZK rkings of movements. Visual approact	al background, ngine control. 3 nt areas. h slope indicato
thermal cycles, con 21LEIS Basic definitions. Ap Markings. Signs. Ma systems. Runway lig 21PPY2 Flight documentation	ne, theoretical background, operational characteristics and construction schemes. Propellers, operational characterictics. Turbine struction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational Aerodromes Aerodromes Oplicability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mararkers. Visual aids for denoting obstacles. Obstacle restriction, removal. Visual aids for navigation, lights, approach lighting system ophts. Taxiway lights. Visual aids for denoting obstacles. Operational Procedures 2	e engine, theoretica characteristics. Er Z,ZK rkings of movements. Visual approact	al background, ngine control. 3 nt areas. h slope indicate
thermal cycles, con 21LEIS Basic definitions. Ap Markings. Signs. Ma systems. Runway lig 21PPY2 Flight documentation 21LPX5	ne, theoretical background, operational characteristics and construction schemes. Propellers, operational characterictics. Turbine struction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational Aerodromes Opticability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Marakers. Visual aids for denoting obstacles. Obstacle restriction, removal. Visual aids for navigation, lights, approach lighting system optics. Taxiway lights. Visual aids for denoting obstacles. Operational Procedures 2 on and manuals, Icing and protection of the aircraft against icing, noise abatement procedures, Abnormal and emergency situation.	e engine, theoretics characteristics. Er Z,ZK rkings of movements. Visual approach ZK ons and procedure	al background, ngine control. 3 nt areas. h slope indicate 4 s, Runway
thermal cycles, con 21LEIS Basic definitions. Ap Markings. Signs. Ma systems. Runway lig 21PPY2 Flight documentation contamination 21LPX5 Deepening of theore	ne, theoretical background, operational characteristics and construction schemes. Propellers, operational characterictics. Turbine struction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational Aerodromes oplicability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Maiarkers. Visual aids for denoting obstacles. Obstacle restriction, removal. Visual aids for navigation, lights, approach lighting system ophs. Taxiway lights. Visual aids for denoting obstacles. Operational Procedures 2 In and manuals, Icing and protection of the aircraft against icing, noise abatement procedures, Abnormal and emergency situation. Flight Training 5 etical knowledge and practical examination of progress in professional competence in pilot skills and knowledge	e engine, theoretics characteristics. Er Z,ZK rkings of movements. Visual approach ZK ons and procedure	al background, ngine control. 3 nt areas. h slope indicate 4 s, Runway
thermal cycles, con 21LEIS Basic definitions. Ap Markings. Signs. Ma systems. Runway lig 21PPY2 Flight documentation contamination 21LPX5 Deepening of theore 21LVPK	ne, theoretical background, operational characteristics and construction schemes. Propellers, operational characterictics. Turbine struction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational Aerodromes Oplicability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mararkers. Visual aids for denoting obstacles. Obstacle restriction, removal. Visual aids for navigation, lights, approach lighting system ophis. Taxiway lights. Visual aids for denoting obstacles. Operational Procedures 2 on and manuals, Icing and protection of the aircraft against icing, noise abatement procedures, Abnormal and emergency situation. Flight Training 5	e engine, theoretical characteristics. Er Z,ZK rkings of movements. Visual approach ZK ons and procedure KZ	al background, ngine control. 3 nt areas. h slope indicate 4 es, Runway 2

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

The role of the block: ZP

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 Milan K íž, Václav Baroch, Daniel Pilát, Michal Drábek, Alexandra Dvo á ková, Veronika Faifrová, Rudolf Franz Heidu, Tomáš Horák, Vít Janoš,	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	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 Milan Kameník, Iveta Kameníková, Viktor Valenta, Lenka Hanáková, Stanislav Pleninger, Slobodan Stoji , Andrej Lališ, Terézia Pilmannová, Natalia Guskova,	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: 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

Onlar acteristics of	the courses of this group of olddy Flant. Code=VI Bi Tile oo Hame-Bachelor I dii Time I	1E (00) Void	iliai y
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 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
11CAL1	Calculus 1	Z,ZK	7
Sequence of real n	umbers and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative. Indefinite integral, Newton integral	al, Riemann integr	al, improper
	Riemann integral. First-order differential equations, linear differential equations.		
11CAL2	Calculus 2	Z,ZK	5
	r differential equations and their systems, differential calculus of functions of several real variables. Riemann integral in Rn. Line and s		
11EMO	Electromagnetic Field and Optics	Z,ZK	4
4457	Electric field. Electric current. Magnetic field. Electromagnetic field. Optics. Basics of solid-state physics.	Z,ZK	5
11FYZ	Physics Kinematics, dynamics, Newton's laws, force fields, mechanics of continuum, thermodynamics, introduction to electrostatics and electr	′ '	5
11GIE	Geometry	KZ	3
	Geometry etry of curves - parameterization, the arc of the curve, torsion and curvature, Frenet`s trihedron. Kinematics - a curve as a trajectory of		_
Zinoromiai goomi	acceleration of a particle moving on a curved path.		oroony, arra
11LA	Linear Algebra	Z,ZK	3
Vector spaces (line	ear combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and their	solvability. Deterr	minants and
	their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classification	n.	
11SCFZ	Seminar of Physics	Z	0
	Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodyn		
11SEMO	Seminar of Electromagnetic Field and Optics	Z	0
	Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.		
11STAT	Statistics	Z,ZK	4
basics of probabi	lity Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Parametr Regression and correlation analysis	ic tests Nonparan	netric tests
11X31		Z	2
11X31 11X32	Project 1	Z	2
	Project 2		
11X33	Project 3	Z	2
12X31	Project 1	Z	2
12X32	Project 2	Z	2
4-14			
12X33	Project 3	Z	2
14AP	Algorithm and Programming	KZ	4
14AP Computers, data	Algorithm and Programming epresentation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, searching and	KZ d sorting algorithm	4 ns, abstract
14AP Computers, data	Algorithm and Programming representation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, searching and pple, dictionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, instr	KZ d sorting algorithm	4 ns, abstract
14AP Computers, data data types (set, to	Algorithm and Programming representation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, searching and pple, dictionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, instructions are programming	KZ d sorting algorithm	4 ns, abstract ct oriented
14AP Computers, data data types (set, tu	Algorithm and Programming epresentation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, searching and pople, dictionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, instructions programming Project 1	KZ d sorting algorithm oduction into obje	4 ns, abstract ct oriented 2
14AP Computers, data data types (set, tu 14X31 14X32	Algorithm and Programming epresentation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, searching and popular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, instructions are procedured.	KZ d sorting algorithm roduction into obje Z Z	4 ns, abstract ct oriented 2 2
14AP Computers, data data types (set, to 14X31 14X32 14X33	Algorithm and Programming epresentation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, searching and pple, dictionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, instructions and procedures, which i	KZ d sorting algorithm roduction into obje Z Z Z	4 ns, abstract ct oriented 2 2 2
14AP Computers, data data types (set, tu 14X31 14X32 14X33 15JP1A	Algorithm and Programming epresentation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, searching and pple, dictionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, instructionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, instructionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, instructionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, instructionary). Project 1 Project 2 Project 3 Foreign Language - English for PIL 1	KZ d sorting algorithm oduction into obje Z Z Z Z Z	4 ns, abstract ct oriented 2 2 2 2 2
14AP Computers, data types (set, tutal types (set, tutal types (set) tutal types (se	Algorithm and Programming epresentation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, searching and pple, dictionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, instructions and procedures, which i	KZ d sorting algorithm roduction into obje Z Z Z Z tic materials. Impre	4 ns, abstract ct oriented 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
14AP Computers, data types (set, tutal types (set, tutal types (set) tutal types (se	Algorithm and Programming epresentation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, searching and pple, dictionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, instructionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, instructionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, instructionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working and programming Project 1 Project 2 Project 3 Foreign Language - English for PIL 1 Inguage skills within spoken and written form of the language with the focus on aviation English. Practice of comprehension of authent of the spoken language. Aviation phraseology in combination with general English. Revision and improvement of grammar structure. Topics related to air transport and occupation of pilot and air staff.	KZ d sorting algorithm roduction into obje Z Z Z Z tic materials. Impre	4 ns, abstract ct oriented 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
14AP Computers, data types (set, tutal types (set, tutal types (set) tutal types (se	Algorithm and Programming epresentation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, searching and pple, dictionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, instructionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, instructionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, instructionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working	KZ d sorting algorithm roduction into obje Z Z Z Z tic materials. Impre	4 ns, abstract ct oriented 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
14AP Computers, data data types (set, tut) 14X31 14X32 14X33 15JP1A Improvement of lapronunciation and	Algorithm and Programming epresentation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, searching and pple, dictionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, instructionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, instructionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, instructionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working and programming Project 1 Project 2 Project 3 Foreign Language - English for PIL 1 Inguage skills within spoken and written form of the language with the focus on aviation English. Revision and improvement of grammar structure. Topics related to air transport and occupation of pilot and air staff. Foreign Language - English for PIL 2 Inguage skills within spoken and written form of the language with the focus on aviation English. Practice of comprehension of authent	KZ d sorting algorithm oduction into object of the control of the	4 as, abstract ct oriented 2 2 2 2 overment of rocabulary. 3 overment of
14AP Computers, data data types (set, tut) 14X31 14X32 14X33 15JP1A Improvement of lapronunciation and	Algorithm and Programming epresentation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, searching and pple, dictionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, instructionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, instructionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, instructionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working and procedures, functions and procedures, working and procedures, functions and procedures, functions and procedures, f	KZ d sorting algorithm oduction into object of the control of the	4 as, abstract ct oriented 2 2 2 2 overment of rocabulary. 3 overment of
14AP Computers, data data types (set, tut) 14X31 14X32 14X33 15JP1A Improvement of lapronunciation and pronunciation and	Algorithm and Programming epresentation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, searching and pple, dictionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, instructionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, instructionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working and programming Project 1 Project 2 Project 3 Foreign Language - English for PIL 1 Inguage skills within spoken and written form of the language with the focus on aviation English. Practice of comprehension of authent of the language of the process related to air transport and occupation of pilot and air staff. Foreign Language - English for PIL 2 Inguage skills within spoken and written form of the language with the focus on aviation English. Practice of comprehension of authent of the language with the focus on aviation English. Practice of comprehension of authent of the language and process related to air transport and occupation of pilot and air staff.	KZ d sorting algorithm oduction into object of the control of the	4 as, abstract ct oriented 2 2 2 2 overment of rocabulary. 3 overment of rocabulary.
14AP Computers, data data types (set, tut) 14X31 14X32 14X33 15JP1A Improvement of lapronunciation and pronunciation and pronunciation and 15JP2A Improvement of lapronunciation and 15JZ3A	Algorithm and Programming epresentation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, searching and pple, dictionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, instructionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, instructionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working and pple, dictionary), regular expressions, libraries to process date and time, set arrays, functions to Python language, lists, searching and pple, dictionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working and pple, and procedures, working and procedures, working and procedures, working and pprogramming and pple, dictionary), regular expressions, libraries to project 1 Project 2 Project 3 Foreign Language with the focus on aviation English. Revision and improvement of grammar structures and procedures, working and procedures, working and authentification phraseology in combination with general English. Practice of comprehension of authent and space and written form of the language with the focus on aviation English. Practice of comprehension of authent and fluency of spoken language. Aviation phraseology in combination with general English. Revision and improvement of grammar structures are project and occupation of pilot and air staff. Foreign Language - English 3	KZ d sorting algorithm roduction into object of the control of the	4 as, abstract ct oriented 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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20X32	•		2
	Project 2	Z	2
	Project 3	Z	2
21AFL1-E	Advanced Flying 1	Z,ZK	3
l l	mmission Regulation (EU) No 1178/2011. Instrument flying introduction, threat and		edures for
	astrument approaches, performance based navigation, weather consideration, flight	t planning and monitoring	j, effective
	y differences, lost communication procedures, CFIT prevention, decompresion	1/7	
21CON-E	Navigation Calculations e and sunset; distance calculation; projection; maps and symbols; declination; spee	KZ KZ	2 wind drift:
Projection of maps, times - 010, Zuiu, E1, positioning, surinse	VFR route selection; position plotting.	d, willd components and	wind drift,
21HAV-E	Weight and Balance of Aircraft	Z,ZK	3
<u> </u>	g and maximum aircrafts masses, overloading of aircraft, standard weights of passen		etermination
	et, securing of load, determination of centre of gravity, influence of centre of gravity		
21IFRC	IFR Communication	KZ	2
	categories, Transmission technique,, Transmission of letters, numbers, time and sy d phraseology and Morse code, Practical IFR radiotelephony procedures in norma	•	•
	nication and Surveillance Systems in Aviation	ZK	3
l l	veillance systems both from the perspective of the air segment (aircraft systems) a		_
·	gether create the necessary prerequisites for ensuring safe, efficient and economic		
21KSAV	KSA Assessment	Z,ZK	2
Communication. Management of flight path. Automation of flight	ght. Leadership and teamwork. Problem solving. Decision making. Situation awarne	ess. Workload manageme	ent. Upset
241 AD4	preventation and recovery training. Mental math.		2
l l	viation English for Professional Pilot 1 ocabulary extension of technical English, terminology in the sphere of aircraft cons	Z Z	_
· .	relating to topics of air traffic, operational procedures, relevant legislation and oper		ii, aiiciaii
	viation English for Professional Pilot 2	Z,ZK	3
	within VFR and IFR communication, communication with technical staff at the airp		within the
	airlines.		
21LCM	Aircraft Engines	Z,ZK	3
	aracteristics and construction schemes. Propellers, operational characterictics. Turb	-	_
21LDA1	stics. Turbojet and turbofan engines, basic construction modules, and their operation Aircraft 1	Z.ZK	3
	basic knowledge of the problem. Development of requirements, aircraft definitions	,	_
	airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplan		J
21LDA2	Aircraft 2	Z,ZK	4
	ofessional supervising. Legislation in area of airworthiness. International and nation		ty of aircraf
	perational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime		
21LEIS	Aerodromes ode. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopwa	Z,ZK	3
	bstacle restriction, removal. Visual aids for navigation, lights, approach lighting syst		
systems.	Runway lights. Taxiway lights. Visual aids for denoting obstacles.		
21LEY1	Air Law 1	ZK	3
Air Law; ICAO Doc 7300; ICAO Doc 7500 and 9626; Internation	onal Organizations: ICAO, IATA, EASA, EUROCONTROL; airworthiness; ICAO Anr	nexes; Commission regula	ation (EU)
OAL DTV E	965/2012.	71/	
21LPTY-E Aircraft pentation for cruise approach f	Aircraft Operations inal approach, missed approach, hodling, PBN, augmented GNSS, aviation charts	ZK	2
21LPX1	Flight Training 1	KZ KZ	2
ļ	e in a range of at least PPL(A) of the objects 010 - 090 in accordance with Part FCI		
exercises, solo flights and navigation flights. This course is in	tended only for long-term student, who are in integrated pilots training and study al	Il courses related to Study	y field PIL
	(Professional Pilot) in all three years.		
21LPX2	Flight Training 2	KZ	2
- · · · · · · · · · · · · · · · · · · ·	in a range MEP land and IFR from the relevant subjects in accordance with Part Fo on flights. This course is intended only for long-term student, who are in integrated		
	ated to Study field PIL (Professional Pilot) in all three years.	photo training and study t	all courses
21LPX3	Flight Training 3	KZ	2
·	and practical examination of progress in professional competence in pilot skills and		
21LPX4	Flight Training 4	KZ	2
Deepening of theoretical knowledge a	and practical examination of progress in professional competence in pilot skills and		
	Flight Training 5	KZ	2
21LPX5	Flight Training 5		
21LPX5 Deepening of theoretical knowledge a	and practical examination of progress in professional competence in pilot skills and		
21LPX5 Deepening of theoretical knowledge a 21LTP2	and practical examination of progress in professional competence in pilot skills and Air Law 2	Z,ZK	3
21LPX5 Deepening of theoretical knowledge a 21LTP2 The course is focused on the issue of commercial commercial ai	and practical examination of progress in professional competence in pilot skills and Air Law 2 ir transport in accordance with applicable European legislation. Within the course, th	Z,ZK ne issue of EC regulations	is analyzed
21LPX5 Deepening of theoretical knowledge a 21LTP2 The course is focused on the issue of commercial commercial ai in detail File no. 965/2012, regulation no. 1321/2014 and ICA	and practical examination of progress in professional competence in pilot skills and Air Law 2	Z,ZK ne issue of EC regulations	is analyzed
21LPX5 Deepening of theoretical knowledge at 21LTP2 The course is focused on the issue of commercial commercial air in detail File no. 965/2012, regulation no. 1321/2014 and ICA 21LVPK	and practical examination of progress in professional competence in pilot skills and Air Law 2 ir transport in accordance with applicable European legislation. Within the course, th AO Annexes, which significantly affect the form, method and structure of commercia	Z,ZK ne issue of EC regulations al air transport and transp Z	is analyzed portation.

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2 LYRY 2 LOBN Telescope of the control of the cont	Composition, size	and vertical structure of the atmosphere. QNH, QFE, QFF, QNE, density and height measurements. Wind, moisture and adiabatic pro	cesses. Creating a	and types of
Climatic zones inspiral diministration, meteorological situation of mid-stabubase, bring, united recover, single primary (validity) performance. Determination, welfare metals, impraired immediate for light grain primary (validity) performance. Determination, welfare metals, impraired immediate or production and productions. Plant and distance. Calculations. Time. Magnetism and sinections. Wind and Speed Conserve. Reading, track. Calculations investigation compared to reviework. Plant and distance. Calculations. Time. Magnetism and sinections. Wind and Speed Conserve. Reading, track. Calculations investigation compared to reviework. Plant and distance. Calculations. Time. Magnetism and sinections. Wind and Speed Conserve. Reading, track. 21PKLI2				
21OBN Gondard Nabiguda, Reference systems, Circles on the Earth and distance, Calculations, Trine, Magnetian and disections, Wind and Sex. S. The Earth Listinus and Indiguida, Reference systems, Circles on the Earth and distance, Calculations, Trine, Magnetian on Appetitude (1997) and distance, Calculations, Trine, Magnetian on Magnetian distance, Calculations, Trine, Magnetian distance, Calculations, Trine, Magnetian distance, Calculations,		1		-
EVEN Contact Name	Climatic zones,		ratosphere, mounta	ain areas,
The Earth inthuis and tangularis Reference systems. Circles on the Earth and distance. Three, Marginetian and sinceriors. What and Spend Course, hearthing, track. Calculations: recipitation computer season. 46.5. Projections. Charles, VPR Revigition. Nature 12 vol. Navigation displays. Navigation in entrols and oceano areas. 21 PKL2 Learning obsectives are based on requirements laid down in Commission Regulation (EU) No. 117.2071, subject to 81 and 100. Multi engine aircraft and jet aircraft charleshing consumptions. And suppose the computer season of the projection of the projec	040001		71/	
Calculations revolgation computer convenience, TAS, since Calculations is in 60 and envigation computer text and GS Projections. Charts, VFR envigation. Nav. Log preparation and seasons are ass. 2 IPKL2 Learning deplications are based on requirements laid down in Commissions Regulation (EUN on 1192/011), subjects 681 and 100 Mills angine nicrotal are discretely recomplished and provided process, in a complete control of the provided process, and the provided in the complete control of the provided process of the provided process. Provided provided process, and the provided process of the provided process. Provided process of the provided process of the provided process. Provided provided process of the provided process of the provided provided process. Provided provided provided provided provided provided provided process. Provided pro				
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energy management, stabilized appearant and landing errors, jar - performance - engine out flight, jet - handling - engine out flight of the engine out flight, jet - handling - engine engine out flight, jet - handling - engine		, ,	I	
21PP1	energy manage	ement, stabilized approach and landing errors, jet - performance - engine out flight, jet - handling - engine out flight go around, UPRT,	volcanic ash, cold	weather
21PPY1 Annex 6, PNRFLOPS, Air operator, Aircraft operation, Operational Proceedures ZK 3		operations, operation manuals, MEL procedures and deviations, flight time limitation		
21PPY2 Operational Procedures 1 Annex 6, PART-OPS, Air operator, Amort decention, Contenting procedures, Airpaine equipment, Right management, Airpaine 21PPY2 Operational Procedures 2 Filight documentation and manuals, loing and protection of the aircraft against clinic, note hashement procedures, Abnormal and emergency situations and procedure in the procedure of the secretary against clinic procedures, Abnormal and emergency situations and procedure in the procedure of the secretary against clinic procedures, Abnormal and emergency situations and procedures, Rurway contaminations 21PRI2 Instrumentation 2 Compass, grotocopic instruments (turn indicator, attitude midicator, directional gyre), inertial instruments, recording and monitoring systems, varioning systems, (TCAS, GPWS), AFCS (adaptic), flight clinical procedures, Abnormal and emergency situations and procedures, Abnormal and monitoring, assembly, and employee procedure, communications systems, warring systems (TCAS, GPWS), AFCS (adaptic), flight clinical procedures, and procedures	21PML-E	Flight Planning and Monitoring	Z,ZK	3
21PPY2		Flight planning for VFR flights for small, single- and multi-engine aeroplanes		
21PRZ Operational Procedures 2	21PPY1	Operational Procedures 1	Z,ZK	3
Flight documentation and manuals, king and protection of the aircraft sgainst king, noise abatement procedures, Abnormal and emergency situations and procedures, Runway contamination. 2 IPRIZ 2 IPRIZ 2 INSTRUMENTALION (Authority) (authority), FMS, Right emergency protection, communication systems, warning systems (TCAS, GPWS), AFCS (Authority), FMS, Right emergency protection, communication systems, light computers. 2 IPRIXP Procical Eligibl Planning Procedure and briefing NOTIMA + weather(METAR, SIGMET, 1.5 Appease or her to provide the procedure and briefing NOTIMA + weather(METAR, SIGMET, 1.5 Appease). J. R.		Annex 6, PART-OPS, Air operator, Aircraft operation, Operating procedures, Airplane equipment, Flight management, Airspa	ace	
21PRJ2 Instrumentation ZX 3 Compass, gyroscopic instruments (turn indicator, discidence, discidence), inertial instruments, recording and monitoring systems, warning systems (TCAS, GPWS), AFCS (autopible), flight indicator, discidence and controlled instruments, recording and monitoring systems, warning systems (TCAS, GPWS), AFCS (autopible), flight indicator, durch things (in the melotop protection, communication systems, warning systems (TCAS, GPWS), AFCS (autopible), flight indicator, durch placining, DPB RIFRICFS 3.ATC FPL 4. Prelight procedure and brailing has provided and state of the placining in the place of the placining in the place of the pl	21PPY2	Operational Procedures 2	ZK	4
21PRP Practical Flight planning- (CAO mpas, spreadoptic instruments (turn indicator, attitude indicator, directions upon), inertial instruments, recording and monitoring systems, warning systems (TCAS, GPWS), AFCS (autopilot, flight director, autothinas), FMS, flight envelope protection, communication systems, flight computers. 21PRRP Practical Flight Planning ZZK 4	Flight document		ns and procedures	, Runway
Compass, syroscopic instruments (turn indicator, attitude indicator, directional grych, inertial instruments, recording and monitoring systems, warring systems (TCAS, GPWS), AFCS (autoplic, light) director, autobrichal, PRN, fight envelope proteidino, osytemic, fight compoures. 2.1 PRIP Practical Flight Planning PRN, RIPRCF 3, ATC FPL 4, Prelight planning, heavy 7, VFR flight planning- ICAO maps, softwary 8, IFR flight planning- heavy 7, VFR flight planning- ICAO maps, softwary 8, IFR flight planning- heavy 7, VFR flight planning- ICAO maps, softwary 8, IFR flight planning- heavy 7, VFR flight planning- ICAO maps, softwary 8, IFR flight planning- heavy 7, VFR flight planning- ICAO maps, softwary 8, IFR flight planning- heavy 7, VFR flight planning- ICAO maps, softwary 11, MRJT- OFP 12, ETOPS a NAT HLA 13, PET, PSR, PNR 14, practical VFR a IFR flight planning- softwary 11, MRJT- OFP 12, ETOPS a NAT HLA 13, PET, PSR, PNR 14, practical VFR a IFR flight planning- softwary 11, MRJT- OFP 12, ETOPS a NAT HLA 13, PST, PNR 14, practical VFR a IFR flight planning- softwary 11, MRJT- OFP 12, ETOPS a NAT HLA 13, PST, PNR 14, practical VFR a IFR flight planning- softwary 11, MRJT- OFP 12, ETOPS a NAT HLA 13, PST, PNR 14, practical VFR a IFR flight planning- softwary 11, MRJT- OFP 12, ETOPS a NAT HLA 13, PST, PNR 14, practical VFR a IFR flight planning- softwary 11, MRJT- OFP 12, ETOPS a NAT HLA 13, PST, PNR 14, practical VFR a IFR flight planning- softwary 11, MRJT- OFP 12, ETOPS a NAT HLA 13, PST, PNR 14, practical VFR a IFR flight planning- softwary 11, MRJT- OFP 12, ETOPS a NAT HLA 13, PST, PNR 14, practical VFR a IFR flight planning- softwary 11, MRJT- OFP 12, ETOPS a NAT HLA 13, PST, PNR 14, practical VFR a IFR flight planning- softwary 11, MRJT- OFP 12, ETOPS a NAT HLA 13, PST, PNR 14, practical VFR a IFR flight planning- softwary 11, MRJT- OFP 12, ETOPS a NAT HLA 13, PST, PNR 14, practical VFR a IFR flight planning- softwary 11, MRJT- OFP 12, ETOPS a NAT HLA 13, PST, PNR 14, PST, PNR 14, PST, PNR 14, PST, PNR 14				
21PRKP Protection Flight Protection Pr			I .	-
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1. mass and balanica 2. fuel planning, PDR RIFRCF 3. ATC FPL 4. Prelight procedure and briefing-NOTAM + weather METAR SIGNET_15. Jeppesen charte 6. VFR (light planning-theory 7. WFR (light planning-theory 7. WFR (light planning-theory 8. HFR (light planning-theory 9. WFR (light planning) - theory 7. WFR (light planning) - theory 8. WFR (light planning) - theory	O4 DDI/D		7.71/	
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21PUP1 Instrumentation 1 Instrumentation 1 Instrumentation			•	
21PUP1	l lileory 7. VFK iliç		- 12. E 10F3 a NA	I FILA 13.
Basic construction principles of instrumentation, electronic displays, basics of measurement - sensitivity and errors, engine instrumentation (pressure gauges, thermometers, fuel quantity and fuel flow measurement, torque and EPR measurement, indication in other aircraft systems (position, fire and icing) indication, with ration monitoring, pressuris-invision system monitoring, aerometric instruments (sensors, altimeter, air speed indicator, VSI, ADC): 21RNV Radionavigation Radionavigation Radionavigation Radionavigation for navigation during the flight. Area navigation (RNAV) - general philosophy, gauges and equipment, indication and sensors for RNAV, VOR/DME (RNAV). Autopilot and flight director. Satellite navigation, systems and backups. 21SBP Bachelor's Thesis Seminar Z 1 Work with information sources. Citation, citation formats. The methodology of writing the tensis. Presentation of results. Formal requirements for thesis. Presentation of thesis. Requirements for journal articles. Publication ethics. 21SBU Bachelor's Thesis dealing with design proposals). Working with citation sources (citation databases, citation styles) for the state of the art (standards of research writing). Defining the limitations of the state of the art. Introduction to the thesis methodology. 21VFRC VFR Communication YFR 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 subjects. Physical part of the state of the part standard and powerplant, aircraft systems, instrumentation, mass and balance, performance, air law and ATC procedures, meteorogy operational procedures, navigation, reading and powerplant, aircraft systems, instrumentation, mass and balance, performance, air law and ATC procedures, meteorogy operational procedures, navigation, representation, assay and balance, performance, air law and ATC procedures, meteorogy operational procedures in standard and i	21 DI ID1		7K	3
quantity and fuel flow measurement, torque and EPR measurement), indication in other aircraft systems (position, fire and icing indication, wivration monitoring, pressurisation system monitoring, aerometric instruments (sensors, altimeter, air speed indicator, VSI, ADC). 21RNV Radionavigation Radiar, SSR and transponder. Radar utilization for navigation during the flight. Area navigation (RNAV) - general philosophy, gauges and Doppler VOR, DME, ILS, MLS, ground ATC radar, weather Radar, SSR and transponder. Radar utilization for navigation during the flight. Area navigation (RNAV) - gauges and Doppler VOR, DME, ILS, MLS, ground ATC radar, weather Radar, SSR and transponder. Radar utilization for navigation during the flight. Area navigation (RNAV) - gauges and policy in the properties of the sensors for RNAV, VOR/DME (RNAV). Autopitor and flight director. Satellite navigation, systems and backups. 21SBP Bachelor's Thesis Serminar Z 1 Work with information sources. Citation, citation formats. The methodology of writing the thesis. Presentation of results. Formal requirements for thesis. Presentation of thesis. Requirements for journal articles. Publication ethics. 21SBU1 Sachelor Thesis Serminar Z 1 Types of thesis (review, applied research, basic research, thesis dealing with design proposals). Working with citation sources (citation sources, citation databases, citation styles, how to citate the state of the art (standards of research writing). Defining the limitations of the state of the art. Introduction to the thesis methodology. 21VFRC VFR Communication very proposals (Working with citation sources (citation sources, citation databases, citation styles, how to citate of the art. Introduction to the thesis methodology. 21VFRC VFR Communication very proposals (Working with citation sources (citation sources, citation databases, citation asterilation). Pressoology and procedures in standard and non-standard studing standard and part of the proposals of the state of the art. Introducti			I	-
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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 Z,ZK 6 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. 21VL-E Aircraft Performance Z,ZK 4 Basic terms of aircraft performance, basic characteristic speeds, runway characteristics, single and multiengine aircraft performance class B, aircraft performance class A, take off and landing performance, after take off and missed approach climb, noise abatement procedures, range of aircraft, drift down, MEL, ETOPS. 21X31 Project 1 Z 2 21X32 Project 2 Z 2 21X33 Project 3 Z 2 21X4L2 Principles of Flight 2 ZK 3 Static & Dampit Congitudinal stability, neutral point, location of centre of gravity, static directional & may; lateral stability, dynamic directional & marp; lateral stability, control pitch (longitudinal), yaw (directional) & marp; roll (lateral), roll/yaw interaction, trimming, speed of sound, Mach number, compressibility, shock waves, critical Mach number, aerodynamic heating, operating limitations, manoeuvring envelope, gust-load diagram. 212YT1 Principles of Flight 1 Z,ZK 3 Aerodynamic drag, relation between drag and speed, streamline, boundary lager, formula of continuity, formula of Bernoulli, lift and drag, inflow and pressures around wing, angle of attack, reactions of wing 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 drag, interference, devices for lift and	21SBP Work with infor 21SBU1 Types of thesis (rev	and backups. Bachelor's Thesis Seminar rmation sources. Citation, citation formats. The methodology of writing the thesis. Presentation of results. Formal requirements for the Requirements for journal articles. Publication ethics. Bachelor Thesis Seminar 1 view, applied research, basic research, thesis dealing with design proposals). Working with citation sources (citation sources, citation	Z sis. Presentation o Z databases, citation	n, systems 1 f thesis.
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