Recomended pass through the study plan

Name of the pass: Bachelor Full-Time PIL (CS) from 2023/24

Faculty/Institute/Others:

Department:

Pass through the study plan: Bachelor PIL (CS) Full-Time from 2023/24

Branch of study guranteed by the department: Welcome page

Guarantor of the study branch: Program of study: Professional Pilot Type of study: Bachelor full-time

Note on the pass:

Coding of roles of courses and groups of courses:

P - compulsory courses of the program, PO - compulsory courses of the branch, Z - compulsory courses, S - compulsory elective courses, PV - compulsory elective courses, F - elective specialized courses, V - elective courses, T - physical training courses

Coding of ways of completion of courses (KZ/Z/ZK) and coding of semesters (Z/L):

KZ - graded assesment, Z - assesment, ZK - examination, L - summer semester, Z - winter semester

Number of semester: 1

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	B 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
11GIE	Geometry Old ich Hykš, Pavel Provinský, Šárka Vorá ová Old ich Hykš Old ich Hykš (Gar.)	KZ	3	2P+2C+12B	B Z	Z
11LA	Linear Algebra Pavel Provinský, Lucie Kárná, Martina Be vá ová Martina Be vá ová Martina Be vá ová (Gar.)	Z,ZK	3	2P+1C+10B	B 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

Number of semester: 2

Number of Semes	SIGI. Z					
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
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
21LDA1	Aircraft 1 Karel Mündel Karel Mündel Vladimír Plos (Gar.)	Z,ZK	3	2P+1C	L	Z
21LAP1	Aviation English for Professional Pilot 1 Lukáš Zibner, Filip Havrda Filip Havrda	Z	2	0P+2C	L	Z
21LEY1	Air Law 1 Radoslav Zozu ák Radoslav Zozu ák Radoslav Zozu ák (Gar.)	ZK	3	3P+0C	L	Z
21LPX1	Flight Training 1 Iveta Kameníková, Jakub Hospodka	KZ	2	0P+1C	Z,L	Z
21CON-E	Navigation Calculations Milan Kameník, Paul Rousseau Milan Kameník	KZ	2	0P+2C	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
21ZYT1	Principles of Flight 1 Pemysl Vávra, Jakub Trýb Pemysl Vávra Vladimír Socha (Gar.)	Z,ZK	3	2P+1C	L	z

Number of semester: 3

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
21LPTY-E	Aircraft Operations Ladislav Capoušek Ladislav Capoušek	ZK	2	2P+0C	z	Z
21VL-E	Aircraft Performance Denisa Svobodová Anna Polánecká	Z,ZK	4	2P+2C	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
11FYZ	Physics Old ich Hykš, Jana Kuklová, Pavel Demo, Zuzana Malá, Tomáš Vít Jana Kuklová Pavel Demo (Gar.)	Z,ZK	5	2P+2C+18B	Z	Z
21LDA2	Aircraft 2 Karel Mündel Karel Mündel	Z,ZK	4	2P+1C	Z	Z
21LAP2	Aviation English for Professional Pilot 2 Lukáš Zibner Lukáš Zibner	Z,ZK	3	0P+4C	Z	Z
21LPX2	Flight Training 2 Iveta Kameníková, Jakub Hospodka, Jakub Charezinski, Roman Matyáš Iveta Kameníková	KZ	2	0P+1C	L,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
11SCFZ	Seminar of Physics Old ich Hykš, Jana Kuklová, Zuzana Malá, Tomáš Vít Zuzana Malá Zuzana Malá (Gar.)	Z	0	0P+2C	Z	V

Number of semester: 4

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
21AFL1-E	Advanced Flying 1 Viktor Valenta Viktor Valenta	Z,ZK	3	2P+1C	L	Z
14AP	Algorithm and Programming Vít Fábera, Michal Je ábek Vít Fábera (Gar.)	KZ	4	2P+2C	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
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
21PML-E	Flight Planning and Monitoring Anna Polánecká Anna Polánecká	Z,ZK	3	2P+2C	L	Z
21LPX3	Flight Training 3 Iveta Kameniková, Jakub Hospodka	KZ	2	0P+1C	L	Z
21MEE1	Meteorology 1 Iveta Kameníková Iveta Kameníková	Z,ZK	3	2P+2C	L	Z
21PRJ2	Instrumentation 2 Pavel Hovorka Pavel Hovorka	ZK	3	2P+0C	L,Z	Z
21SBU1	Bachelor Thesis Seminar 1 Lenka Hanáková Lenka Hanáková (Gar.)	Z	1	1P+0C	L	ZP
21IFRC	IFR Communication Milan Kameník Milan Kameník	KZ	2	1P+1C	L	Z
11SEMO	Seminar of Electromagnetic Field and Optics Old ich Hykš, Zuzana Malá, Tomáš Vít Zuzana Malá Zuzana Malá (Gar.)	Z	0	0P+2C	L	Z
		Min. cours.				
V4 DD DII 00 00/00	Projekty Bc. prezen ní PIL (CS) od 2022/23	3	Min/Max			
X1-BP-PIL-CS-22/23	11X31,12X31, (see the list of groups below)	Max. cours.	6/6			ZP
		3				

Number of semester: 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
21LEY2	Air Law 2	ZK	3	3P+0C	Z	Z
21LPX4	Flight Training 4 Iveta Kameníková, Jakub Hospodka, Jakub Charezinski, Roman Matyáš Iveta Kameníková	KZ	2	0P+1C	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 Jakub Hospodka, Anna Polánecká Ota Hajzler	Z,ZK	4	2P+2C	Z	Z
21SBU2	Bachelor Thesis Seminar 2 Vladimír Socha, Lenka Hanáková Vladimír Socha	Z	1	1P+0C	Z	ZP
21ZYT2	Principles of Flight 2 P emysl Vávra, Jakub Trýb Jakub Trýb	Z,ZK	3	2P+1C	Z	Z
	Projekty Do prozen ní Dll (CS) od 2022/22	Min. cours.	Min/Max			
X1-BP-PIL-CS-22/23	Projekty Bc. prezen ní PIL (CS) od 2022/23 11X31,12X31, (see the list of groups below)	Max. cours.	6/6			ZP

Number of semester: 6

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
21PKL2-E	Advanced Flying 2 Viktor Valenta Viktor Valenta	ZK	2	2P+0C	L,Z	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
21KSA	KSA Assessment	KZ	2	0P+2C	L	Z
21LVIP	MCC - Multicrew Cooperation	KZ	2	2P+1C	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, Slobodan Stoji , Petr Líka Ladislav Capoušek Slobodan Stoji (Gar.)	Z,ZK	3	2P+1C	L	Z
21LPX5	Flight Training 5 Iveta Kameníková, Jakub Hospodka	KZ	2	0P+1C	L	Z
11MSP	Modeling of Systems and Processes Bohumil Ková, Lucie Kárná Bohumil Ková Bohumil Ková (Gar.)	Z,ZK	4	2P+2C+12E	L	Z
21PRY2-E	Operational Procedures 2	ZK	3	3P+0C	L	Z
21SBU3	Bachelor Thesis Seminar 3 Lenka Hanáková Lenka Hanáková	Z	1	1P+0C	L	ZP
X1-BP-PIL-CS-22/23	Projekty Bc. prezen ní PIL (CS) od 2022/23 11X31,12X31, (see the list of groups below)	Min. cours. 3 Max. cours. 3	Min/Max 6/6			ZP

List of groups of courses of this pass with the complete content of members of individual groups

Kód		Name of the group of group (for specification	courses and on see here or	codes of members of this below the list of courses)	Com	pletion	Credi	s Scope	Semester	Role
X1-BP-PIL-	CS-22/23	Projekty Bc.	prezen ní PIL	(CS) od 2022/23		cours. 3 . cours. 3	Min/M	ax		ZP
11X31	Project 1		12X31	Project 1		14X31		Project 1		
15X31	Project 1		16X31	Project 1		17X31		Project 1		

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

List of courses of this pass:

Code	Name of the course	Completion	Credits
11CAL1	Calculus 1	Z,ZK	7
Sequence of real no	umbers and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative. Indefinite integral, Newton inte	gral, Riemann integi	ral, 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		ı
11EMO	Electromagnetic Field and Optics Electric field. Electric current. Magnetic field. Electromagnetic field. Optics. Basics of solid-state physics.	Z,ZK	4
11FYZ	Physics	Z,ZK	5
	Kinematics, dynamics, Newton's laws, force fields, mechanics of continuum, thermodynamics, introduction to electrostatics and ele		1
11GIE	Geometry	KZ	3
Differential geome	etry 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
Vector spaces (line	ear combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and the	-	minants and
	their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classifications.		
11MSP	Modeling of Systems and Processes	Z,ZK	4
	stem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of diffe		-
Linear and non	llinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer functions Discretization of continuous systems. System interconnection.	ion. Stability of LITS	systems.
11SCFZ	Seminar of Physics	Z	0
113012	Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermo	1	0
11SEMO	Seminar of Electromagnetic Field and Optics	Z	0
TIOLINO	Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.	_	0
11STAT	Statistics	Z,ZK	4
	lity Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Param		1
•	Regression and correlation analysis	·	
11X31	Project 1	Z	2
11X32	Project 2	Z	2
11X33	Project 3	Z	2
12X31	Project 1	Z	2
12X32	Project 2	Z	2
12X33	Project 3	Z	2
14AP	Algorithm and Programming	KZ	4
	representation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, searching	1	
· · · · · · · · · · · · · · · · · · ·	pple, dictionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, in		
	programming		
14X31	Project 1	Z	2
14X32	Project 2	Z	2
14X33	Project 3	Z	2
15JP1A	Foreign Language - English for PIL 1	Z	2
	inguage skills within spoken and written form of the language with the focus on aviation English. Practice of comprehension of authors	entic materials. Impr	ovement of
pronunciation and	f fluency of spoken language. Aviation phraseology in combination with general English. Revision and improvement of grammar stru	ctures, syntax and	vocabulary.
	Topics related to air transport and occupation of pilot and air staff.		
15JP2A	Foreign Language - English for PIL 2	KZ	3
•	inguage skills within spoken and written form of the language with the focus on aviation English. Practice of comprehension of author	-	
pronunciation and	If fluency of spoken language. Aviation phraseology in combination with general English. Revision and improvement of grammar stru	ctures, syntax and	vocabulary.
15 172 1	Topics related to air transport and occupation of pilot and air staff.	7	2
15JZ3A	Foreign Language - English 3 e and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Faculty	Z	3
	e and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Faculty rceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral		
F	and their features; terminology.		

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 Faculty's	fields of study - pile	ot. Focus on
improvement in per	ceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral ar	nd written form. Ted	chnical texts
	and their features; terminology.		
15X31	Project 1	Z	2
15X32	Project 2	Z	2
	·		
15X33	Project 3	Z	2
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
18X31	Project 1	Z	2
18X32	Project 2	Z	2
18X33	Project 3	Z	2
	· · · · · · · · · · · · · · · · · · ·		
20X31	Project 1	Z	2
20X32	Project 2	Z	2
20X33	Project 3	Z	2
21AFL1-E	Advanced Flying 1	Z,ZK	3
	ements Learning objectives laid down in Commission Regulation (EU) No 1178/2011. Instrument flying introduction, threat and error	,	_
	ures, enroute flight, holdings and arrivals, instrument approaches, performance based navigation, weather consideration, flight plann		
instrument depart	briefings, phraseology differences, lost communication procedures, CFIT prevention, decompresion	iing and monitoring	g, enective
0400N F		1/7	-
21CON-E	Navigation Calculations	KZ	2
Projection of map	s; times - UTC, Zulu, LT; positioning; sunrise and sunset; distance calculation; projection; maps and symbols; declination; speed; wind	d components and	wind drift;
	VFR route selection; position plotting.		
21ELDO	Air Transport Economy	Z,ZK	3
21HAV-E	Weight and Balance of Aircraft	Z,ZK	3
Basic terms of mass	s and balance, basic aircraft masses, weighing and maximum aircrafts masses, overloading of aircraft, standard weights of passenger, ba	ggage and crew, de	etermination
of load of aircraf	ft, flight documentation - loadsheet, trimsheet, securing of load, determination of centre of gravity, influence of centre of gravity position	on on aircarft perfo	rmance.
21IFRC	IFR Communication	KZ	2
	Abbreviations, Q-codes, Transport message categories, Transmission technique,, Transmission of letters, numbers, time and symbols		
	hts, Radar procedural phraseology, Standard phraseology and Morse code, Practical IFR radiotelephony procedures in normal and e		
21KPSL	Communication and Surveillance Systems in Aviation	ZK	3
	·		
i ne course acqu	iaints students with communication and surveillance systems both from the perspective of the air segment (aircraft systems) and from		or ground
244604	infrastructure (ground systems), which together create the necessary prerequisites for ensuring safe, efficient and economical air t	-	_
21KSA	KSA Assessment	KZ	
Communication			2
Oominiumbalion.	Management of flight path. Automation of flight. Leadership and teamwork. Problem solving. Decision making. Situation awarness. We		
John Humballoll.	Management of flight path. Automation of flight. Leadership and teamwork. Problem solving. Decision making. Situation awarness. We preventation and recovery training. Mental math.		
21LAP1			
21LAP1	preventation and recovery training. Mental math.	orkload manageme	ent. Upset 2
21LAP1 Exercises focused	preventation and recovery training. Mental math. Aviation English for Professional Pilot 1	orkload management Z n, principles of flig	ent. Upset 2
21LAP1 Exercises focused	preventation and recovery training. Mental math. Aviation English for Professional Pilot 1 d on continuous reading specialized texts, vocabulary extension of technical English, terminology in the sphere of aircraft constructio engines, instruments and systems, analyzes relating to topics of air traffic, operational procedures, relevant legislation and operators	orkload management Z n, principles of flig procedures.	ent. Upset 2 ht, aircraft
21LAP1 Exercises focuser 6 21LAP2	preventation and recovery training. Mental math. Aviation English for Professional Pilot 1 d on continuous reading specialized texts, vocabulary extension of technical English, terminology in the sphere of aircraft constructio engines, instruments and systems, analyzes relating to topics of air traffic, operational procedures, relevant legislation and operators Aviation English for Professional Pilot 2	Z n, principles of flig procedures. Z,ZK	ent. Upset 2 ht, aircraft
21LAP1 Exercises focuser 6 21LAP2	preventation and recovery training. Mental math. Aviation English for Professional Pilot 1 d on continuous reading specialized texts, vocabulary extension of technical English, terminology in the sphere of aircraft construction engines, instruments and systems, analyzes relating to topics of air traffic, operational procedures, relevant legislation and operators Aviation English for Professional Pilot 2 on repetition and smoother communication within VFR and IFR communication, communication with technical staff at the airport, a	Z n, principles of flig procedures. Z,ZK	ent. Upset 2 ht, aircraft
21LAP1 Exercises focused 21LAP2 Exercises focused	preventation and recovery training. Mental math. Aviation English for Professional Pilot 1 d on continuous reading specialized texts, vocabulary extension of technical English, terminology in the sphere of aircraft constructio engines, instruments and systems, analyzes relating to topics of air traffic, operational procedures, relevant legislation and operators Aviation English for Professional Pilot 2 I on repetition and smoother communication within VFR and IFR communication, communication with technical staff at the airport, a airlines.	Z n, principles of flig procedures. Z,ZK fluent conversation	ent. Upset 2 ht, aircraft 3 h within the
21LAP1 Exercises focused 21LAP2 Exercises focused 21LCM	preventation and recovery training. Mental math. Aviation English for Professional Pilot 1 d on continuous reading specialized texts, vocabulary extension of technical English, terminology in the sphere of aircraft constructio engines, instruments and systems, analyzes relating to topics of air traffic, operational procedures, relevant legislation and operators Aviation English for Professional Pilot 2 I on repetition and smoother communication within VFR and IFR communication, communication with technical staff at the airport, a airlines. Aircraft Engines	Z n, principles of flig procedures. Z,ZK fluent conversation Z,ZK	2 ht, aircraft 3 within the
21LAP1 Exercises focused 21LAP2 Exercises focused 21LCM Aircraft piston eng	preventation and recovery training. Mental math. Aviation English for Professional Pilot 1 d on continuous reading specialized texts, vocabulary extension of technical English, terminology in the sphere of aircraft constructio engines, instruments and systems, analyzes relating to topics of air traffic, operational procedures, relevant legislation and operators Aviation English for Professional Pilot 2 I on repetition and smoother communication within VFR and IFR communication, communication with technical staff at the airport, a airlines. Aircraft Engines ine, theoretical background, operational characteristics and construction schemes. Propellers, operational characteristics. Turbine en	Z n, principles of flig procedures. Z,ZK fluent conversation Z,ZK gine, theoretical ba	2 ht, aircraft 3 within the 3 ackground,
21LAP1 Exercises focused 21LAP2 Exercises focused 21LCM Aircraft piston eng thermal cycles, co	preventation and recovery training. Mental math. Aviation English for Professional Pilot 1 d on continuous reading specialized texts, vocabulary extension of technical English, terminology in the sphere of aircraft construction engines, instruments and systems, analyzes relating to topics of air traffic, operational procedures, relevant legislation and operators Aviation English for Professional Pilot 2 I on repetition and smoother communication within VFR and IFR communication, communication with technical staff at the airport, a airlines. Aircraft Engines ine, theoretical background, operational characteristics and construction schemes. Propellers, operational characterictics. Turbine en onstruction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics.	Z n, principles of flig procedures. Z,ZK fluent conversation Z,ZK gine, theoretical baracteristics. Engir	2 ht, aircraft 3 within the 3 ackground, ne control.
21LAP1 Exercises focused 21LAP2 Exercises focused 21LCM Aircraft piston eng thermal cycles, co	preventation and recovery training. Mental math. Aviation English for Professional Pilot 1 d on continuous reading specialized texts, vocabulary extension of technical English, terminology in the sphere of aircraft constructio engines, instruments and systems, analyzes relating to topics of air traffic, operational procedures, relevant legislation and operators Aviation English for Professional Pilot 2 I on repetition and smoother communication within VFR and IFR communication, communication with technical staff at the airport, a airlines. Aircraft Engines ine, theoretical background, operational characteristics and construction schemes. Propellers, operational characterictics. Turbine en onstruction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational character 1	z n, principles of flig procedures. Z,ZK fluent conversation Z,ZK gine, theoretical ba aracteristics. Engin Z,ZK	2 ht, aircraft 3 n within the 3 ackground, ne control.
21LAP1 Exercises focused 21LAP2 Exercises focused 21LCM Aircraft piston eng thermal cycles, co	preventation and recovery training. Mental math. Aviation English for Professional Pilot 1 d on continuous reading specialized texts, vocabulary extension of technical English, terminology in the sphere of aircraft construction engines, instruments and systems, analyzes relating to topics of air traffic, operational procedures, relevant legislation and operators Aviation English for Professional Pilot 2 I on repetition and smoother communication within VFR and IFR communication, communication with technical staff at the airport, a airlines. Aircraft Engines ine, theoretical background, operational characteristics and construction schemes. Propellers, operational characteristics. Turbine enconstruction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characterist 1 and conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and careful in the problem.	z n, principles of flig procedures. Z,ZK fluent conversation Z,ZK gine, theoretical baracteristics. Engin Z,ZK ategorisation. Aircraft	2 ht, aircraft 3 n within the 3 ackground, ne control.
21LAP1 Exercises focused 21LAP2 Exercises focused 21LCM Aircraft piston eng thermal cycles, cc 21LDA1 Aircraft structural and	preventation and recovery training. Mental math. Aviation English for Professional Pilot 1 d on continuous reading specialized texts, vocabulary extension of technical English, terminology in the sphere of aircraft construction engines, instruments and systems, analyzes relating to topics of air traffic, operational procedures, relevant legislation and operators. Aviation English for Professional Pilot 2 I on repetition and smoother communication within VFR and IFR communication, communication with technical staff at the airport, a airlines. Aircraft Engines ine, theoretical background, operational characteristics and construction schemes. Propellers, operational characteristics. Turbine enconstruction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational character 1 Indiconceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and care Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic	z n, principles of flig procedures. Z,ZK fluent conversation Z,ZK gine, theoretical baracteristics. Engin Z,ZK ategorisation. Aircrass.	2 ht, aircraft 3 h within the 3 ackground, he control. 3 aft loadings.
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	Flight Training 1		
exercises, solo fl		KZ	2
	ses for improvement 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 cor	ntrol, dual
21LPX2	ights and navigation flights. This course is intended only for long-term student, who are in integrated pilots training and study all cours	ses related to Stud	y field PIL
21LPX2	(Professional Pilot) in all three years.		
Z L /\Z	Flight Training 2	KZ	2
Practical exercise	es for improvement of theoretical knowledge in a range MEP land and IFR from the relevant subjects in accordance with Part FCL. The	1	
	nergency procedures, descents and navigation flights. This course is intended only for long-term student, who are in integrated pilots		
dual exercises, en		training and study	all courses
	related to Study field PIL (Professional Pilot) in all three years.	1	
21LPX3	Flight Training 3	KZ	2
	Deepening of theoretical knowledge and practical examination of progress in professional competence in pilot skills and knowledge.	edge	
21LPX4	Flight Training 4	KZ	2
	Deepening of theoretical knowledge and practical examination of progress in professional competence in pilot skills and knowledge.	edge	'
21LPX5	Flight Training 5	KZ	2
ZILI AO	Deepening of theoretical knowledge and practical examination of progress in professional competence in pilot skills and knowledge	I	_
0411/115			
21LVIP	MCC - Multicrew Cooperation	KZ	2
Flight safety analys	sis in relation to human factor. MCC - basic principles, phases and methods within the area of air transport. CRM - leadership, situationa	al awareness, deci	sion making
	process, communication, effect of stress to the multi-crew performance, standard operational procedures, automation.		
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 adiabatic pro	cesses. Creating a	and types of
	cloud, fog, haze. Precipitation. Types of air masses, atmospheric fronts. Distribution of pressure, cyclones, anticyclones, non-frontal	l cyclone.	
21MET2	Meteorology 2	Z.ZK	5
	tropical climatology, meteorological situation of mid-latitudes. Icing, turbulence, wind shear, thunderstorms, tornadoes, flying in the str	,	
Cilifiatic zones,		alosphere, mounta	alli aleas,
	reducing visibility phenomena. Observation, weather maps, important information for flight planning.	T	
210BN	General Navigation	ZK	5
The Earth: latitu	de and longitude. Reference systems. Circles on the Earth and distance. Calculations. Time. Magnetism and sirections. Wind and Spe	eed: Course, headi	ng, track.
Calculations: navig	ation computer conversions, TAS, rates. Calculations: 1 in 60 and navigation computer track and GS. Projections. Charts. VFR naviga	ation. Nav Log prep	paration and
	use. Navigation display. Navigation in remote and oceanic areas.		
21PKL2-E	Advanced Flying 2	ZK	2
	es are based on requirements laid down in Commission Regulation (EU) No 1178/2011, subjects 081 and 100. Multi engine aircraft a	I	
	ement, stabilized approach and landing errors, jet - performance - engine out flight, jet - handling - engine out flight go around, UPRT,	•	
energy manage	operations, operation manuals, MEL procedures and deviations, flight time limitation	voicariic asri, colu	weather
04004 5		7.71/	
21PML-E	Flight Planning and Monitoring	Z,ZK	3
	Flight planning for VFR flights for small, single- and multi-engine aeroplanes		
21PPY1-E	Operational Procedures 1	Z,ZK	3
	Annex 6, PART-OPS, Air operator, Aircraft operation, Operating procedures, Airplane equipment, Flight management, Airspa	ace	'
21PRJ2	Instrumentation 2	ZK	3
	pic instruments (turn indicator, attitude indicator, directional gyro), inertial instruments, recording and monitoring systems, warning sy	I	-
compaco, gyrococ	(autopilot, flight director, autothrust), FMS, flight envelope protection, communication systems, flight computers.		
		•	WO), AI CO
OADDIAD E			
21PRKP-E	Practical Flight Planning	Z,ZK	4
1. mass and balar	Practical Flight Planning nce 2. fuel planning, PDP, RIF,RCF 3. ATC FPL 4. Preflight procedure and briefing-NOTAM + weather(METAR,SIGMET) 5. Jeppesen	Z,ZK charts 6. VFR fligh	4 nt planning-
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1. mass and balar	Practical Flight Planning nce 2. fuel planning, PDP, RIF,RCF 3. ATC FPL 4. Preflight procedure and briefing-NOTAM + weather(METAR,SIGMET) 5. Jeppesen	Z,ZK charts 6. VFR fligh	4 nt planning-
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1. mass and balar theory 7. VFR flig 21PRY2-E	Practical Flight Planning nce 2. fuel planning, PDP, RIF,RCF 3. ATC FPL 4. Preflight procedure and briefing-NOTAM + weather(METAR,SIGMET) 5. Jeppesen pht planning- ICAO mapa, softwary 8. IFR flight planning- theory 9. PBN- RNAV, RNP 10. IFR flight planning- softwary 11. MRJT- OFF	Z,ZK charts 6. VFR fligh 2 12. ETOPS a NA	4 nt planning- T HLA 13.
1. mass and balar theory 7. VFR flig 21PRY2-E	Practical Flight Planning ace 2. fuel planning, PDP, RIF,RCF 3. ATC FPL 4. Preflight procedure and briefing-NOTAM + weather(METAR,SIGMET) 5. Jeppesen acht planning- ICAO mapa, softwary 8. IFR flight planning- theory 9. PBN- RNAV, RNP 10. IFR flight planning- softwary 11. MRJT- OFF PET, PSR, PNR 14. practical VFR a IFR flight planning Operational Procedures 2	Z,ZK charts 6. VFR fligh 2 12. ETOPS a NA	4 nt planning- T HLA 13.
mass and balar theory 7. VFR flig 21PRY2-E Flight document	Practical Flight Planning ace 2. fuel planning, PDP, RIF,RCF 3. ATC FPL 4. Preflight procedure and briefing-NOTAM + weather(METAR,SIGMET) 5. Jeppesen on the planning- ICAO mapa, softwary 8. IFR flight planning- theory 9. PBN- RNAV, RNP 10. IFR flight planning- softwary 11. MRJT- OFF PET, PSR, PNR 14. practical VFR a IFR flight planning Operational Procedures 2 Contamination	Z,ZK charts 6. VFR fligh P 12. ETOPS a NA ZK ns and procedures	4 nt planning- T HLA 13. 3 , Runway
1. mass and balar theory 7. VFR flig 21PRY2-E Flight document	Practical Flight Planning nee 2. fuel planning, PDP, RIF,RCF 3. ATC FPL 4. Preflight procedure and briefing-NOTAM + weather(METAR,SIGMET) 5. Jeppesen ght planning- ICAO mapa, softwary 8. IFR flight planning- theory 9. PBN- RNAV, RNP 10. IFR flight planning- softwary 11. MRJT- OFF PET, PSR, PNR 14. practical VFR a IFR flight planning Operational Procedures 2 tation and manuals, Icing and protection of the aircraft against icing, noise abatement procedures, Abnormal and emergency situation contamination Instrumentation 1	Z,ZK charts 6. VFR flight P 12. ETOPS a NAT ZK ns and procedures ZK	4 ht planning- T HLA 13.
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1. mass and balar theory 7. VFR flig 21PRY2-E Flight document 21PUP1 Basic construction	Practical Flight Planning nee 2. fuel planning, PDP, RIF,RCF 3. ATC FPL 4. Preflight procedure and briefing-NOTAM + weather(METAR,SIGMET) 5. Jeppesen on planning-ICAO mapa, softwary 8. IFR flight planning- theory 9. PBN- RNAV, RNP 10. IFR flight planning- softwary 11. MRJT- OFF PET, PSR, PNR 14. practical VFR a IFR flight planning Operational Procedures 2 Instrumentation Instrumentation 1 In principles of instrumentation, electronic displays, basics of measurement - sensitivity and errors, engine instrumentation (pressure ow measurement, torque and EPR measurement), indication in other aircraft systems (position, fire and icing indication, vibration more)	Z,ZK charts 6. VFR flight P 12. ETOPS a NAT ZK ns and procedures ZK gauges, thermome	4 nt planning- T HLA 13. 3 , Runway 3 eters, fuel
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21VL-E	Aircraft Performance	Z,ZK	4
Basic terms of airc	raft performance, basic characteristic speeds, runway characteristics, single and multiengine aircraft performance class B, aircraft perf	ormance class A,	take off and
	landing performance, after take off and missed approach climb, noise abatement procedures, range of aircraft, drift down, MEL, E	TOPS.	
21X31	Project 1	Z	2
21X32	Project 2	Z	2
21X33	Project 3	Z	2
21ZYT1	Principles of Flight 1	Z,ZK	3
Aerodynamic drag	, relation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and pre	essures around w	ing, angle of
attack, reactions o	f 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	e, devices for
	lift and drag increase.		
21ZYT2	Principles of Flight 2	Z,ZK	3
	Principles of Flight 2 amic longitudinal stability, neutral point, location of centre of gravity, static directional & tability, dynamic directional & amp; lateral stability, dynamic directional & amp;	,	_
Static & dyn	, ,	; lateral stability, c	ontrol pitch
Static & dyn	amic longitudinal stability, neutral point, location of centre of gravity, static directional & amp; lateral stability, dynamic directional & amp;	; lateral stability, c	ontrol pitch
Static & dyn	amic longitudinal stability, neutral point, location of centre of gravity, static directional & place and stability, dynamic directional & price amp; w (directional) & price amp; roll (lateral), roll/yaw interaction, trimming, speed of sound, Mach number, compressibility, shock waves, critical laterals.	; lateral stability, c	ontrol pitch
Static & dyn (longitudinal), ya	amic longitudinal stability, neutral point, location of centre of gravity, static directional & lateral stability, dynamic directional & w (directional) & (lateral), roll/yaw interaction, trimming, speed of sound, Mach number, compressibility, shock waves, critical heating, operating limitations, manoeuvring envelope, gust-load diagram.	; lateral stability, c	control pitch rodynamic
Static & amp; dyn (longitudinal), ya 22X31	amic longitudinal stability, neutral point, location of centre of gravity, static directional & lateral stability, dynamic directional & w (directional) & w (directio	; lateral stability, c	ontrol pitch rodynamic
Static & amp; dyn (longitudinal), ya 22X31 22X32	amic longitudinal stability, neutral point, location of centre of gravity, static directional & project 1 Project 2	; lateral stability, c	control pitch rodynamic
Static & Depth (longitudinal), yas 22X31 22X32 22X33	amic longitudinal stability, neutral point, location of centre of gravity, static directional & project 1 Project 2 Project 3	; lateral stability, c	control pitch rodynamic 2 2 2 2

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