#### Recomended pass through the study plan

#### Name of the pass: Bachelor Full-Time PIL (CS) from 2022/23

Faculty/Institute/Others:

Department:

Pass through the study plan: Bachelor PIL (CS) Full-Time from 2022/23

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 <b>Bohumil Ková</b> Ond ej Navrátil (Gar.)	Z,ZK	7	2P+4C+22B	Z	Z
11GIE	Geometry Old ich Hykš, Pavel Provinský, Šárka Vorá ová Old ich Hykš Old ich Hykš (Gar.)	KZ	3	2P+2C+12B	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	Z	Z
210BN	General Navigation Radoslav Zozu ák Radoslav Zozu ák	ZK	5	4P+0C	Z	Z
21SVFR	VFR Communication Milan Kameník	Z	4	2P+1C	Z	Z
21TVFR	Theory for VFR Training  Ladislav Capoušek	Z,ZK	8	4P+4C	Z	Z

#### Number of semester: 2

Nullibel of 3		1		1	1 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
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 L	Z
15JZ1A	Foreign Language - English 1  Markéta Vojanová, Dana Boušová, Marie Michlová, Marek Tome ek, Jan Feit, Markéta Musilová, Peter Morpuss, Lenka Monková, Jitka He manová,	Z	3	0P+4C+10B	B Z	Z
21CON	Navigation Calculations	KZ	2	0P+2C	L	Z
21HAV	Weight and Balance of Aircraft	Z,ZK	3	2P+2C	L	Z
21LDA1	Aircraft 1 Karel Mündel Karel Mündel Vladimír Plos (Gar.)	Z,ZK	3	2P+1C	L	Z
21LTP1	Air Law 1	KZ	3	3P+0C	L	Z
21LPX1	Flight Training 1 Iveta Kameníková, Jakub Hospodka	KZ	2	0P+1C	Z,L	Z
21PRJ1	Instrumentation 1	ZK	2	2P+0C	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 L	Z
21ZKL1	Principles of Flight 1 Pemysl Vávra, Jakub Trýb, Vladimír Machula Pemysl Vávra Pemysl Vávra (Gar.)	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
15JZ2A	Foreign Language - English 2 Markéta Vojanová, Marie Michlová, Marek Tome ek, Jan Feit, Markéta Musilová, Peter Morpuss, Lenka Monková, Jitka He manová, Eva Rezlerová,	Z,ZK	3	0P+4C+10B		Z
21EKL	Air Transport Economy	Z,ZK	3	2P+1C	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
21LTA2	Aircraft 2 Karel Mündel	Z,ZK	2	2P+1C	Z	Z
21APL1	Aviation English 1 for Professional Pilot	Z	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
21LPTY	Aircraft Operations  Ladislav Capoušek	ZK	2	2P+0C	Z	Z
21PRJ2	Instrumentation 2 Pavel Hovorka Pavel Hovorka	ZK	3	2P+0C	L,Z	Z
21RDN	Radionavigation Milan Kameník	Z,ZK	3	3P+1C	Z	Z
21VL	Aircraft Performance Denisa Svobodová Denisa Svobodová	Z,ZK	4	2P+2C	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	٧

#### 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
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
21APL2	Aviation English 2 for Professional Pilot	Z,ZK	3	0P+4C	L	Z
21LPX3	Flight Training 3 Iveta Kameníková, Jakub Hospodka	KZ	2	0P+1C	L	Z
21LCLT	Human Factors in Aviation	ZK	3	3P+0C	L	Z
21MRG1	Meteorology 1	KZ	3	2P+2C	L	Z
11MSP	Modeling of Systems and Processes Bohumil Ková, Lucie Kárná, Jana Kuklová Jana Kuklová Bohumil Ková (Gar.)	Z,ZK	4	2P+2C+12B	L	Z
21PML	Flight Planning and Monitoring Anna Polánecká Anna Polánecká (Gar.)	Z,ZK	3	2P+2C	L	Z
21PKL1	Advanced Flying 1	KZ	4	2P+2C	L	Z
21SIFR	IFR Communication	Z	2	1P+1C	L	ZP
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 CC 22/22	Projekty Bc. prezen ní PIL (CS) od 2022/23	3	Min/Max			70
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
15JZ3A	Foreign Language - English 3 Markéta Vojanová, Dana Boušová, Marie Michlová, Jan Feit, Markéta Musilová, Peter Morpuss, Lenka Monková, Jitka He manová, Eva Rezlerová	Z	3	0P+4C	Z	Z
21LTP2	Air Law 2 Radoslav Zozu ák Radoslav Zozu ák	Z,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	
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	
21PRKP	Practical Flight Planning Jakub Hospodka, Anna Polánecká <b>Jakub Hospodka</b>	Z,ZK	4	2P+2C	Z	Z	
21PPY1	Operational Procedures 1 Ladislav Capoušek Ladislav Capoušek	Z,ZK	3	2P+1C	Z	ZP	
21SBP	Bachelor's Thesis Seminar Lenka Hanáková, Vladimír Socha, Marta Urbanová Marta Urbanová	Z	1	0P+1C	Z	Z	
21ZKL2	Principles of Flight 2 P emysl Vávra, Jakub Trýb Jakub Trýb	ZK	3	2P+1C	Z	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					
		Min. cours.					
	PVP-R Bc prezen ní PII (CS) od 2024/25	2	Min/Max				
Y1-BP-PIL-CS-24/25	PVP-B Bc. prezen ní PIL (CS) od 2024/25  15Y1EH,15Y1HE, (see the list of groups below)	Max. cours.	4/4			PV	
		2					

#### 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
14AP	Algorithm and Programming Vít Fábera, Michal Je ábek Vít Fábera (Gar.)	KZ	4	2P+2C	L	Z
15JZ4A	Foreign Language - English 4 Markéta Vojanová, Marie Michlová, Jan Feit, Markéta Musilová, Peter Morpuss, Lenka Monková, Jitka He manová, Eva Rezlerová, Barbora Horá ková	Z,ZK	3	0P+4C	L	Z
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
21LVPK	MCC - Multicrew Cooperation Vladislav Pružina	Z	2	2P+1C	L	Z
21LCM	Aircraft Engines Vladimír Machula, Tomáš Parýzek, Daniel Hanus <b>Daniel Hanus</b>	Z,ZK	3	2P+1C	Z,L	Z
21LEIS	Aerodromes Slobodan Stoji , Ladislav Capoušek, 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
21PPY2	Operational Procedures 2  Ladislav Capoušek Ladislav Capoušek	ZK	4	3P+0C	L	ZP
		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				
		Min. cours.				
	DVD P Po prozon ní PH (CS) od 2024/25	2	Min/Max			
Y1-BP-PIL-CS-24/25	PVP-B Bc. prezen ní PIL (CS) od 2024/25 15Y1EH,15Y1HE, (see the list of groups below)	Max. cours.	4/4			PV
		2				

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

Kód	Name of the group of courses and codes of members of this group (for specification see here or below the list of courses)	Completion	Credits	Scope	Semester	Role
X1-BP-PIL-CS-22/23	S-22/23 Projekty Bc. prezen ní PIL (CS) od 2022/23	Min. cours.	Min/Max			ZP
		3	6/6			2P

					Max	. cours. 3				
11X31	Project 1		12X31	Project 1		14X31	1	Project 1		ļ
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	Ì	Project 3		
21X33	Project 3		22X33	Project 3		23X33		Project 3		
	·		•		Min	. cours.	Min/Ma	ax		
Y1-BP-P	IL-CS-24/25	PVP-B Bc.	prezen ní PIL	(CS) od 2024/25	Max	cours.				PV
15Y1EH	European	Integration within Hist	15Y1HE	Work Hygiene and Ergonomics in	Ť	15Y1ZV		East-West did	hotomy: Prelu	ide to
18Y1AM	Anatomy, N	Mobility and Safety of	18Y1EM	Experimental Methods in Mechan	ic	21Y1MP		Matlab for pro	ject-oriented	stud
21Y1OH	Airline Bus	iness and Operations	15Y1BO	Work Safety and Health Protectio		15Y1HL		History of Civ	I Aviation	
17Y1LL	Logistics o	f Passenger and Freig	18Y1MT	Engineering Materials		18Y1PD		Computer Sin	nulations in Tra	anspor
18Y1PS	Computer	Simulations in Mechanic	21Y1BC	Aviation safety and security		21Y1BS	Ì	Unmanned ai	craft systems	1
21Y1RZ	Human Re	sources Management	00Y1XB	Active participation in a scient						

# List of courses of this pass:

	Name of the course	Completion	Credits
00Y1XB	Active participation in a scientific project, workshop, short-term trip abroad	KZ	2
11CAL1	Calculus 1	Z,ZK	7
Sequence of real	numbers and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative. Indefinite integral, Newton integral First-order differential equations, linear differential equations.	gral, Riemann integi	ral, improper
11CAL2	Calculus 2	Z,ZK	5
Line	ear differential equations and their systems, differential calculus of functions of several real variables. Riemann integral in Rn. Line and	surface integrals.	•
11EMO	Electromagnetic Field and Optics  Electric field. Electric current. Magnetic field. Electromagnetic field. Optics. Basics of solid-state physics.	Z,ZK	4
11FYZ	Physics	Z,ZK	5
	Kinematics, dynamics, Newton's laws, force fields, mechanics of continuum, thermodynamics, introduction to electrostatics and electrostatics and electrostatics.	1	1
11GIE	Geometry	KZ	3
Differential geon	netry of curves - parameterization, the arc of the curve, torsion and curvature, Frenet's trihedron. Kinematics - a curve as a trajectory acceleration of a particle moving on a curved path.	of the motion, the v	elocity, and
11LA	Linear Algebra	Z,ZK	3
Vector spaces (lir	near combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and the their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classifications.	•	minants and
11MSP	Modeling of Systems and Processes	Z,ZK	4
System and subs	ystem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differ	ential and differentia	al equations.
System and subs		ential and differentia	al equations.
System and subs	ystem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differ onlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer functions Discretization of continuous systems. System interconnection.	ential and differentia	al equations.
System and subs	ystem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differ onlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer functi	ential and differential on. Stability of LTI s	al equations.
System and subs	ystem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differ onlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function Discretization of continuous systems. System interconnection.  Seminar of Physics	ential and differential on. Stability of LTI s	al equations.
System and substitute Linear and no 11SCFZ	ystem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differ conlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function Discretization of continuous systems. System interconnection.  Seminar of Physics  Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodes the seminar of Electromagnetic Field and Optics	ential and differentia on. Stability of LTI s Z Jynamics.	al equations.
System and substance Linear and not all subst	ystem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differ conlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function Discretization of continuous systems. System interconnection.  Seminar of Physics Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodes Seminar of Electromagnetic Field and Optics Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.	ential and differentia on. Stability of LTI s Z lynamics. Z	al equations. systems.
System and substance Linear and not all subst	ystem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differ conlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function Discretization of continuous systems. System interconnection.  Seminar of Physics Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodes Seminar of Electromagnetic Field and Optics Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.  Statistics bility Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Parameters.	ential and differentia on. Stability of LTI s Z lynamics. Z	al equations. systems.
System and substance Linear and not all subst	ystem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differ conlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function Discretization of continuous systems. System interconnection.  Seminar of Physics Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodes Seminar of Electromagnetic Field and Optics Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.  Statistics bility Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Parameters Regression and correlation analysis	ential and differentia on. Stability of LTI s  Z lynamics.  Z  Z,ZK  tric tests Nonparar	o department of the state of th
System and substance Linear and not all the stance of the	ystem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differ conlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function Discretization of continuous systems. System interconnection.  Seminar of Physics Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodes Seminar of Electromagnetic Field and Optics Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.  Statistics bility Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Parameters Regression and correlation analysis  Project 1	ential and differentia on. Stability of LTI s  Z tynamics.  Z  Z,ZK etric tests Nonparar	al equations. systems.  0  0  4 netric tests
System and substance Linear and not all the stance of the	ystem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differ conlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function Discretization of continuous systems. System interconnection.  Seminar of Physics Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodes Seminar of Electromagnetic Field and Optics Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.  Statistics bility Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Parame Regression and correlation analysis  Project 1  Project 2	ential and differentia on. Stability of LTI s  Z lynamics.  Z  Z,ZK etric tests Nonparar  Z  Z	o 0 4 A metric tests 2 2
System and subsitioned and not be linear and not	ystem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differ continuous system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function Discretization of continuous systems. System interconnection.  Seminar of Physics Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodes Seminar of Electromagnetic Field and Optics Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.  Statistics bility Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Parame Regression and correlation analysis  Project 1  Project 2  Project 3	ential and differentia on. Stability of LTI s  Z lynamics.  Z  Z,ZK etric tests Nonparar  Z  Z  Z	al equations. systems.  0  4 netric tests  2 2 2

14AP	Algorithm and Programming	KZ	4
	epresentation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, searching an		
data types (set, tu	pple, dictionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, inst programming	roduction into obje	ect oriented
14X31	Project 1	Z	2
14X32	Project 2	Z	2
14X33	Project 3	Z	2
15JZ1A	Foreign Language - English 1	Z	3
	tures and Style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and cor	_	_
	stylistics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles of	of rhetoric.	
15JZ2A	Foreign Language - English 2	Z,ZK	3
Grammatical struct	ures and style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and cor		Elementary
45 170 4	stylistics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles of		
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's	fields of study pilo	3
	rceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral an		
	and their features; terminology.		
15JZ4A	Foreign Language - English 4	Z,ZK	3
	and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Faculty's f		
improvement in per	rceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral an	ıd written form. Tec	chnical texts
1EV24	and their features; terminology.	7	2
15X31	Project 1	Z	2
15X32	Project 2	Z	2
15X33	Project 3	Z KZ	2
15Y1BO	Work Safety and Health Protection in Transportation		
i undamentariegis	health insurance of home and foreign business trips, statistics, working practice.	saili protection pro	ogrammes,
15Y1EH	European Integration within Historical Context	KZ	2
	formation of new states. Europe and the powers, League of Nations. European policy in the 1920s. Fascism, nacism, communism. Lit	ttle Entente, its pri	nciples and
goals. Europe after	er Hitler's getting to power, system of bilateral agreements. Decline of the LN. Rearrangement of powers during WWII. Cold war and it	s consequences for	or Europe.
	New quality of French-German relationship - a driving power of starting European integration.		
15Y1HE	Work Hygiene and Ergonomics in Traffic	KZ	2
_	of occupational hygiene and ergonomics, and their application in transport. Working environment factors, and the influence of these fection of working conditions that do not damage public health. Mutual links: man-machine-environment. Adaptation of technology to po		
Croamon and prote	Practical examples from the field of transportation; relevant legislature.		
15Y1HL	History of Civil Aviation	KZ	2
Beginnings of flying	g, development of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of air	irports in the Czec	h Republic.
World airports. Fa	amous aviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era of	aviation. Golden	era of civil
15\/17\/	aviation. Modern era of civil aviation. Airline companies. Supersonic flying.	V7	2
15Y1ZV Historical proloque	East-West dichotomy: Prelude to the Cold War, evolution of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continui	KZ	2
· -	century and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the	=	
	Economic and financial history. Social changes. Discussions on texts, sources.		
16X31	Project 1	Z	2
16X32	Project 2	Z	2
16X33	Project 3	Z	2
17X31	Project 1	Z	2
17X32	Project 2	Z	2
17X33	Project 3	Z	2
17Y1LL	Logistics of Passenger and Freight Air Transport	KZ	2
Logistics airline pa	ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial trans	sport process pass	sengers and
18X31	air cargo. Information systems in air transport. Global distribution systems.	7	2
18X32	Project 1	Z Z	2
	Project 2	Z	
18X33 18Y1AM	Project 3  Anatomy, Mobility and Safety of Man	KZ	2
	Anatomy, Mobility and Salety of Man		l
-	of muscular-skeletal system. Injury of human organs and musculo-skeletal system during traffic accidents. Mobility of ill and injured m	-	
	joint prostheses. Protective means and traffic safety regulations.		
18Y1EM	Experimental Methods in Mechanics	KZ	2
	role of experimental mechanics. Sensors for mechanical testing. Overview of experimental methods. Destructive and non-destructive t	-	-
experimental pro	cedures and sample preparation. Tensile and bending tests. Electrical resistance strain gages. Optical based strain measurement. Fat Instrumented hardness testing. Introduction to electron microscopy. Errors in measurement.	ague and lifetime p	orediction.
18Y1MT	Engineering Materials	KZ	2
	Engineering Materials ew of main classes of materials used in technical design. In addition to main classes of materials, i. e. metals, ceramics, polymers and		
=	orical materials and to high material control designs a design of the state of the	•	

18Y1PD	Computer Simulations in Transportation	KZ	2
•	view of tools for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model development	•	• •
from other CAE sys	stems. Assignment of material properties. The types of elements and their use. Discretization of solid model. Boundary conditions and	application of the	load. Basic
	tasks of structural and modal analysis. Introduction to complex nonlinear problems.		
18Y1PS	Computer Simulations in Mechanics	KZ	2
	view of tools for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model developme		
from other CAE sys	stems. Assignment of material properties. The types of elements and their use. Discretization of solid model. Boundary conditions and	application of the	load. Basic
20V24	tasks of structural and modal analysis. Introduction to complex nonlinear problems.	7	
20X31	Project 1	Z	2
20X32	Project 2	Z	2
20X33	Project 3	Z	2
21APL1	Aviation English 1 for Professional Pilot	Z	3
	d on continuous reading specialized texts, vocabulary extension of technical English, terminology in the sphere of aircraft construction		ht, aircraft
	engines, instruments and systems, analyzes relating to topics of air traffic, operational procedures, relevant legislation and operators		
21APL2	Aviation English 2 for Professional Pilot	Z,ZK	3
Exercises focused	on repetition and smoother communication within VFR and IFR communication, communication with technical staff at the airport, a	fluent conversation	n within the
	airlines.		
21CON	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;
0.4514	VFR route selection; position plotting.	7.71	
21EKL	Air Transport Economy	Z,ZK	3
	urse is to introduce students to the basic issues of economics and then to follow up on more complex problems of air transport. Studing and supply in air transport and the specific problems related to these topics. At the same time, they will gain a comprehensive under the specific problems related to these topics.		
principles of defila	different types as well as airline revenues and yields.	aerstanding or cos	is and their
21HAV	Weight and Balance of Aircraft	Z,ZK	3
	iss and balance, basic aircraft masses, weighing and maximum aircraft masses, overloading, standard weights of passenger, baggac	,	_
	ad, flight documentation - loadsheet, trimsheet, load securing, determination of centre of gravity, influence of centre of gravity on the		
21KPSL	Communication and Surveillance Systems in Aviation	ZK	3
	laints students with communication and surveillance systems both from the perspective of the air segment (aircraft systems) and from		_
	infrastructure (ground systems), which together create the necessary prerequisites for ensuring safe, efficient and economical air t		9
21KSAV	KSA Assessment	Z,ZK	2
	Management of flight path. Automation of flight. Leadership and teamwork. Problem solving. Decision making. Situation awarness. We		
	preventation and recovery training. Mental math.	· ·	
21LCLT	Human Factors in Aviation	ZK	3
Human factors in	aviation. Breathing, atmosphere. Heart and circulation. Radiation. Human sensory organs, nervous system. Vision, hearing, illusions.	Health and hygier	ne, fatigue,
	wakefulness and sleep. Information processing, human error. Cockpit management. Behaviour and workload. Automation. Core com	petencies.	
21LCM	Aircraft Engines	Z,ZK	3
	ine, theoretical background, operational characteristics and construction schemes. Propellers, operational characteristics. Turbine en	-	-
thermal cycles, co	onstruction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational ch	aracteristics. Engir	ne control.
21LDA1	Aircraft 1	Z,ZK	3
	nd conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and ca		aft loadings.
	Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic		
21LEIS	Aerodromes	Z,ZK	3
	s. Applicability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mar	ŭ	
Markings. Signs. Ma	arkers. Visual aids for denoting obstacles. Obstacle restriction, removal. Visual aids for navigation, lights, approach lighting systems. V	isual approach slo	pe indicator
041.071/	systems. Runway lights. Taxiway lights. Visual aids for denoting obstacles.	71/	
21LPTY	Aircraft Operations	ZK	2
041 DV4	Aircraft oepration for cruise, approach, final approach, missed approach, hodling, PBN, augmented GNSS, aviation charts for IF	_	
21LPX1	Flight Training 1	KZ	2
	es for improvement of theoretical knowledge in a range of at least PPL(A) of the objects 010 - 090 in accordance with Part FCL. The ghts and navigation flights. This course is intended only for long-term student, who are in integrated pilots training and study all cours	_	
exercises, solo ili	(Professional Pilot) in all three years.	es related to Stud	y lielu FIL
21LPX2	Flight Training 2	KZ	2
	s for improvement of theoretical knowledge in a range MEP land and IFR from the relevant subjects in accordance with Part FCL. Th		
	regency procedures, descents and navigation flights. This course is intended only for long-term student, who are in integrated pilots		
addi onorologo, on	related to Study field PIL (Professional Pilot) in all three years.	g aa o.aa,	
21LPX3	Flight Training 3	KZ	2
212170	Deepening of theoretical knowledge and practical examination of progress in professional competence in pilot skills and knowledge		
21LPX4	Flight Training 4	KZ	2
	Deepening of theoretical knowledge and practical examination of progress in professional competence in pilot skills and knowledge		' -
21LPX5	Flight Training 5	KZ	2
7.0	Deepening of theoretical knowledge and practical examination of progress in professional competence in pilot skills and knowledge		' -
21LTA2	Aircraft 2	Z,ZK	2
	onsibility, responsibilities of operator and professional supervising. Legislation in area of airworthiness. International and national star	· '	
	structures. Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presu		
21LTP1	Air Law 1	KZ	3
	c 7300; ICAO Doc 7500 and 9626; International Organizations: ICAO, IATA, EASA, EUROCONTROL; airworthiness; ICAO Annexes;		
	065/2012		

21LTP2	Air Law 2	Z,ZK	3
	sed on the issue of commercial commercial air transport in accordance with applicable European legislation. Within the course, the issue	_	- 1
in detail File no.	965/2012, regulation no. 1321/2014 and ICAO Annexes, which significantly affect the form, method and structure of commercial air tr	ansport and transp	ortation.
21LVPK	MCC - Multicrew Cooperation	Z	2
Flight safety analys	sis in relation to human factor. MCC - basic principles, phases and methods within the area of air transport. CRM - leadership, situation	al awareness, decis	sion making
	process, communication, effect of stress to the multi-crew performance, standard operational procedures, automation.		
21MET2	Meteorology 2	Z,ZK	5
Climatic zones,	tropical climatology, meteorological situation of mid-latitudes. Icing, turbulence, wind shear, thunderstorms, tornadoes, flying in the str	atosphere, mounta	in areas,
	reducing visibility phenomena. Observation, weather maps, important information for flight planning.		
21MRG1	Meteorology 1	KZ	3
Composition, size	and vertical structure of the atmosphere. QNH, QFE, QFF, QNE, density and height measurements. Wind, moisture and adiabatic pro	•	nd types of
	cloud, fog, haze. Precipitation. Types of air masses, atmospheric fronts. Distribution of pressure, cyclones, anticyclones, non-frontal		
210BN	General Navigation	ZK	5
	de and longitude. Reference systems. Circles on the Earth and distance. Calculations. Time. Magnetism and sirections. Wind and Spe		- 1
Calculations: navig	ation computer conversions, TAS, rates. Calculations: 1 in 60 and navigation computer track and GS. Projections. Charts. VFR navigation computer track and GS. Projections.	tion. Nav Log prep	aration and
0.45141.4	use. Navigation display. Navigation in remote and oceanic areas.	177	
21PKL1	Advanced Flying 1	KZ	. 4
	ements Learning objectives laid down in Commission Regulation (EU) No 1178/2011. Instrument flying introduction, threat and error	-	
instrument depai	tures, enroute flight, holdings and arrivals, instrument approaches, performance based navigation, weather consideration, flight plann	ing and monitoring	, effective
045141.0	briefings, phraseology differences, lost communication procedures, CFIT prevention, decompresion	717	
21PKL2	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	•	
energy manage	ement, stabilized approach and landing errors, jet - performance - engine out flight, jet - handling - engine out flight go around, UPRT,	voicanic asn, coid	weather
O4 DMI	operations, operation manuals, MEL procedures and deviations, flight time limitation	7 71/	
21PML	Flight Planning and Monitoring  Load of aircraft. Determination of centre of gravity - loadsheet, trimsheet. Aircraft weighing. Overloading of aircraft. Basic characteristic s	Z,ZK	3
	Load of aircraft. Determination of centre of gravity - loadsneet, trimsneet. Aircraft weigning. Overloading of aircraft, basic characteristic s <sub>l</sub> g performance. Drift down. ETOPS. MEL. Flight planning and monitoring. Routing. FL and speeds selection. Charts. ICAO ATC FPL. A	•	
rake on and landii	g performance. Drift down, E10F3, MEE. Flight planning and monitoring, Routing, FE and speeds selection. Charts, 10AO A1C FFE, A  Fuel plan. Operational flight plan.	erodrom operation	minimums.
24 DDV4		7 71/	2
21PPY1	Operational Procedures 1  Annex 6, PART-OPS, Air operator, Aircraft operation, Operating procedures, Airplane equipment, Flight management, Airspa	Z,ZK	3
04 DDV0			
21PPY2	Operational Procedures 2	ZK	4
Flight documen	ation and manuals, Icing and protection of the aircraft against icing, noise abatement procedures, Abnormal and emergency situation	is and procedures,	Runway
040014	contamination	717	
21PRJ1	Instrumentation 1	ZK	2
	on principles of instrumentation, electronic displays, basics of measurement - sensitivity and errors, engine instrumentation (pressure		II.
quantity and fuer ii	ow measurement, torque and EPR measurement), indication in other aircraft systems (position, fire and icing indication, vibration mor monitoring, aerometric instruments (sensors, altimeter, air speed indicator, VSI, ADC).	illoring, pressurisa	lion system
21PRJ2		ZK	3
	Instrumentation 2 pic instruments (turn indicator, attitude indicator, directional gyro), inertial instruments, recording and monitoring systems, warning sy		
Compass, gyrosco	(autopilot, flight director, autothrust), FMS, flight envelope protection, communication systems, flight computers.	sterris (TCAS, GF	/V3), Al C3
21PRKP	Practical Flight Planning	Z,ZK	4
	r raction in grit in armining properties. It is a final planning ince 2. fuel planning, PDP, RIF,RCF 3. ATC FPL 4. Preflight procedure and briefing-NOTAM + weather(METAR,SIGMET) 5. Jeppesen	,	- 1
	the planning- ICAO mapa, softwary 8. IFR flight planning- theory 9. PBN- RNAV, RNP 10. IFR flight planning- softwary 11. MRJT- OFF		
thoory 7. VI IC III	PET, PSR, PNR 14. practical VFR a IFR flight planning	12. 2101 0 0 100	1127 10.
21RDN	Radionavigation	Z,ZK	3
	nder (VDF), ADF, VOR and Doppler VOR, DME, ILS, MLS, ground ATC radar, weather Radar, SSR and transponder. Radar utilization		
	RNAV) - general philosophy, gauges and equipment, indication and sensors for RNAV, VOR/DME (RNAV). Autopilot and flight director.	•	
/ oa mangalion (i	and backups.	oatomio navigano	, 0,0.00
21SBP	Bachelor's Thesis Seminar	Z	1
_	mation sources. Citation, citation formats. The methodology of writing the thesis. Presentation of results. Formal requirements for the	_	- 1
	Requirements for journal articles. Publication ethics.		
21SIFR	Requirements for journal articles. Publication ethics.  IFR Communication	7	2
21SIFR Definitions, Terms.	IFR Communication	Z Standard words a	2 and phrases
Definitions, Terms,	IFR Communication Abbreviations, Q-codes, Transport message categories, Transmission technique,, Transmission of letters, numbers, time and symbols	, Standard words a	ind phrases
Definitions, Terms, for IFR flig	IFR Communication Abbreviations, Q-codes, Transport message categories, Transmission technique,, Transmission of letters, numbers, time and symbols this, Radar procedural phraseology, Standard phraseology and Morse code, Practical IFR radiotelephony procedures in normal and e	, Standard words a	ind phrases
Definitions, Terms, for IFR flig 21SVFR	IFR Communication Abbreviations, Q-codes, Transport message categories, Transmission technique,, Transmission of letters, numbers, time and symbols phts, Radar procedural phraseology, Standard phraseology and Morse code, Practical IFR radiotelephony procedures in normal and over the VFR Communication	, Standard words a mergency situation Z	nd phrases ns.
Definitions, Terms, for IFR flig 21SVFR	IFR Communication Abbreviations, Q-codes, Transport message categories, Transmission technique,, Transmission of letters, numbers, time and symbols plats, Radar procedural phraseology, Standard phraseology and Morse code, Practical IFR radiotelephony procedures in normal and every communication  Source of the procedure of the p	, Standard words a mergency situation Z	nd phrases ns.
Definitions, Terms, for IFR flig 21SVFR Course content	IFR Communication  Abbreviations, Q-codes, Transport message categories, Transmission technique,, Transmission of letters, numbers, time and symbols this, Radar procedural phraseology, Standard phraseology and Morse code, Practical IFR radiotelephony procedures in normal and e VFR Communication  s are based on PART FCL, part 090. It defines terms and abbreviations used in VFR communication. Phraseology and procedures in situations.	, Standard words a emergency situation Z standard and non-	nd phrases ns. 4 standard
Definitions, Terms, for IFR flig 21SVFR Course content 21TVFR	IFR Communication Abbreviations, Q-codes, Transport message categories, Transmission technique,, Transmission of letters, numbers, time and symbols this, Radar procedural phraseology, Standard phraseology and Morse code, Practical IFR radiotelephony procedures in normal and e VFR Communication s are based on PART FCL, part 090. It defines terms and abbreviations used in VFR communication. Phraseology and procedures in situations.  Theory for VFR Training	, Standard words a comergency situation Z standard and non-standard Z,ZK	nd phrases ns. 4 standard
Definitions, Terms, for IFR flig 21SVFR Course content 21TVFR Course content is	IFR Communication Abbreviations, Q-codes, Transport message categories, Transmission technique,, Transmission of letters, numbers, time and symbols thats, Radar procedural phraseology, Standard phraseology and Morse code, Practical IFR radiotelephony procedures in normal and every VFR Communication  s are based on PART FCL, part 090. It defines terms and abbreviations used in VFR communication. Phraseology and procedures in situations.  Theory for VFR Training  based on PPL(A) theory requirements according to Part-FCL. Lectures cover topics that are necessary to commence the practical particular description.	, Standard words a semergency situation Z standard and non-standard to farry to farry (ATP) standard to farry (ATP) standard training training standard stan	and phrases ans.  4 standard  8 ang, such as
Definitions, Terms, for IFR flig 21SVFR Course content 21TVFR Course content is	IFR Communication Abbreviations, Q-codes, Transport message categories, Transmission technique,, Transmission of letters, numbers, time and symbols this, Radar procedural phraseology, Standard phraseology and Morse code, Practical IFR radiotelephony procedures in normal and e VFR Communication s are based on PART FCL, part 090. It defines terms and abbreviations used in VFR communication. Phraseology and procedures in situations.  Theory for VFR Training	, Standard words a semergency situation Z standard and non-standard to farry to farry (ATP) standard to farry (ATP) standard training training standard stan	and phrases ans.  4 standard  8 ang, such as
Definitions, Terms, for IFR flip 21SVFR Course content 21TVFR Course content is principles of fligh	IFR Communication Abbreviations, Q-codes, Transport message categories, Transmission technique,, Transmission of letters, numbers, time and symbols this, Radar procedural phraseology, Standard phraseology and Morse code, Practical IFR radiotelephony procedures in normal and experience of the procedures of the procedure of the practical part, airframe and powerplant, aircraft systems, instrumentation, mass and balance, performance, air law and ATC procedures, meteorol navigation, radionavigation, VFR communication, flight planning and monitoring and human factor.	, Standard words a commergency situation Z standard and non-standard for ATP(A) training, openational process.	and phrases ans.  4 standard  8 ag, such as ocedures,
Definitions, Terms, for IFR flip 21SVFR Course content 21TVFR Course content is principles of fligh	IFR Communication Abbreviations, Q-codes, Transport message categories, Transmission technique,, Transmission of letters, numbers, time and symbols this, Radar procedural phraseology, Standard phraseology and Morse code, Practical IFR radiotelephony procedures in normal and experience of the procedural phraseology of the procedures in New Yerk Communication of the procedures in Standard phraseology and Morse code, Practical IFR radiotelephony procedures in New Yer Communication, Phraseology and Procedures in New Yer Communication phraseology and New Yer Communi	, Standard words a commerce of the standard and non-commerce of ATP(A) training, operational process.	and phrases ans.  4 standard  8 ang, such as occedures,
Definitions, Terms, for IFR flip 21SVFR Course content 21TVFR Course content is principles of fligh	IFR Communication Abbreviations, Q-codes, Transport message categories, Transmission technique,, Transmission of letters, numbers, time and symbols this, Radar procedural phraseology, Standard phraseology and Morse code, Practical IFR radiotelephony procedures in normal and experience of the procedures of the procedure of the practical part, airframe and powerplant, aircraft systems, instrumentation, mass and balance, performance, air law and ATC procedures, meteorol navigation, radionavigation, VFR communication, flight planning and monitoring and human factor.	, Standard words a emergency situation Z standard and non-standard for ATP(A) training, operational programmence class A, formance class A,	and phrases ans.  4 standard  8 ang, such as occedures,
Definitions, Terms, for IFR flip 21SVFR Course content 21TVFR Course content is principles of flight 21VL Basic terms of airc	IFR Communication Abbreviations, Q-codes, Transport message categories, Transmission technique,, Transmission of letters, numbers, time and symbols thats, Radar procedural phraseology, Standard phraseology and Morse code, Practical IFR radiotelephony procedures in normal and expension of letters, numbers, time and symbols thats, Radar procedural phraseology, Standard phraseology and Morse code, Practical IFR radiotelephony procedures in normal and expension of letters, numbers, time and symbols are based on PART FCL, part 090. It defines terms and abbreviations used in VFR communication. Phraseology and procedures in situations.  Theory for VFR Training based on PPL(A) theory requirements according to Part-FCL. Lectures cover topics that are necessary to commence the practical part, airframe and powerplant, aircraft systems, instrumentation, mass and balance, performance, air law and ATC procedures, meteorol navigation, radionavigation, VFR communication, flight planning and monitoring and human factor.  Aircraft Performance raft performance, basic characteristic speeds, runway characteristics, single and multiengine aircraft performance class B, aircraft per landing performance, after take off and missed approach climb, noise abatement procedures, range of aircraft, drift down, MEL, E	, Standard words a emergency situation Z standard and non-standard for ATP(A) training, operational processor Z,ZK formance class A, ETOPS.	and phrases ans.  4 standard  8 ang, such as occedures,  4 take off and
Definitions, Terms, for IFR flig.  21SVFR Course content  21TVFR Course content is principles of flight  21VL Basic terms of airc.	IFR Communication Abbreviations, Q-codes, Transport message categories, Transmission technique,, Transmission of letters, numbers, time and symbols ints, Radar procedural phraseology, Standard phraseology and Morse code, Practical IFR radiotelephony procedures in normal and expensions of letters, numbers, time and symbols ints, Radar procedural phraseology, Standard phraseology and Morse code, Practical IFR radiotelephony procedures in normal and expensions of letters, numbers, time and symbols in the procedures in situations.  The Communication  Theory for VFR Training  based on PPL(A) theory requirements according to Part-FCL. Lectures cover topics that are necessary to commence the practical part, airframe and powerplant, aircraft systems, instrumentation, mass and balance, performance, air law and ATC procedures, meteorol navigation, radionavigation, VFR communication, flight planning and monitoring and human factor.  Aircraft Performance  raft performance, basic characteristic speeds, runway characteristics, single and multiengine aircraft performance class B, aircraft per landing performance, after take off and missed approach climb, noise abatement procedures, range of aircraft, drift down, MEL, E  Project 1	, Standard words a emergency situation Z standard and non-standard for ATP(A) training, operational process A, ETOPS.	standard  8 sig, such as occedures,  4 take off and
Definitions, Terms, for IFR flight 1 for IFR flight 21SVFR Course content 21TVFR Course content is principles of flight 21VL Basic terms of airc 21X31 21X32	IFR Communication Abbreviations, Q-codes, Transport message categories, Transmission technique,, Transmission of letters, numbers, time and symbols of this, Radar procedural phraseology, Standard phraseology and Morse code, Practical IFR radiotelephony procedures in normal and of VFR Communication  so are based on PART FCL, part 090. It defines terms and abbreviations used in VFR communication. Phraseology and procedures in situations.  Theory for VFR Training based on PPL(A) theory requirements according to Part-FCL. Lectures cover topics that are necessary to commence the practical part, airframe and powerplant, aircraft systems, instrumentation, mass and balance, performance, air law and ATC procedures, meteorol navigation, radionavigation, VFR communication, flight planning and monitoring and human factor.  Aircraft Performance raft performance, basic characteristic speeds, runway characteristics, single and multiengine aircraft performance class B, aircraft per landing performance, after take off and missed approach climb, noise abatement procedures, range of aircraft, drift down, MEL, E  Project 1  Project 2	standard words a commergency situation   Z standard and non-standard and non-standard art of ATP(A) training ogy, operational processor   Z,ZK formance class A, ETOPS.	standard  8 sig, such as occedures,  4 take off and  2 2
Definitions, Terms, for IFR flight 21SVFR Course content 21TVFR Course content is principles of flight 21VL Basic terms of airc 21X31 21X32 21X33	IFR Communication Abbreviations, Q-codes, Transport message categories, Transmission technique,, Transmission of letters, numbers, time and symbols this, Radar procedural phraseology, Standard phraseology and Morse code, Practical IFR radiotelephony procedures in normal and a VFR Communication s are based on PART FCL, part 090. It defines terms and abbreviations used in VFR communication. Phraseology and procedures in situations.  Theory for VFR Training based on PPL(A) theory requirements according to Part-FCL. Lectures cover topics that are necessary to commence the practical part, airframe and powerplant, aircraft systems, instrumentation, mass and balance, performance, air law and ATC procedures, meteorol navigation, radionavigation, VFR communication, flight planning and monitoring and human factor.  Aircraft Performance raft performance, basic characteristic speeds, runway characteristics, single and multiengine aircraft performance class B, aircraft per landing performance, after take off and missed approach climb, noise abatement procedures, range of aircraft, drift down, MEL, E  Project 1  Project 2  Project 3	, Standard words a emergency situation Z standard and non-standard and non-standard for ATP(A) training, operational properties Z,ZK formance class A, ETOPS.	standard  8 sig, such as occedures,  4 take off and  2 2 2
Definitions, Terms, for IFR flight of IFR fl	IFR Communication Abbreviations, Q-codes, Transport message categories, Transmission technique,, Transmission of letters, numbers, time and symbols of this, Radar procedural phraseology, Standard phraseology and Morse code, Practical IFR radiotelephony procedures in normal and of VFR Communication  so are based on PART FCL, part 090. It defines terms and abbreviations used in VFR communication. Phraseology and procedures in situations.  Theory for VFR Training based on PPL(A) theory requirements according to Part-FCL. Lectures cover topics that are necessary to commence the practical part, airframe and powerplant, aircraft systems, instrumentation, mass and balance, performance, air law and ATC procedures, meteorol navigation, radionavigation, VFR communication, flight planning and monitoring and human factor.  Aircraft Performance raft performance, basic characteristic speeds, runway characteristics, single and multiengine aircraft performance class B, aircraft per landing performance, after take off and missed approach climb, noise abatement procedures, range of aircraft, drift down, MEL, E  Project 1  Project 2	, Standard words a emergency situation Z standard and non-standard and non-standard and properties of the standard and non-standard and non-standard and non-standard and non-standard and non-standard and properties of the standard and non-standard and non-stand	standard  8 sig, such as occedures,  4 take off and  2 2 2 2

041/450		1/7	
21Y1BS	Unmanned aircraft systems 1	KZ	2
Unmanned Aviation	n Development. Aircraft design. Legislation in force in the Czech Republic. Planning and execution of the flight. Airspace division. Ope	erational risks and	operational
	procedures. Practical flights.		
21Y1MP	Matlab for project-oriented study	KZ	2
The subject's syllal	ous is focused on the problem-solving during bachelor's thesis preparation and it is based on students' requests. Individual exercises	will be prepared a	according to
particular examp	es, based on actual students' needs and suggestions. The subject will have a flexible form, which is expected to bring an improveme	nt of students' Ma	tlab skills.
21Y1OH	Airline Business and Operations	KZ	2
The course provides	a comprehensive view of the commercial, operational and transportation activities of air transport companies. It focuses on the organiz	ational structure of	companies,
various aspects of t	neir strategy, economic and operational indicators. It introduces students in detail to operational processes and the essentials of transp	ortation processes	s. It provides
	a basic view of the economic aspects of air transport.		
21Y1RZ	Human Resources Management	KZ	2
The position of h	uman resources in the organization and related disciplines file. Substance, importance and challenges of human resources manage	ment. Internal and	external
environment of hum	an resource management. Human resource planning. Search, recruitment and selection of employees. Motivation, evaluation and ren	nuneration of staff.	Positioning,
	dismissal and redundancies of employees. Education of employees. Planning career management.		
21ZKL1	Principles of Flight 1	ZK	3
Aerodynamic drag,	relation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and pr	essures around wi	ng, 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 drag increase.		
21ZKL2	Principles of Flight 2	ZK	3
Static & amp; dyna	mic longitudinal stability, neutral point, location of centre of gravity, static directional & Department at ability, dynamic directional & Department at a stability, dynamic directional & Department at a stability direction at a stability dir	; lateral stability, c	ontrol pitch
(longitudinal), yay	(directional) & amp; roll (lateral), roll/yaw interaction, trimming, speed of sound, Mach number, compressibility, shock waves, critical	Mach number, ae	rodynamic
, , , , , , , , , , , , , , , , , , , ,	heating, operating limitations, manoeuvring envelope, gust-load diagram.		•
22X31	Project 1	Z	2
22X32	Project 2	Z	2
22X33	Project 3	Z	2
23X31	Project 1	Z	2
23X32	Project 2	Z	2
	Project 3	Z	2

For updated information see <a href="http://bilakniha.cvut.cz/en/FF.html">http://bilakniha.cvut.cz/en/FF.html</a> Generated: day 2025-04-29, time 22:05.