Recomended pass through the study plan

Name of the pass: Bachelor Full-Time PIL (EN) from 2025/26

Faculty/Institute/Others:

Department:

Pass through the study plan: Bachelor PIL (EN) Full-Time from 2024/25

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-E	Calculus 1 Ondřej Navrátil, Magdalena Hykšová Magdalena Hykšová Ondřej Navrátil (Gar.)	Z,ZK	7	2P+4C+22E	3 Z	Z
15JP1A-E	Foreign Language - English for PIL 1 Marek Tomeček, Dana Boušová, Jitka Heřmanová, Eva Rezlerová, Markéta Musilová, Markéta Vojanová, Lenka Monková Markéta Musilová Marek Tomeček (Gar.)	Z	2	0P+2C	Z	Z
210BN-E	General Navigation Iveta Kameníková, Denisa Svobodová, Paul Rousseau Paul Rousseau	ZK	5	4P+0C	Z	Z
11GIE-E	Geometry Šárka Voráčová Šárka Voráčová Šárka Voráčová (Gar.)	KZ	3	2P+2C+12E	B Z	Z
11LA-E	Linear Algebra Martina Bečvářová Martina Bečvářová (Gar.)	Z,ZK	3	2P+1C+10E	B Z	Z
21VFRT-E	Theory for VFR Training Filip Bartůněk, Jakub Kraus Filip Bartůněk	Z,ZK	6	4P+4C	Z	Z
21VFRC-E	VFR Communication Milan Kamenik Milan Kamenik	Z,ZK	4	2P+1C	Z	Z

Number of semester: 2

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
21LEY1-E	Air Law 1	ZK	3	3P+0C	L	Z
21LDA1-E	Aircraft 1 Max Chopart	Z,ZK	3	2P+1C	L	Z
21LAP1-E	Aviation English for Professional Pilot 1 Filip Havrda	Z	2	0P+2C	L	Z
11CAL2-E	Calculus 2 Magdalena Hykšová	Z,ZK	5	2P+3C	L	Z
21LPX1-E	Flight Training 1	KZ	2	0P+1C	L	Z
15JP2A-E	Foreign Language - English for PIL 2 Marek Tomeček (Gar.)	KZ	3	0P+2C	L	Z
21CON-E	Navigation Calculations Milan Kameník	KZ	2	0P+2C	L	Z
21ZYT1-E	Principles of Flight 1	Z,ZK	3	2P+1C	L	Z
11STAT-E	Statistics	Z,ZK	4	2P+2C	L	Z
21HAV-E	Weight and Balance of Aircraft Denisa Syobodová	Z,ZK	3	2P+2C	L	Z

Number of semester: 3

Code	Tutors, authors and guarantors (gar.)		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 Anna Polánecká	Z,ZK	4	2P+2C	Z	Z
21LDA2-E	Aircraft 2 Max Chopart, Michal Černý, Kiyofolo Benjamin Ouattara Kiyofolo Benjamin Ouattara	Z,ZK	4	2P+1C	Z	Z
21LAP2-E	Aviation English for Professional Pilot 2 Filip Havrda, Lukáš Zibner, Zdeněk Ovečka	Z,ZK	3	0P+4C	Z	Z
21LPX2-E	Flight Training 2 Iveta Kameníková, Jakub Hospodka, Jakub Charezinski, Roman Matyáš Iveta Kameníková	KZ	2	0P+1C	Z	Z
15JZ3A-E	Foreign Language - English 3 Dana Boušová, Jitka Heřmanová, Eva Rezlerová, Markéta Musilová, Markéta Vojanová, Lenka Monková, Peter Morpuss, Marie Michlová, Jan Feit Marek Tomeček (Gar.)		3	0P+4C	Z	Z
21PUP1-E	Instrumentation 1 Pavel Hovorka	ZK	3	2P+0C	Z	Z
11FYZ-E	Physics Tomáš Vítů, Antonio Cammarata, Jana Kuklová, Zuzana Malá Jana Kuklová Pavel Demo (Gar.)	Z,ZK	5	2P+2C+18B	Z	Z
21RNV-E	Radionavigation Jan Žižka Jan Žižka	Z,ZK	4	3P+1C	Z	Z
11SCFZ-E	Seminar of Physics Tomáš Vítů, Antonio Cammarata, Jana Kuklová, Zuzana Malá Tomáš Vítů Tomáš Vítů (Gar.)	Z	0	0P+2C	Z	V

Number of semester: 4

Code	Tutors, authors and guarantors (gar.)		Credits	Scope	Semester	Role	
21AFL1-E	Advanced Flying 1	Z,ZK	3	2P+1C	L	Z	
14AP-E	Algorithm and Programming	KZ	4	2P+2C	L	Z	
21SBU1-E	Bachelor Thesis Seminar 1 Lenka Hanáková	Z	1	1P+0C	L	Z	
11EMO-E	Electromagnetic Field and Optics Tomáš Vítů	Z,ZK	4	2P+1C	L	Z	
21PML-E	Flight Planning and Monitoring Anna Polánecká	Z,ZK	3	2P+2C	L	Z	
21LPX3-E	Flight Training 3	KZ	2	0P+1C	L	Z	
15JZ4A-E	Foreign Language - English 4 Marek Tomeček (Gar.)	Z,ZK	3	0P+4C	L	Z	
21IFRC-E	IFR Communication Milan Kameník	KZ	2	1P+1C	L	Z	
21PRJ2-E	Instrumentation 2 Pavel Hovorka	ZK	3	2P+0C	L,Z	Z	
21MEE1-E	Meteorology 1 Iveta Kameníková	Z,ZK	3	2P+2C	L	Z	
11SEMO-E	Seminar of Electromagnetic Field and Optics Tomáš Vítů	Z	0	0P+2C	L	ZP	
		Min. cours.					
V4 DD DII EN 05/00	Projekty Bc. prezenční PIL (EN) od 2025/26	3	Min/Max				
X1-BP-PIL-EN-25/26	11X32P-E,16X31-E, (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-E	Air Law 2 Hamidreza Shoaee	ZK	3	3P+0C	Z	Z
21SBU2-E	Bachelor Thesis Seminar 2 Lenka Hanáková	Z	1	1P+0C	Z	Z

21LPX4-E	Flight Training 4 Iveta Kameníková, Jakub Hospodka, Jakub Charezinski, Roman Matyáš Iveta Kameníková	KZ	2	0P+1C	Z	Z
21LILE-E	Human Factors in Aviation Lenka Hanáková, Boris Oniščenko Boris Oniščenko	KZ	3	4P+0C	Z	Z
21MET2-E	Meteorology 2 Iveta Kameniková Iveta Kameniková	Z,ZK	5	2P+2C	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, Ota Hajzler Ota Hajzler	Z,ZK	4	2P+2C	Z	Z
21ZYT2-E	Principles of Flight 2 Vladimír Machula Vladimír Machula	Z,ZK	3	2P+1C	Z	Z
X1-BP-PIL-EN-25/26	Projekty Bc. prezenční PIL (EN) od 2025/26 11X32P-E,16X31-E, (see the list of groups below)	Min. cours. 3 Max. cours. 3	Min/Max 6/6			ZP
Y1-BP-PIL-EN-25/26	PVP-B Bc. prezenční PIL (EN) od 2025/26 15Y1ZV-E,21Y1MP-E, (see the list of groups below)	Min. cours. 2 Max. cours. 2	Min/Max 4/4			PV

Number of semester: 6

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Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
21PKL2-E	Advanced Flying 2	ZK	2	2P+0C	L,Z	Z
21LEIS-E	Aerodromes Ladislav Capoušek	Z,ZK	3	2P+1C	L	Z
21ELDO-E	Air Transport Economy	Z,ZK	3	3P+1C	L	Z
21LCM-E	Aircraft Engines	Z,ZK	3	2P+1C	L	Z
21SBU3-E	Bachelor Thesis Seminar 3	Z	1	1P+0C	L	Z
21KPSL-E	Communication and Surveillance Systems in Aviation	ZK	3	2P+0C	L	Z
21LPX5-E	Flight Training 5	KZ	2	0P+1C	L	Z
21KSA-E	KSA Assessment	KZ	2	0P+2C	L	Z
21LVIP-E	MCC - Multicrew Cooperation	KZ	2	2P+1C	L	Z
11MSP-E	Modeling of Systems and Processes Jana Kuklová	Z,ZK	4	2P+2C	L	Z
21PRY2-E	Operational Procedures 2	ZK	3	3P+0C	L	Z
X1-BP-PIL-EN-25/26	Projekty Bc. prezenční PIL (EN) od 2025/26 11X32P-E,16X31-E, (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 specificat	of courses an ion see here	d codes of members of this or below the list of courses	Com	pletion	Credit	s Scope	Semester	Role
X1-BP-PIL	EN-25/26	Projekty Bc	. prezenční P	PIL (EN) od 2025/26		cours. 3 cours. 3	Min/Ma	ıx		ZP
11X32P-E	Project 2 F	PIL-EN	16X31-E	Project 1	<u> </u>	17X31-E	<u> </u>	Project 1		
18X31-E	Project 1		20X31-E	Project 1		21X31-E		Project 1		
22X31-E	Project 1		12X32P-E	Project 2 PIL-EN		14X32P-	E I	Project 2 PIL-	EN	
15X32P-E	Project 2 F	PIL-EN	16X32P-E	Project 2 PIL-EN		17X32P-	E I	Project 2 PIL-	EN	
18X32P-E	Project 2 F	PIL-EN	20X32P-E	Project 2 PIL-EN		21X32P-	E I	Project 2 PIL-	EN	
22X32P-E	Project 2 F	PIL-EN	16X33-E	Project 3		17X33-E		Project 3		
18X33-E	Project 3		20X33-E	Project 3		21X33-E		Project 3		

22X33-E	Project 3		11X31-E Project 1			15X31-E		Project 1		
14X31-E	Project 1		12X31-E Project 1			12X33-E		Project 3		
14X33-E	Project 3		11X33-E	Project 3		15X33-E		Project 3		
Y1-BP-PIL	EN-25/26	PVP-B Bc.	prezenční Pl	L (EN) od 2025/26		cours. 2 . cours. 2	Min/M	ax		PV
15Y1ZV-E	East-West	dichotomy: Prelude to	21Y1MP-E	E Matlab for project-oriented stud		21Y1OH	-E	Airline Busine	ss and Operat	tions
15Y1BO-E	Work Safet	ty and Health Protectio	15Y1HL-E	History of Civil Aviation		17Y1LL-	E	Logistics of P	assenger and	Freig
18Y1MT-E	Engineerin	g Materials	erials 18Y1PD-E Computer Simulations in Transpor			18Y1PS-	·E	Computer Sin	nulations in Me	echanic
21Y1BC-E	Aviation sa	fety and security	21Y1BS-E	21Y1BS-E Unmanned aircraft systems 1		21Y1RZ-	·E	Human Resor	urces Manage	ment
00Y1XB	Active part	icipation in a scient								

List of courses of this pass:

Code	Name of the course	Completion	Credits
00Y1XB	Active participation in a scientific project, workshop, short-term trip abroad	KZ	2
11CAL1-E	Calculus 1	Z,ZK	7
Sequence of real r	umbers and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative. Geometric properties of n-dir	nensional Euklidea	n space and
Cartesi	an coordinate system. Geometric meaning of the differential of functions several real variables, differential calculus of functions of se	veral real variables	i.
11CAL2-E	Calculus 2	Z,ZK	5
Indefinite integral,	Newtonian integral, Riemannian integral of the function of one variable, improper Riemannian integral, Riemannian integral in Rn. Pa	arametric descriptio	n of regular
k-dimensional su	rfaces in Rn, Riemannian integral over regular surfaces. Line and surface integrals of the second type, Stokes theorems, ordinary dit	fferential equations	of the first
	order, linear differential equations with constant coefficients and its systems		
11EMO-E	Electromagnetic Field and Optics	Z,ZK	4
	Electric field. Electric current. Magnetic field. Electromagnetic field. Optics. Basics of solid-state physics.		
11FYZ-E	Physics	Z,ZK	5
	Kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodynamics.		•
11GIE-E	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-E	Linear Algebra	Z,ZK	3
Vector spaces (line	ear combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and the	eir solvability. Deter	minants and
	their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classifications	tion.	
11MSP-E	Modeling of Systems and Processes	Z,ZK	4
Mathematical met	hods and algorithms as a basis for system analysis. Methods for modelling and evaluating the systems in continuous and discrete tir	ne domain. Laplace	transform,
z-transform, and th	e recursive algorithms in solution of differential and difference equations, as an instrument for system description. Practical use of te	chnical computing	environment
	(MATLAB).		
11SCFZ-E	Seminar of Physics	Z	0
	Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermod	ynamics.	•
11SEMO-E	Seminar of Electromagnetic Field and Optics	Z	0
	Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.		1
11STAT-E	Statistics	Z,ZK	4
Definition of probab	ilility, random variable and its description, known distributions, random vector, function of random variable. Methods of point estimation.	Testing of statistical	hypothesis.
Regression and co	rrelation, linear regression, correlation coefficient, coefficient of determination, the general linear model, statistical inference in linear m	egression, analysis	of variance,
	multiple regression, the use of matrices in regression.		
11X31-E	Project 1	Z	2
11X32P-E	Project 2 PIL-EN	Z	2
11X33-E	Project 3	Z	2
12X31-E	Project 1	Z	2
12X32P-E	Project 2 PIL-EN	Z	2
12X33-E	Project 3	Z	2
14AP-E	Algorithm and Programming	KZ	4
	Algorithm and Programming epresentation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, searching a	1	
•	epresentation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, searching at pple, dictionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, ins		
שמום ואףכט נטכו, וני	programming	Sa Guadaott II IIO ODJE	or oriented
14X31-E	Project 1	Z	2
14X32P-E		Z	
	Project 2 PIL-EN		2
14X33-E	Project 3	Z	2

15JP1A-E	Foreign Language - English for PIL 1	Z	2
•	nguage skills within spoken and written form of the language with the focus on aviation English. Practice of comprehension of authent	•	
pronunciation and	fluency of spoken language. Aviation phraseology in combination with general English. Revision and improvement of grammar structions of the combination with general English. Revision and improvement of grammar structions of the combination with general English.	ures, syntax and v	ocabulary.
45 1004 5	Topics related to air transport and occupation of pilot and air staff.	147	
15JP2A-E	Foreign Language - English for PIL 2	KZ	3
•	nguage skills within spoken and written form of the language with the focus on aviation English. Practice of comprehension of authent		
pronunciation and	fluency of spoken language. Aviation phraseology in combination with general English. Revision and improvement of grammar struction. Topics related to air transport and occupation of pilot and air staff.	ures, syritax and v	ocabulary.
15JZ3A-E	Foreign Language - English 3	7	3
	and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Faculty's		
	ceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral and		
	and their features; terminology.	a	annour toxto
15JZ4A-E	Foreign Language - English 4	Z.ZK	3
l l	and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Faculty's fi	, ,	-
	ceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral an		
	and their features; terminology.		
15X31-E	Project 1	Z	2
15X32P-E	Project 2 PIL-EN	Z	2
15X33-E	Project 3	Z	2
15Y1BO-E	Work Safety and Health Protection in Transportation	KZ	2
	lative, definition of terms, risks and possible health damage, working conditions and health protection with focus on transportation. He		
· ·	health insurance of home and foreign business trips, statistics, working practice.		
15Y1HL-E	History of Civil Aviation	KZ	2
	nings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of airports in the Czech Republic. World airports. Airli	ines of the world.	Helicopters.
CS	A airplanes. Famous aviators. Classic era of aviation. Golden era of civil aviation. Supersonic flying. Modern era of civil aviation. Flying	g in the world.	
15Y1ZV-E	East-West dichotomy: Prelude to the Cold War	KZ	2
Historical prologue,	evolution of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continuit	ty of the internation	nal relations
in the end of 19th	century and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the	causes and cons	equences.
	Economic and financial history. Social changes. Discussions on texts, sources.		
16X31-E	Project 1	Z	2
16X32P-E	Project 2 PIL-EN	Z	2
16X33-E	Project 3	Z	2
17X31-E	Project 1	Z	2
17X32P-E	Project 2 PIL-EN	Z	2
17X33-E	Project 3	Z	2
17Y1LL-E	Logistics of Passenger and Freight Air Transport	KZ	2
	ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial trans		engers and
	air cargo. Information systems in air transport. Global distribution systems.		ŭ
18X31-E	Project 1	Z	2
18X32P-E	Project 2 PIL-EN	Z	2
18X33-E	Project 3		
		Z	2
18Y1MT-F		Z K7	2
18Y1MT-E Systematic overvie	Engineering Materials	KZ	2
Systematic overvie		KZ composites, atter	2
Systematic overvie	Engineering Materials w of main classes of materials used in technical design. In addition to main classes of materials, i. e. metals, ceramics, polymers and orgical materials and to biomimetics. Integral approach to material selection process is also demonstrated based on so called Ashby's	KZ composites, atter	2 ition is paid
Systematic overvie to biolo 18Y1PD-E	Engineering Materials w of main classes of materials used in technical design. In addition to main classes of materials, i. e. metals, ceramics, polymers and	KZ composites, atten selection charts.	2 ition is paid 2
Systematic overvieto biologo to b	Engineering Materials w of main classes of materials used in technical design. In addition to main classes of materials, i. e. metals, ceramics, polymers and original materials and to biomimetics. Integral approach to material selection process is also demonstrated based on so called Ashby's Computer Simulations in Transportation	KZ composites, atten selection charts. KZ elopment and adap	2 ation is paid 2 otation of
Systematic overvieto biologo to b	Engineering Materials w of main classes of materials used in technical design. In addition to main classes of materials, i. e. metals, ceramics, polymers and original materials and to biomimetics. Integral approach to material selection process is also demonstrated based on so called Ashby's Computer Simulations in Transportation verview of programs for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model dever	KZ composites, atten selection charts. KZ elopment and adap ditions and applica	2 ation is paid 2 otation of
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Systematic overvie to biolo 18Y1PD-E Principles and or geometry from oth 18Y1PS-E Principles and or	Engineering Materials w of main classes of materials used in technical design. In addition to main classes of materials, i. e. metals, ceramics, polymers and original materials and to biomimetics. Integral approach to material selection process is also demonstrated based on so called Ashby's Computer Simulations in Transportation Verview of programs for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model dever CAE systems. Assignment of material properties. The types of elements and their use. Discretization of solid model. Boundary con load. Basic tasks of structural and modal analysis. Introduction to complex nonlinear problems. Computer Simulations in Mechanics Verview of programs for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model dever	KZ composites, atten selection charts. KZ elopment and adap ditions and applica	2 ptation of the 2 ptation of the 2 ptation of the
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21IFRC-E	IFR Communication	KZ	2
	Abbreviations, Q-codes, Transport message categories, Transmission technique,, Transmission of letters, numbers, time and symbols		•
for IFR flig	hts, Radar procedural phraseology, Standard phraseology and Morse code, Practical IFR radiotelephony procedures in normal and	emergency situation	ns.
21KPSL-E	Communication and Surveillance Systems in Aviation	ZK	3
The course acqu	uaints students with communication and surveillance systems both from the perspective of the air segment (aircraft systems) and from		f ground
	infrastructure (ground systems), which together create the necessary prerequisites for ensuring safe, efficient and economical air to		
21KSA-E	KSA Assessment	KZ	2
Communication.	Management of flight path. Automation of flight. Leadership and teamwork. Problem solving. Decision making. Situation awarness. W	orkload manageme	nt. Upset
041.454.5	preventation and recovery training. Mental math.		
21LAP1-E	Aviation English for Professional Pilot 1	Z	2
	d on continuous reading specialized texts, vocabulary extension of technical English, terminology in the sphere of aircraft construction		ιτ, aircraπ
	engines, instruments and systems, analyzes relating to topics of air traffic, operational procedures, relevant legislation and operators		
21LAP2-E	Aviation English for Professional Pilot 2	Z,ZK	3
Exercises locused	I on repetition and smoother communication within VFR and IFR communication, communication with technical staff at the airport, a airlines.	nuent conversation	within the
21LCM-E	Aircraft Engines	Z,ZK	3
	All Graft Engines ine, theoretical background, operational characteristics and construction schemes. Propellers, operational characterictics. Turbine er		
· -	onstruction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational ch	-	-
21LDA1-E	Aircraft 1	Z,ZK	3
	nd conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and ca		_
	Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic	_	
21LDA2-E	Aircraft 2	Z,ZK	4
	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		•
21LEIS-E	Aerodromes	Z,ZK	3
	s. Applicability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Ma		
	arkers. Visual aids for denoting obstacles. Obstacle restriction, removal. Visual aids for navigation, lights, approach lighting systems.		
	systems. Runway lights. Taxiway lights. Visual aids for denoting obstacles.		
21LEY1-E	Air Law 1	ZK	3
Air Law; ICAO Do	c 7300; ICAO Doc 7500 and 9626; International Organizations: ICAO, IATA, EASA, EUROCONTROL; airworthiness; ICAO Annexes;	Commission regula	ation (EU)
	965/2012		
21LEY2-E	Air Law 2	ZK	3
	ed on the issue of commercial commercial air transport in accordance with applicable European legislation. Within the course, the issu	_	=
	965/2012, regulation no. 1321/2014 and ICAO Annexes, which significantly affect the form, method and structure of commercial air to	ransport and transp	ortation.
21LILE-E	Human Factors in Aviation	KZ	3
Human factors in	aviation. Breathing, atmosphere. Heart and circulation. Radiation. Human sensory organs, nervous system. Vision, hearing, illusions		e, fatigue,
	wakefulness and sleep. Information processing, human error. Cockpit management. Behaviour and workload. Automation. Core com		
21LPTY-E	Aircraft Operations	ZK	2
	Aircraft oppration for cruise, approach, final approach, missed approach, hodling, PBN, augmented GNSS, aviation charts for IF		
21LPX1-E	Flight Training 1	KZ	
	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	_	
exercises, solo ili	ghts and navigation flights. This course is intended only for long-term student, who are in integrated pilots training and study all cours (Professional Pilot) in all three years.	ses related to Study	/ IIela PIL
21LPX2-E	Flight Training 2	KZ	2
	Filgrit Tailling 2 s for improvement of theoretical knowledge in a range MEP land and IFR from the relevant subjects in accordance with Part FCL.Th		
	nergency procedures, descents and navigation flights. This course is intended only for long-term student, who are in integrated pilots		
,	related to Study field PIL (Professional Pilot) in all three years.	g, .	
21LPX3-E	Flight Training 3	KZ	2
/.0 _	Deepening of theoretical knowledge and practical examination of progress in professional competence in pilot skills and knowl		_
21LPX4-E	Flight Training 4	KZ	2
	Deepening of theoretical knowledge and practical examination of progress in professional competence in pilot skills and knowl		_
21LPX5-E	Flight Training 5	KZ	2
	Deepening of theoretical knowledge and practical examination of progress in professional competence in pilot skills and knowl	1	_
21LVIP-E	MCC - Multicrew Cooperation	KZ	2
	is in relation to human factor. MCC - basic principles, phases and methods within the area of air transport. CRM - leadership, situation		
	process, communication, effect of stress to the multi-crew performance, standard operational procedures, automation.		· ·
21MEE1-E	Meteorology 1	Z,ZK	3
	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-fronta	l cyclone.	
21MET2-E	Meteorology 2	Z,ZK	5
Climatic zones, t	ropical climatology, meteorological situation of mid-latitudes. Icing, turbulence, wind shear, thunderstorms, tornadoes, flying in the str	1 1	in areas,
	reducing visibility phenomena. Observation, weather maps, important information for flight planning.		
210BN-E	General Navigation	ZK	5
	de and longitude. Reference systems. Circles on the Earth and distance. Calculations. Time. Magnetism and sirections. Wind and Spe		-
Calculations: navig	ation computer conversions, TAS, rates. Calculations: 1 in 60 and navigation computer track and GS. Projections. Charts. VFR navigation	ation. Nav Log prepa	aration 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	=	
energy manage	ment, stabilized approach and landing errors, jet - performance - engine out flight, jet - handling - engine out flight go around, UPRT, operations, operation manuals, MEL procedures and deviations, flight time limitation	voicanic ash, cold	weather
	operations, operation manuals, will procedures and deviations, hight time limitation		

21PML-E	Flight Planning and Monitoring	Z,ZK	3
ZII WIL L	Flight planning for VFR flights for small, single- and multi-engine aeroplanes	,	
21PPY1-E	Operational Procedures 1 Annex 6, PART-OPS, Air operator, Aircraft operation, Operating procedures, Airplane equipment, Flight management, Airspa	Z,ZK ice	3
21PRJ2-E	Instrumentation 2	ZK	3
Compass, gyrosco	pic instruments (turn indicator, attitude indicator, directional gyro), inertial instruments, recording and monitoring systems, warning sy (autopilot, flight director, autothrust), FMS, flight envelope protection, communication systems, flight computers	stems (TCAS, GP	WS), AFCS
21PRKP-E	Practical Flight Planning	Z,ZK	4
	ce 2. fuel planning, PDP, RIF,RCF 3. ATC FPL 4. Preflight procedure and briefing-NOTAM + weather(METAR,SIGMET) 5. Jeppesen		ı nt planning-
theory 7. VFR flig	pht 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	12. ETOPS a NA	T HLA 13.
21PRY2-E	Operational Procedures 2	ZK	3
Flight document	ation and manuals, Icing and protection of the aircraft against icing, noise abatement procedures, Abnormal and emergency situation contamination	s and procedures	, Runway
21PUP1-E	Instrumentation 1	ZK	3
Basic classification	and construction of flight instruments, electric systems, power plant sensors and instruments, airframe sensors and instruments, measured integrated instrument systems.	rement of air data	parameters
21RNV-E	Radionavigation	Z,ZK	4
	nder (VDF), ADF, VOR and Doppler VOR, DME, ILS, MLS, ground ATC radar, weather Radar, SSR and transponder. Radar utilization		1
Area navigation (F	RNAV) - general philosophy, gauges and equipment, indication and sensors for RNAV, VOR/DME (RNAV). Autopilot and flight director, and backups.	Satellite navigation	n, systems
21SBU1-E	Bachelor Thesis Seminar 1	Z	1
Types of thesis (rev	view, applied research, basic research, thesis dealing with design proposals). Working with citation sources (citation sources, citation of e). Analyzing the state of the art (standards of research writing). Defining the limitations of the state of the art. Introduction to the thes		styles, how
21SBU2-E	Bachelor Thesis Seminar 2	Z	1
	nesis writing (introduction, analysis of the current state, specification of the problem, objectives and hypotheses). Definition of materia otaining results, presentation and discussion of results, formulation of thesis conclusions. Basics of LaTeX, working with LaTeX and W		pproach to
21SBU3-E	Bachelor Thesis Seminar 3	Z	1
	whic design of the thesis. Data collection and presentation, basic statistical reasoning, validation of results and designs. Achieving the evaluation of hypothesis tests. Preparation of the presentation, principles of presentation of the thesis.	_	nesis and
21VFRC-E	VFR Communication	Z,ZK	4
	s are based on PART FCL, part 090. It defines terms and abbreviations used in VFR communication. Phraseology and procedures in situations.		1
21VFRT-E	Theory for VFR Training	Z.ZK	6
	based on PPL(A) theory requirements according to Part-FCL. Lectures cover topics that are necessary to commence the practical part	,	_
	t, 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.		
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 per		take off and
	landing performance, after take off and missed approach climb, noise abatement procedures, range of aircraft, drift down, MEL, E	FTOPS	
21X31-E	Project 1		
21X32P-E	Project 1	Z	2
	Project 2 PIL-EN	Z Z	2
21X33-E	Project 2 PIL-EN Project 3	Z Z Z	2
21Y1BC-E	Project 2 PIL-EN Project 3 Aviation safety and security	Z Z Z KZ	2 2 2
21Y1BC-E History o	Project 2 PIL-EN Project 3 Aviation safety and security f safety and security development in aviation. Modern tools for safety and security management. Research and development of safe a	Z Z Z KZ and secure system	2 2 2 s.
21Y1BC-E History of 21Y1BS-E	Project 2 PIL-EN Project 3 Aviation safety and security f safety and security development in aviation. Modern tools for safety and security management. Research and development of safe a Unmanned aircraft systems 1	Z Z Z KZ and secure system	2 2 2 ss.
21Y1BC-E History of 21Y1BS-E	Project 2 PIL-EN Project 3 Aviation safety and security f safety and security development in aviation. Modern tools for safety and security management. Research and development of safe a Unmanned aircraft systems 1 n Development. Aircraft design. Legislation in force in the Czech Republic. Planning and execution of the flight. Airspace division. Ope	Z Z Z KZ and secure system	2 2 2 ss.
21Y1BC-E History of 21Y1BS-E Unmanned Aviation	Project 2 PIL-EN Project 3 Aviation safety and security f safety and security development in aviation. Modern tools for safety and security management. Research and development of safe a Unmanned aircraft systems 1 n Development. Aircraft design. Legislation in force in the Czech Republic. Planning and execution of the flight. Airspace division. Ope procedures. Practical flights.	Z Z KZ And secure system KZ erational risks and	2 2 2 s. 2 operationa
21Y1BC-E History of 21Y1BS-E Unmanned Aviation 21Y1MP-E	Project 2 PIL-EN Project 3 Aviation safety and security f safety and security development in aviation. Modern tools for safety and security management. Research and development of safe a Unmanned aircraft systems 1 n Development. Aircraft design. Legislation in force in the Czech Republic. Planning and execution of the flight. Airspace division. Ope	Z Z Z KZ and secure system KZ erational risks and	2 2 2 ss. 2 operational
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