Recomended pass through the study plan

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

Faculty/Institute/Others: Department: Pass through the study plan: Bachelor PIL (EN) 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 se	emester: 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 Ond ej Navrátil, Magdalena Hykšová Magdalena Hykšová Ond ej Navrátil (Gar.)	Z,ZK	7	2P+4C+22B	Z	Z
210BN-E	General Navigation Denisa Svobodová Denisa Svobodová	ZK	5	4P+0C	Z	Z
11GIE-E	Geometry Šárka Vorá ová Šárka Vorá ová Šárka Vorá ová (Gar.)	KZ	3	2P+2C+12B	Z	Z
11LA-E	Linear Algebra Martina Be vá ová Martina Be vá ová Martina Be vá ová (Gar.)	Z,ZK	3	2P+1C+10B	Z	Z
21TVFR-E	Theory for VFR Training	Z,ZK	8	4P+4C	Z	Z
21SVFR-E	VFR Communication Milan Kameník	Z	4	2P+1C	Z	Z

Number of se	emester: 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
21LTP1-E	Air Law 1 Radoslav Zozu ák	KZ	3	3P+0C	L	Z
21LDA1-E	Aircraft 1 Vladimír Plos, Max Chopart Max Chopart Vladimír Plos (Gar.)	Z,ZK	3	2P+1C	L	Z
11CAL2-E	Calculus 2 Ond ej Navrátil, Magdalena Hykšová Magdalena Hykšová Ond ej Navrátil (Gar.)	Z,ZK	5	2P+3C	L	Z
21LPX1-E	Flight Training 1 Iveta Kameníková, Jakub Hospodka	KZ	2	0P+1C	L	Z
15JZ1A-E	Foreign Language - English 1	Z	3	0P+4C+10B	5 L	Z
21PRJ1-E	Instrumentation 1	ZK	2	2P+0C	L	Z
21CON-E	Navigation Calculations Milan Kameník, Paul Rousseau Milan Kameník	КZ	2	0P+2C	L	Z
21ZKL1-E	Principles of Flight 1 Vladimír Machula	ZK	3	2P+1C	L	Z
11STAT-E	Statistics Ivan Nagy, Tetiana Reznychenko Tetiana Reznychenko Evženie Uglickich (Gar.)	Z,ZK	4	2P+2C	L	Z
21HAV-E	Weight and Balance of Aircraft Ota Hajzler Denisa Svobodová Anna Polánecká (Gar.)	Z,ZK	3	2P+2C	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
21EKL-E	Air Transport Economy Eva Endrizalová	Z,ZK	3	2P+1C	Z	Z
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
21LTA2-E	Aircraft 2 Max Chopart	Z,ZK	2	2P+1C	Z	Z
21APL1-E	Aviation English 1 for Professional Pilot	Z	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
15JZ2A-E	Foreign Language - English 2	Z,ZK	3	0P+4C	Z	Z
21PRJ2-E	Instrumentation 2 Pavel Hovorka Pavel Hovorka	ZK	3	2P+0C	L,Z	Z
11FYZ-E	Physics Tomáš Vít, Antonio Cammarata, Jana Kuklová, Zuzana Malá Jana Kuklová Pavel Demo (Gar.)	Z,ZK	5	2P+2C+18B	Z	Z
21RDN-E	Radionavigation	Z,ZK	3	3P+1C	Z	Z
11SCFZ-E	Seminar of Physics Tomáš Vít , Antonio Cammarata, Jana Kuklová, Zuzana Malá Tomáš Vít Tomáš Vít (Gar.)	Z	0	0P+2C	z	V

Number of semes	ster: 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
21PKL1-E	Advanced Flying 1	KZ	4	2P+2C	L	Z
21APL2-E	Aviation English 2 for Professional Pilot	Z,ZK	3	0P+4C	L	Z
11EMO-E	Electromagnetic Field and Optics Tomáš Vít, Antonio Cammarata, Zuzana Malá Tomáš Vít, 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-E	Flight Training 3 Iveta Kameníková, Jakub Hospodka	KZ	2	0P+1C	L	Z
21LCLT-E	Human Factors in Aviation	ZK	3	3P+0C	L	Z
21SIFR-E	IFR Communication	Z	2	1P+1C	L	Z
21MRG1-E	Meteorology 1	KZ	3	2P+2C	L	Z
11MSP-E	Modeling of Systems and Processes Jana Kuklová	Z,ZK	4	2P+2C	L	Z
11SEMO-E	Seminar of Electromagnetic Field and Optics Tomáš Vít, Antonio Cammarata, Zuzana Malá Tomáš Vít Tomáš Vít (Gar.)	Z	0	0P+2C	L	ZP
		Min. cours.				
X1-BP-PIL-EN-22/23	Projekty Bc. prezen ní PIL (EN) od 2022/23	3	Min/Max			ZP
//-DI -I IL²LIN•22/20	11X31-E,12X31-E, (see the list of groups below)	Max. cours.	6/6			25
		3				

Number of ser	mester: 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
21PKL2-E	Advanced Flying 2 Viktor Valenta Viktor Valenta	ZK	2	2P+0C	L,Z	Z
21LTP2-E	Air Law 2 Radoslav Zozu ák Radoslav Zozu ák	Z,ZK	3	3P+0C	Z	Z
21SBP-E	Bachelor's Thesis Seminar Lenka Hanáková, Vladimír Socha Vladimír Socha	Z	1	0P+1C	Z	Z
21LPX4-E	Flight Training 4 Iveta Kameníková, Jakub Hospodka, Jakub Charezinski, Roman Matyáš Iveta Kameníková	КZ	2	0P+1C	z	Z

15JZ3A-E	Foreign Language - English 3 Dana Boušová, Jitka He manová, Peter Morpuss, Marie Michlová, Markéta Musilová, Lenka Monková, Jan Feit, Eva Rezlerová, Markéta Vojanová	Z	3	0P+4C	Z	z
21MET2-E	Meteorology 2 Iveta Kameníková Iveta Kameníková	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, Anna Polánecká Ota Hajzler	Z,ZK	4	2P+2C	Z	Z
21ZKL2-E	Principles of Flight 2 Vladimír Machula Vladimír Machula	ZK	3	2P+1C	Z	Z
X1-BP-PIL-EN-22/23	Projekty Bc. prezen ní PIL (EN) od 2022/23 11X31-E, 12X31-E, (see the list of groups below)	Min. cours. 3 Max. cours. 3	Min/Max 6/6			ZP
Y1-BP-PIL-EN-24/25	PVP-B Bc. prezen ní PIL (EN) od 2024/25 15Y1EH-E,15Y1HE-E, (see the list of groups below)	Min. cours. 2 Max. cours. 2	Min/Max 4/4			PV

Number of semes	ster: 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
21LEIS-E	Aerodromes Ladislav Capoušek, Slobodan Stoji Ladislav Capoušek	Z,ZK	3	2P+1C	L	Z
21LCM-E	Aircraft Engines Vladimír Machula Jakub Kraus (Gar.)	Z,ZK	3	2P+1C	L	Z
14AP-E	Algorithm and Programming Vít Fábera, Michal Je ábek, Júlia Škovierová Vít Fábera Vít Fábera (Gar.)	KZ	4	2P+2C	L	Z
21KPSL-E	Communication and Surveillance Systems in Aviation	ZK	3	2P+0C	L	Z
21LPX5-E	Flight Training 5 Iveta Kameníková, Jakub Hospodka	KZ	2	0P+1C	L	Z
15JZ4A-E	Foreign Language - English 4 Jitka He manová, Peter Morpuss, Marie Michlová, Markéta Musilová, Lenka Monková, Jan Feit, Eva Rezlerová, Markéta Vojanová, Barbora Horá ková	Z,ZK	3	0P+4C	L	Z
21KSAV-E	KSA Assessment Radoslav Zozu ák Radoslav Zozu ák	Z,ZK	2	0P+2C	L	Z
21LVPK-E	MCC - Multicrew Cooperation Vladislav Pružina	Z	2	2P+1C	L	Z
21PPY2-E	Operational Procedures 2 Ladislav Capoušek Ladislav Capoušek Ladislav Capoušek (Gar.)	ZK	4	3P+0C	L	Z
X1-BP-PIL-EN-22/23	Projekty Bc. prezen ní PIL (EN) od 2022/23 11X31-E, 12X31-E, (see the list of groups below)	Min. cours. 3 Max. cours. 3	Min/Max 6/6			ZP
Y1-BP-PIL-EN-24/25	PVP-B Bc. prezen ní PIL (EN) od 2024/25 15Y1EH-E,15Y1HE-E, (see the list of groups below)	Min. cours. 2 Max. cours. 2	Min/Max 4/4			PV

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 ar	nd codes of members of this or below the list of courses	Com	pletion	Credit	s Scope	Semester	Role
					Min.	cours.				
						3	Min/Ma	x		
X1-BP-PIL-E	=N-22/23	Projekty Bc.	prezen ní F	PIL (EN) od 2022/23	Max	cours.	6/6			ZP
						3				
11X31-E	Project 1		12X31-E	Project 1		14X31-E		Project 1		
15X31-E	Project 1		16X31-E	Project 1		17X31-E		Project 1		

18X31-E	Project 1		20X31-E	Project 1		21X31-E	1	Project 1		
22X31-E	Project 1		23X31-E	Project 1		11X32-E		Project 2		
12X32-E	Project 2		14X32-E	Project 2		15X32-E		Project 2		
16X32-E	Project 2		17X32-E	Project 2		18X32-E		Project 2		
20X32-E	Project 2		21X32-E	Project 2		22X32-E		Project 2		
23X32-E	Project 2		11X33-E	Project 3		12X33-E		Project 3		
14X33-E	Project 3		15X33-E	Project 3		16X33-E		Project 3		
17X33-E	Project 3		18X33-E	Project 3		20X33-E		Project 3		
21X33-E	Project 3		22X33-E	Project 3		23X33-E		Project 3		
Y1-BP-PIL-	EN-24/25	PVP-B Bc. p	prezen ní PIL	(EN) od 2024/25		cours. 2 . cours. 2	Min/M 4/4	ax		PV
15Y1EH-E	Europoon	ntegration within Hist	15Y1HE-E	Work Hygiene and Ergonomics in	<u>г</u>	2 15Y1ZV-		East West die	hotomy: Prelu	do to
18Y1AM-E		Abbility and Safety of	18Y1EM-E	Experimental Methods in Mechanic		21Y1MJ-		Matlab for pro	,	ue to
21Y1MP-E		project-oriented stud	21Y10H-E	Airline Business and Operations		15Y1BO			and Health Pro	tectio
15Y1HL-E		Civil Aviation	17Y1LL-E	Logistics of Passenger and Freig		18Y1MT-		Engineering N		
18Y1MX-E		Transportation	18Y1PD-E	Computer Simulations in Transpor		18Y1PS-		<u> </u>	nulations in Me	chanic
21Y1BC-E		fety and security	21Y1BS-E	Unmanned aircraft systems 1		21Y1RZ-		•	urces Manage	
00Y1XB		icipation in a scient					-		areas manago	

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	numbers and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative. Geometric properties of n-c	limensional Euklidea	n space and
Cartes	sian coordinate system. Geometric meaning of the differential of functions several real variables, differential calculus of functions of	several real variables	
11CAL2-E	Calculus 2	Z,ZK	5
•	, Newtonian integral, Riemannian integral of the function of one variable, improper Riemannian integral, Riemannian integral in Rn. urfaces in Rn, Riemannian integral over regular surfaces. Line and surface integrals of the second type, Stokes theorems, ordinary 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 geom	etry of curves - parameterization, the arc of the curve, torsion and curvature, Frenet's trihedron. Kinematics - a curve as a trajector acceleration of a particle moving on a curved path.	y of the motion, the v	elocity, and
11LA-E	Linear Algebra	Z,ZK	3
11MSP-E	ear combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and t their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classific Modeling of Systems and Processes	-	4
	thods and algorithms as a basis for system analysis. Methods for modelling and evaluating the systems in continuous and discrete	,	
	the recursive algorithms in solution of differential and difference equations, as an instrument for system description. Practical use of (MATLAB).		
11SCFZ-E	Seminar of Physics	Z	0
	Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, therma	odynamics.	I
11SEMO-E	Seminar of Electromagnetic Field and Optics Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.	Z	0
11STAT-E	Statistics	Z,ZK	4
Definition of proba	bility, random variable and its description, known distributions, random vector, function of random variable. Methods of point estimation	1 '	hypothesis.
Regression and c	orrelation, linear regression, correlation coefficient, coefficient of determination, the general linear model, statistical inference in linear multiple regression, the use of matrices in regression.	regression, analysis	of variance
11X31-E	Project 1	Z	2
11X32-E	Project 2	Z	2
11X33-E	Project 3	Z	2
12X31-E	Project 1	Z	2
	Project 2		
12X32-E	FIDIECLZ	Z	2
12X32-E 12X33-E	Project 2 Project 3	Z Z	2

		1/7	4
	Algorithm and Programming	KZ	4
data tunan (ant tun	presentation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, searching an ple, dictionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, inst		
data types (set, tup		roduction into o	oject onentec
	programming	7	0
14X31-E	Project 1	Z	2
14X32-E	Project 2	Z	2
14X33-E	Project 3	Z	2
15JZ1A-E	Foreign Language - English 1	Z	3
	res and style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and con		ls. Elementar
	stylistics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles of	of rhetoric.	
15JZ2A-E	Foreign Language - English 2	Z,ZK	3
	res and style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and con		ls. Elementar
	stylistics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles of		-
15JZ3A-E	Foreign Language - English 3	Z	3
	and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Faculty's		
mprovement in perc	ceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral ar	nd written form.	Technical text
	and their features; terminology.		
15JZ4A-E	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 l		
mprovement in perc	ceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral ar	id written form.	lechnical tex
	and their features; terminology.		
15X31-E	Project 1	Z	2
15X32-E	Project 2	Z	2
15X33-E	Project 3	Z	2
15Y1BO-E	Work Safety and Health Protection in Transportation	KZ	2
Fundamental legisl	ative, definition of terms, risks and possible health damage, working conditions and health protection with focus on transportation. H	ealth protection	programmes
	health insurance of home and foreign business trips, statistics, working practice.		
15Y1EH-E	European Integration within Historical Context	KZ	2
Versailles system, f	ormation of new states. Europe and the powers, League of Nations. European policy in the 1920s. Fascism, nacism, communism. Li	ttle Entente, its p	principles an
goals. Europe after	r Hitler's getting to power, system of bilateral agreements. Decline of the LN. Rearrangement of powers during WWII. Cold war and it	s consequence	s for Europe.
	New quality of French-German relationship - a driving power of starting European integration.		
15Y1HE-E	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		
Creation and protec	tion of working conditions that do not damage public health. Mutual links: man-machine-environment. Adaptation of technology to po	ossibilities and s	kills of a mar
	Practical examples from the field of transportation; relevant legislature.		
15Y1HL-E	History of Civil Aviation	KZ	
			2
•	ings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of airports in the Czech Republic. World airports. Air	lines of the worl	
CSA	airplanes. Famous aviators. Classic era of aviation. Golden era of civil aviation. Supersonic flying. Modern era of civil aviation. Flyin	lines of the worl g in the world.	d. Helicopters
CSA 15Y1ZV-E	A airplanes. Famous aviators. Classic era of aviation. Golden era of civil aviation. Supersonic flying. Modern era of civil aviation. Flyin East-West dichotomy: Prelude to the Cold War	lines of the worl g in the world. KZ	d. Helicopters
CSA 15Y1ZV-E	A airplanes. Famous aviators. Classic era of aviation. Golden era of civil aviation. Supersonic flying. Modern era of civil aviation. Flyin 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	lines of the worl g in the world. KZ ty of the internat	d. Helicopters
CSA 15Y1ZV-E	A airplanes. Famous aviators. Classic era of aviation. Golden era of civil aviation. Supersonic flying. Modern era of civil aviation. Flyin 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 century and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the	lines of the worl g in the world. KZ ty of the internat	d. Helicopters
CSA 15Y1ZV-E	A airplanes. Famous aviators. Classic era of aviation. Golden era of civil aviation. Supersonic flying. Modern era of civil aviation. Flyin 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 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.	lines of the worl g in the world. KZ ty of the internate causes and co	d. Helicopters
CSA 15Y1ZV-E distorical prologue, in the end of 19th of 16X31-E	A airplanes. Famous aviators. Classic era of aviation. Golden era of civil aviation. Supersonic flying. Modern era of civil aviation. Flyin 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 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. Project 1	lines of the worl g in the world. KZ ty of the internal e causes and co Z	d. Helicopter 2 ional relatior nsequences.
CSA 15Y1ZV-E distorical prologue, in the end of 19th of 16X31-E 16X32-E	A airplanes. Famous aviators. Classic era of aviation. Golden era of civil aviation. Supersonic flying. Modern era of civil aviation. Flyin 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 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. Project 1 Project 2	lines of the worl g in the world. KZ ty of the internate e causes and co Z Z	d. Helicopter 2 ional relation nsequences. 2 2 2
CSA 15Y1ZV-E distorical prologue, in the end of 19th of 16X31-E	A airplanes. Famous aviators. Classic era of aviation. Golden era of civil aviation. Supersonic flying. Modern era of civil aviation. Flyin 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 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. Project 1	lines of the worl g in the world. KZ ty of the internate e causes and co Z Z Z	d. Helicopter 2 ional relatior nsequences.
CSA 15Y1ZV-E distorical prologue, in the end of 19th of 16X31-E 16X32-E	A airplanes. Famous aviators. Classic era of aviation. Golden era of civil aviation. Supersonic flying. Modern era of civil aviation. Flyin 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 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. Project 1 Project 2	lines of the worl g in the world. KZ ty of the internate e causes and co Z Z	d. Helicopter 2 ional relation nsequences. 2 2 2
CSA 15Y1ZV-E listorical prologue, i in the end of 19th of 16X31-E 16X32-E 16X33-E	A airplanes. Famous aviators. Classic era of aviation. Golden era of civil aviation. Supersonic flying. Modern era of civil aviation. Flyin 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 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. Project 1 Project 2 Project 3	lines of the worl g in the world. KZ ty of the internate e causes and co Z Z Z	d. Helicopter
CSA 15Y1ZV-E distorical prologue, i in the end of 19th of 16X31-E 16X32-E 16X33-E 17X31-E 17X32-E	A airplanes. Famous aviators. Classic era of aviation. Golden era of civil aviation. Supersonic flying. Modern era of civil aviation. Flyin 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 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. Project 1 Project 2 Project 3 Project 1 Project 1 Project 2	lines of the worl g in the world. KZ ty of the internate causes and co Z Z Z Z Z Z	d. Helicopter
CSA 15Y1ZV-E distorical prologue, in the end of 19th of 16X31-E 16X32-E 16X33-E 17X31-E 17X32-E 17X32-E 17X33-E	A airplanes. Famous aviators. Classic era of aviation. Golden era of civil aviation. Supersonic flying. Modern era of civil aviation. Flyin 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 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. Project 1 Project 2 Project 3 Project 2 Project 2 Project 2 Project 2 Project 3	lines of the worl g in the world. KZ ty of the internate causes and co Z Z Z Z Z Z Z Z	d. Helicopter
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18Y1PD-E	Computer Simulations in Transportation	ΚZ	2
Principles and ov	rerview of programs for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model develo	opment and ad	aptation of
geometry from othe	er CAE systems. Assignment of material properties. The types of elements and their use. Discretization of solid model. Boundary condi	tions and appl	ication of th
	load. Basic tasks of structural and modal analysis. Introduction to complex nonlinear problems.		
18Y1PS-E	Computer Simulations in Mechanics	ΚZ	2
Principles and ov	rerview of programs for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model develo	opment and ad	aptation of
eometry from othe	er CAE systems. Assignment of material properties. The types of elements and their use. Discretization of solid model. Boundary condi	tions and appl	ication of th
	load. Basic tasks of structural and modal analysis. Introduction to complex nonlinear problems.		
20X31-E	Project 1	Z	2
20X32-E	Project 2	 Z	2
20X33-E	Project 3	Z	2
21APL1-E	Aviation English 1 for Professional Pilot	Z	3
	I on continuous reading specialized texts, vocabulary extension of technical English, terminology in the sphere of aircraft construction,		ight, aircraf
e	ngines, instruments and systems, analyzes relating to topics of air traffic, operational procedures, relevant legislation and operators pro	ocedures.	
21APL2-E	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 flu	ent conversation	on within th
	airlines.		
21CON-E	Navigation Calculations	ΚZ	2
	s; times - UTC, Zulu, LT; positioning; sunrise and sunset; distance calculation; projection; maps and symbols; declination; speed; wind c		
r rojection of mapt	VFR route selection; position plotting.	omponents an	
		7 71/	2
21EKL-E	Air Transport Economy	Z,ZK	3
conomic terminolo	gy used in air transport. Basic microeconomic laws. Division of the economic disciplines. Economy carrier. Economic indicators in the m	ianagement of	an transpo
	Business activities in air transport.		
21HAV-E	Weight and Balance of Aircraft	Z,ZK	3
	and balance, basic aircraft masses, weighing and maximum aircrafts masses, overloading of aircraft, standard weights of passenger, bagg	-	
of load of aircraft	t, flight documentation - loadsheet, trimsheet, securing of load, determination of centre of gravity, influence of centre of gravity position	on aircarft per	formance.
21KPSL-E	Communication and Surveillance Systems in Aviation	ZK	3
The course acqu	aints students with communication and surveillance systems both from the perspective of the air segment (aircraft systems) and from the	the perspective	e of ground
	infrastructure (ground systems), which together create the necessary prerequisites for ensuring safe, efficient and economical air trai	nsport.	
21KSAV-E	KSA Assessment	Z,ZK	2
	Janagement of flight path. Automation of flight. Leadership and teamwork. Problem solving. Decision making. Situation awarness. Work		1
Communication. I	preventation and recovery training. Mental math.	liouu managoi	
		71/	
21LCLT-E	Human Factors in Aviation	ZK	3
	aviation. Breathing, atmosphere. Heart and circulation. Radiation. Human sensory organs, nervous system. Vision, hearing, illusions. H		ene, fatigue
	wakefulness and sleep. Information processing, human error. Cockpit management. Behaviour and workload. Automation. Core compe	etencies.	
21LCM-E	wakefulness and sleep. Information processing, human error. Cockpit management. Behaviour and workload. Automation. Core compe Aircraft Engines	ztencies. Z,ZK	3
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21LVPK-E	MCC - Multicrew Cooperation	Z	2
	is in relation to human factor. MCC - basic principles, phases and methods within the area of air transport. CRM - leadership, situation	- 1	
i light callety allaryc	process, communication, effect of stress to the multi-crew performance, standard operational procedures, automation.		Jon manning
21MET2-E	Meteorology 2	Z,ZK	5
	ropical climatology, meteorological situation of mid-latitudes. Icing, turbulence, wind shear, thunderstorms, tornadoes, flying in the str	I ' I	
	reducing visibility phenomena. Observation, weather maps, important information for flight planning.	•	
21MRG1-E	Meteorology 1	KZ	3
	and vertical structure of the atmosphere. QNH, QFE, QFF, QNE, density and height measurements. Wind, moisture and adiabatic pro		
-	cloud, fog, haze. Precipitation. Types of air masses, atmospheric fronts. Distribution of pressure, cyclones, anticyclones, non-fronta		
210BN-E	General Navigation	ZK	5
The Earth: latitud	de and longitude. Reference systems. Circles on the Earth and distance. Calculations. Time. Magnetism and sirections. Wind and Spe	ed: 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	tion. Nav Log prep	aration and
	use. Navigation display. Navigation in remote and oceanic areas.		
21PKL1-E	Advanced Flying 1	KZ	4
This course supple	ements Learning objectives laid down in Commission Regulation (EU) No 1178/2011. Instrument flying introduction, threat and error	management, proc	edures for
instrument depart	ures, enroute flight, holdings and arrivals, instrument approaches, performance based navigation, weather consideration, flight planr	ning and monitoring	, effective
	briefings, phraseology differences, lost communication procedures, CFIT prevention, decompresion		
21PKL2-E	Advanced Flying 2	ZK	2
Learning objective	es are based on requirements laid down in Commission Regulation (EU) No 1178/2011, subjects 081 and 100. Multi engine aircraft a	nd jet aircraft char	acteristics,
energy manage	ment, stabilized approach and landing errors, jet - performance - engine out flight, jet - handling - engine out flight go around, UPRT,	volcanic ash, cold	weather
	operations, operation manuals, MEL procedures and deviations, flight time limitation		
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	I ' I	-
21PPY2-E	Operational Procedures 2	ZK	4
	ation and manuals, Icing and protection of the aircraft against icing, noise abatement procedures, Abnormal and emergency situation	I I	-
0	contamination	, ,	,
21PRJ1-E	Instrumentation 1	ZK	2
-	and construction of flight instruments, electric systems, power plant sensors and instruments, airframe sensors and instruments, measu	I I	
	integrated instrument systems.		
21PRJ2-E	Instrumentation 2	ZK	3
-	pic instruments (turn indicator, attitude indicator, directional gyro), inertial instruments, recording and monitoring systems, warning sy	I I	-
	(autopilot, flight director, autothrust), FMS, flight envelope protection, communication systems, flight computers		- ,,
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	, [,] ,	-
	ht 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		
21RDN-E	Radionavigation	Z.ZK	3
	der (VDF), ADF, VOR and Doppler VOR, DME, ILS, MLS, ground ATC radar, weather Radar, SSR and transponder. Radar utilization	I ' I	-
Area navigation (R	NAV) - general philosophy, gauges and equipment, indication and sensors for RNAV, VOR/DME (RNAV). Autopilot and flight director	. Satellite navigatio	n, systems
	and backups.		
21SBP-E	Bachelor's Thesis Seminar	Z	1
	mation sources. Citation, citation formats. The methodology of writing the thesis. Presentation of results. Formal requirements for the	sis. Presentation of	thesis.
	Requirements for journal articles. Publication ethics.		
21SIFR-E	IFR Communication	Z	2
Definitions, Terms,	Abbreviations, Q-codes, Transport message categories, Transmission technique,, Transmission of letters, numbers, time and symbols	, Standard words a	
for IFR flig	hts, Radar procedural phraseology, Standard phraseology and Morse code, Practical IFR radiotelephony procedures in normal and e	emergency situation	ns.
21SVFR-E	VFR Communication	Z	4
	are based on PART FCL, part 090. It defines terms and abbreviations used in VFR communication. Phraseology and procedures in	standard and non-	
	situations.		
21TVFR-E	Theory for VFR Training	Z,ZK	8
Course content is	based on PPL(A) theory requirements according to Part-FCL. Lectures cover topics that are necessary to commence the practical pa		ig, such as
principles of flight	, airframe and powerplant, aircraft systems, instrumentation, mass and balance, performance, air law and ATC procedures, meteorol	ogy, operational pr	ocedures,
	navigation, radionavigation, VFR communication, flight planning and monitoring and human factor.		
21VL-E	Aircraft Performance	Z,ZK	4
Basic terms of aircr	aft performance, basic characteristic speeds, runway characteristics, single and multiengine aircraft performance class B, aircraft per	formance class A,	take off and
	landing performance, after take off and missed approach climb, noise abatement procedures, range of aircraft, drift down, MEL, f	ETOPS.	
21X31-E	Project 1	Z	2
21X32-E	Project 2	Z	2
21X33-E	Project 3	Z	2
21Y1BC-E	Aviation safety and security	KZ	2
	f safety and security development in aviation. Modern tools for safety and security management. Research and development of safe	I I	
		KZ	s. 2
21Y1BS-E	Unmanned aircraft systems 1	I I	
	n Development. Aircraft design. Legislation in force in the Czech Republic. Planning and execution of the flight. Airspace division. Ope procedures. Practical flights.	FIGUUIAI IISKS AND	
21//1/1		KZ	
21Y1MJ-E	Matlab for projects bus is focused on the problem-solving during bachelor's thesis preparation and it is based on students' requests. Individual exercises	I I	2
	les, based on actual students' needs and suggestions. The subject will have a flexible form, which is expected to bring an improvement		-
r			

21Y1MP-E	Matlab for project-oriented study	KZ	2
The subject's syllat	bus is focused on the problem-solving during bachelor's thesis preparation and it is based on students' requests. Individual exercises	will be prepared	according to
particular exampl	les, 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	atlab skills.
21Y1OH-E	Airline Business and Operations	KZ	2
The course provides	s a comprehensive view of the commercial, operational and transportation activities of air transport companies. It focuses on the organiz	ational structure o	f companies,
various aspects of the	their strategy, economic and operational indicators. It introduces students in detail to operational processes and the essentials of transp	ortation processe	es. It provides
	a basic view of the economic aspects of air transport.		
21Y1RZ-E	Human Resources Management	KZ	2
The position of h	human resources in the organization and related disciplines file. Substance, importance and challenges of human resources manage	ment. Internal an	d external
environment of hum	nan resource management. Human resource planning. Search, recruitment and selection of employees. Motivation, evaluation and ren	nuneration of staf	f. Positioning,
	dismissal and redundancies of employees. Education of employees. Planning career management.		
21ZKL1-E	Principles of Flight 1	ZK	3
I			-
Aerodynamic drag,	Principles of Flight 1	essures around v	ving, angle of
Aerodynamic drag,	Principles of Flight 1 , relation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and pro-	essures around v	ving, angle of
Aerodynamic drag,	Principles of Flight 1 , relation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and pro 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	essures around v	ving, angle of
Aerodynamic drag, attack, reactions of 21ZKL2-E	Principles of Flight 1 , relation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and proving 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 lift and drag increase.	essures around w drag, interferenc ZK	ving, angle of e, devices for
Aerodynamic drag, attack, reactions of 21ZKL2-E Ways of producing t	Principles of Flight 1 , relation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and provide in the stream of	essures around w drag, interferenc ZK ler operation mod	ving, angle of e, devices for 3 des, propeller
Aerodynamic drag, attack, reactions of 21ZKL2-E Ways of producing t	Principles of Flight 1 , relation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and pro- 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 lift and drag increase. Principles of Flight 2 thrust, propeller, jet propulsion, thrust and momentum, propulsion efficiency, aerodynamics of fixed and variable pitch propeller, propel	essures around w drag, interferenc ZK ler operation mod	ving, angle of e, devices for 3 des, propeller
Aerodynamic drag, attack, reactions of 21ZKL2-E Ways of producing t	Principles of Flight 1 relation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and pro- 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 lift and drag increase. Principles of Flight 2 thrust, propeller, jet propulsion, thrust and momentum, propulsion efficiency, aerodynamics of fixed and variable pitch propeller, propel , gyroscopic effect, balance of forces in horizontal flight, glide and landing, performances, take off an climb, acceleration, positive load	essures around w drag, interferenc ZK ler operation mod	ving, angle of e, devices for 3 des, propeller
Aerodynamic drag, attack, reactions of 21ZKL2-E Ways of producing t airstream effect,	Principles of Flight 1 relation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and provide 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 lift and drag increase. Principles of Flight 2 thrust, propeller, jet propulsion, thrust and momentum, propulsion efficiency, aerodynamics of fixed and variable pitch propeller, propel, gyroscopic effect, balance of forces in horizontal flight, glide and landing, performances, take off an climb, acceleration, positive load controllability, transsonic speeds.	essures around v drag, interferenc ZK ler operation mod l, manoevures, st	e, devices for 3 des, propeller ability and
Aerodynamic drag, attack, reactions of 21ZKL2-E Ways of producing t airstream effect, 22X31-E	Principles of Flight 1 relation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and pro- 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 lift and drag increase. Principles of Flight 2 thrust, propeller, jet propulsion, thrust and momentum, propulsion efficiency, aerodynamics of fixed and variable pitch propeller, propel , gyroscopic effect, balance of forces in horizontal flight, glide and landing, performances, take off an climb, acceleration, positive load controllability, transsonic speeds. Project 1	essures around v drag, interferenc ZK ler operation mod I, manoevures, st Z	, angle of e, devices for des, propeller ability and
Aerodynamic drag, attack, reactions of 21ZKL2-E Ways of producing t airstream effect, 22X31-E 22X32-E	Principles of Flight 1 relation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and pro- twing 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 lift and drag increase. Principles of Flight 2 thrust, propeller, jet propulsion, thrust and momentum, propulsion efficiency, aerodynamics of fixed and variable pitch propeller, propel , gyroscopic effect, balance of forces in horizontal flight, glide and landing, performances, take off an climb, acceleration, positive load controllability, transsonic speeds. Project 1 Project 2	essures around v drag, interferenc ZK ler operation mod I, manoevures, st Z Z	a devices for 3 des, propeller ability and 2 2 2
Aerodynamic drag, attack, reactions of 21ZKL2-E Ways of producing t airstream effect, 22X31-E 22X32-E 22X33-E	Principles of Flight 1 relation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and pro- 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 lift and drag increase. Principles of Flight 2 thrust, propeller, jet propulsion, thrust and momentum, propulsion efficiency, aerodynamics of fixed and variable pitch propeller, propel gyroscopic effect, balance of forces in horizontal flight, glide and landing, performances, take off an climb, acceleration, positive load controllability, transsonic speeds. Project 1 Project 3	essures around v drag, interferenc ZK ler operation moo I, manoevures, st Z Z Z Z	a devices for a, devices for des, propeller ability and 2 2 2 2

For updated information see <u>http://bilakniha.cvut.cz/en/FF.html</u> Generated: day 2025-08-18, time 09:58.