Recomended pass through the study plan

Name of the pass: Bachelor Full-Time PIL (CS) from 2024/25

Faculty/Institute/Others:

Department:

Pass through the study plan: Bachelor PIL (CS) 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	Calculus 1 Tomáš T asák, Olga Vraštilová, Magdalena Hykšová, Bohumil Ková, Ond ej Navrátil Bohumil Ková Ond ej Navrátil (Gar.)	Z,ZK	7	2P+4C+22B	Z	Z
15JP1A	Foreign Language - English for PIL 1 Marek Tome ek, Dana Boušová, Peter Morpuss, Lenka Monková, Marie Michlová, Eva Rezlerová, Markéta Musilová, Markéta Vojanová, Jitka He manová,	Z	2	0P+2C	Z	Z
11GIE	Geometry Old ich Hykš, Pavel Provinský, Šárka Vorá ová Old ich Hykš Old ich Hykš (Gar.)	KZ	3	2P+2C+12B	Z	Z
11LA	Linear Algebra Magdalena Hykšová, Pavel Provinský, Lucie Kárná, Martina Be vá ová Magdalena Hykšová Martina Be vá ová (Gar.)	Z,ZK	3	2P+1C+10B	Z	Z
21OBN	General Navigation Jan Slezá ek	ZK	5	4P+0C	Z	Z
21VFRC	VFR Communication Milan Kameník Milan Kameník	Z,ZK	4	2P+1C	Z	Z
21VFRT	Theory for VFR Training Ladislav Capoušek Jakub Kraus	Z,ZK	6	4P+4C	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
11CAL2	Calculus 2 Magdalena Hykšová	Z,ZK	5	2P+3C+20E	B L	Z
15JP2A	Foreign Language - English for PIL 2	KZ	3	0P+2C	L	Z
21LDA1	Aircraft 1 Karel Mündel	Z,ZK	3	2P+1C	L	Z
21LAP1	Aviation English for Professional Pilot 1 Filip Havrda	Z	2	0P+2C	L	Z
21LEY1	Air Law 1	ZK	3	3P+0C	L	Z
21LPX1	Flight Training 1	KZ	2	0P+1C	Z,L	Z
21CON-E	Navigation Calculations Milan Kameník	KZ	2	0P+2C	L	Z
11STAT	Statistics	Z,ZK	4	2P+2C+12E	B L	Z
21HAV-E	Weight and Balance of Aircraft Denisa Svobodová	Z,ZK	3	2P+2C	L	Z
21ZYT1	Principles of Flight 1 Jakub Trýb	Z,ZK	3	2P+1C	L	Z

Number of semester: 3

	5.01.0					
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
21LPTY-E	Aircraft Operations Ladislav Capoušek Ladislav Capoušek	ZK	2	2P+0C	Z	Z
21VL-E	Aircraft Performance Denisa Svobodová, Anna Polánecká Anna Polánecká	Z,ZK	4	2P+2C	Z	Z
15JZ3A	Foreign Language - English 3 Marek Tome ek, Dana Boušová, Peter Morpuss, Lenka Monková, Marie Michlová, Eva Rezlerová, Markéta Musilová, Markéta Vojanová, Jitka He manová,	Z	3	0P+4C	Z	Z
11FYZ	Physics Old ich Hykš, Pavel Demo, Zuzana Malá, Tomáš Vít , Jana Kuklová Jana Kuklová Pavel Demo (Gar.)	Z,ZK	5	2P+2C+18B	Z	Z
21LDA2	Aircraft 2 Karel Mündel Karel Mündel	Z,ZK	4	2P+1C	Z	Z
21LAP2	Aviation English for Professional Pilot 2 Lukáš Zibner, Filip Havrda, Zden k Ove ka Lukáš Zibner Andrej Lališ (Gar.)	Z,ZK	3	0P+4C	Z	Z
21LPX2	Flight Training 2 Iveta Kameníková, Jakub Hospodka, Jakub Charezinski, Roman Matyáš Iveta Kameníková	KZ	2	0P+1C	L,Z	Z
21PUP1	Instrumentation 1 Pavel Hovorka	ZK	3	2P+0C	Z	Z
21RNV	Radionavigation Milan Kamenik Milan Kamenik	Z,ZK	4	3P+1C	Z	Z
11SCFZ	Seminar of Physics Old ich Hykš, Zuzana Malá, Tomáš Vít , Jana Kuklová Zuzana Malá Zuzana Malá (Gar.)	Z	0	0P+2C	Z	V

Number of semester: 4

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
21AFL1-E	Advanced Flying 1	Z,ZK	3	2P+1C	L	Z
14AP	Algorithm and Programming	KZ	4	2P+2C	L	Z
15JZ4A	Foreign Language - English 4	Z,ZK	3	0P+4C	L	Z
11EMO	Electromagnetic Field and Optics Zuzana Malá	Z,ZK	4	2P+1C	L	Z
21PML-E	Flight Planning and Monitoring Anna Polánecká	Z,ZK	3	2P+2C	L	Z
21LPX3	Flight Training 3	KZ	2	0P+1C	L	Z
21MEE1	Meteorology 1 Iveta Kameníková	Z,ZK	3	2P+2C	L	Z
21PRJ2	Instrumentation 2 Pavel Hovorka Jakub Hospodka (Gar.)	ZK	3	2P+0C	L,Z	Z
21SBU1	Bachelor Thesis Seminar 1 Lenka Hanáková	Z	1	1P+0C	L	ZP
21IFRC	IFR Communication Milan Kameník	KZ	2	1P+1C	L	Z
11SEMO	Seminar of Electromagnetic Field and Optics Zuzana Malá	Z	0	0P+2C	L	Z
		Min. cours.				
V4 DD DII 00 05/00	Projekty Bc. prezen ní PIL (CS) od 2025/26	3	Min/Max			
X1-BP-PIL-CS-25/26	11X31,12X31, (see the list of groups below)	Max. cours.	6/6			ZP
		3				

Number of semester: 5

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
21LEY2	Air Law 2 Miroslav Malina	ZK	3	3P+0C	Z	Z
21LPX4	Flight Training 4 Iveta Kameníková, Jakub Hospodka, Jakub Charezinski, Roman Matyáš Iveta Kameníková	KZ	2	0P+1C	Z	Z

21LILE	Human Factors in Aviation Iveta Kameníková, Lenka Hanáková, Boris Oniš enko	KZ	3	4P+0C	Z	Z
21MET2	Meteorology 2 Iveta Kameníková Iveta Kameníková	Z,ZK	5	2P+2C	L,Z	Z
21PPY1-E	Operational Procedures 1 Ladislav Capoušek Ladislav Capoušek	Z,ZK	3	2P+1C	Z	Z
21PRKP-E	Practical Flight Planning Jakub Hospodka, Ota Hajzler Ota Hajzler	Z,ZK	4	2P+2C	Z	Z
21SBU2	Bachelor Thesis Seminar 2 Lenka Hanáková, Vladimír Socha Vladimír Socha	Z	1	1P+0C	Z	ZP
21ZYT2	Principles of Flight 2 Jakub Trýb, Pemysl Vávra Jakub Trýb	Z,ZK	3	2P+1C	Z	Z
		Min. cours.	Min/Max			
X1-BP-PIL-CS-25/26	Projekty Bc. prezen ní PIL (CS) od 2025/26 11X31,12X31, (see the list of groups below)	Max. cours.	6/6			ZP
Y1-BP-PIL-CS-25/26	PVP-B Bc. prezen ní PIL (CS) od 2025/26 15Y1EH,15Y1HE, (see the list of groups below)	Min. cours. 2 Max. cours.	Min/Max			PV
	,	2	7/4			

Number of semester: 6

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
21PKL2-E	Advanced Flying 2	ZK	2	2P+0C	L,Z	Z
21ELDO	Air Transport Economy	Z,ZK	3	3P+1C	L	Z
21KPSL	Communication and Surveillance Systems in Aviation Stanislav Pleninger	ZK	3	2P+0C	L	Z
21KSA	KSA Assessment	KZ	2	0P+2C	L	Z
21LVIP	MCC - Multicrew Cooperation	KZ	2	2P+1C	L	Z
21LCM	Aircraft Engines	Z,ZK	3	2P+1C	Z,L	Z
21LEIS	Aerodromes Ladislav Capoušek	Z,ZK	3	2P+1C	L	Z
21LPX5	Flight Training 5	KZ	2	0P+1C	L	Z
11MSP	Modeling of Systems and Processes Bohumil Ková	Z,ZK	4	2P+2C+12E	B L	Z
21PRY2-E	Operational Procedures 2	ZK	3	3P+0C	L	Z
21SBU3	Bachelor Thesis Seminar 3 Lenka Hanáková	Z	1	1P+0C	L	ZP
X1-BP-PIL-CS-25/26	Projekty Bc. prezen ní PIL (CS) od 2025/26 11X31,12X31, (see the list of groups below)	Min. cours. 3 Max. cours. 3	Min/Max 6/6			ZP

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

Kód		Name of the group o group (for specificati	f courses a on see here	nd codes of members of thi or below the list of course	s s) Con	pletion	Credits	Scope	Semester	Role
X1-BP-PI	L-CS-25/26	Projekty Bc.	prezen ní	PIL (CS) od 2025/26		cours. 3 . cours. 3	Min/Ma	x		ZP
11X31	Project 1		12X31	Project 1		14X31	F	roject 1		
15X31	Project 1		16X31	Project 1		17X31	F	roject 1		
18X31	Project 1		20X31	Project 1		21X31	F	Project 1		
22X31	Project 1		11X32P	Project 2 PIL-CS		12X32P	F	Project 2 PIL-CS		
14X32P	Project 2 F	PIL-CS	15X32P	Project 2 PIL-CS		16X32P	F	roject 2 PIL-	CS	
17X32P	Project 2 F	PIL-CS	18X32P	Project 2 PIL-CS		20X32P	F	roject 2 PIL-	CS	

21X32P	Project 2 P	IL-CS	22X32P	Project 2 PIL-CS		11X33		Project 3		
12X33	Project 3		14X33	Project 3		15X33		Project 3		
16X33	Project 3		17X33	Project 3		18X33		Project 3		
20X33	Project 3		21X33	Project 3		22X33		Project 3		
Y1-BP-PIL-	CS-25/26	PVP-B Bc. p	orezen ní P	IL (CS) od 2025/26		cours. 2 . cours. 2	Min/Ma 4/4	ax		PV
15Y1EH	European I	ntegration within Hist	15Y1HE	Work Hygiene and Ergonomics in	T	15Y1ZV	<u>' </u>	East-West did	hotomy: Preluc	le to
18Y1EM	Experimen	tal Methods in Mechanic	21Y1MP	Matlab for project-oriented stud		21Y1OH		Airline Busine	ss and Operati	ons
15Y1BO	Work Safet	y and Health Protectio	15Y1HL	History of Civil Aviation		17Y1LL		Logistics of Passenger and Freig		reig
18Y1MT	Engineerin	g Materials	18Y1PD	Computer Simulations in Transpor		18Y1PS		Computer Sin	nulations in Me	chanic
21Y1BC	Aviation sa	fety and security	21Y1BS	Unmanned aircraft systems 1		21Y1RZ		Human Reso	urces Managen	nent
21Y1AM	Aeronautic	al Information Managem	00Y1XB	Active participation in a scient		21Y1PC		ATC Procedu	res and Activitie	es

List of courses of this pass:

Sequence of real numbers and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative. Indefinite integral, Newton integral, Riemann integral. First-order differential equations, linear differential equations. 11CAL2 Calculus 2 Calcu	ode	Name of the course	Completion	Credits
Sequence of real numbers and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative, Indefinite integral, Newton integral. Riemann integral. First-order differential equations. 11CAL2 Linear differential equations and their systems, differential calculus of functions of several real variables. Riemann integral in Rn. Line and surface integral 11EMO Electromagnetic Field and Optics Electric field. Electric current. Magnetic field. Electromagnetic field and Optics Electric field. Electric current. Magnetic field. Electromagnetic field. Optics. Basics of solid-state physics. 11FYZ Physics Kinematics, dynamics, Newton's laws, force fields, mechanics of continuum, thermodynamics, introduction to electrostatics and electric current. 11GIE Geometry McZ Differential geometry of curves - parameterization, the arc of the curve, torsion and curvature, Frenet's trihedron. Kinematics - a curve as a trajectory of the motion, acceleration of a particle moving on a curved path. 11LA Linear Algebra Linear Algebra Modeling of Systems and elegenvatues and elegenvactors). Quadratic forms and their classification. 11MSP Modeling of Systems and Processes System and subsystem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differential and differential equations. 11SCFZ Solving problems on kinematics, particle dynamics, dynamics of particle systems. System and rigid body. Continuum mechanics, thermodynamics. 11SEMO Seminar of Electromagnetic field and Optics Solving problems on electric and magnetic field, electromagnetic field and Optics Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics. 11X31 Project 1 Project 2 PIL-CS Z 11X33 Project 2 PIL-CS Z 11X33 Project 3 Project 3 Project 3 Project 3 Project 3 Project 4 LAV31 Project 1 LAV31	00Y1XB	Active participation in a scientific project, workshop, short-term trip abroad	KZ	2
Sequence of real numbers and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative. Indefinite integral, Newton integral. Riemann integral. First-order differential equations. 11CAL2 Calculus 2 Linear differential equations and their systems, differential calculus of functions of several real variables. Riemann integral in Rn. Line and surface integral 11EMO Electric current. Magnetic field. Electromagnetic field and Optics Electric field. Electric current. Magnetic field. Electromagnetic field. Optics. Basics of solid-state physics. 11FYZ Physics Kinematics, dynamics, Newton's laws, force fields, mechanics of continuum, thermodynamics, introduction to electrostatics and electric current. 11GIE Geometry of curves - parameterization, the arc of the curve, torsion and curvature, Frene's trihedron. Kinematics - a curve as a trajectory of the motion, acceleration of a particle moving on a curved path. 11LA Linear Algebra 11LM Linear Combinations, linear independence, dimension, basic, coordinates). Matrices and operations. Systems of linear equations and their absolubility. If their applications. Scalar product. Similarity of matrices (eigenvalues and elegrenvectors). Quadratic forms and their classification. 11MSP Modelling of Systems and Processes Vestor spaces (linear combinations, linear independence, dimension, basic, coordinates). Matrices and operations. Systems of linear equations and their absolubility. If their applications. Scalar product. Similarity of matrices (eigenvalues and elegrenvectors). Quadratic forms and their classification. 11MSP Modelling of Systems and Processes Systems and subsystem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differential and differential equations. 11SEMO Seminar of Physics Seminar of Physics Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodynamics. 11SEMO Sem	11CAL1	Calculus 1	Z,ZK	7
TICAL2	quence of real nu			ral, imprope
Linear differential equations and their systems, differential calculus of functions of several real variables. Riemann integral in Rn. Line and surface integrated in the project of the decidence of the project of the decidence of the project of the project of project 2 Physics Electric field. Electric current. Magnetic field. Electromagnetic field. Optics. Basics of solid-state physics. 11FYZ Physics Capability Rinematics, dynamics, Newton's laws, force fields, mechanics of continuum, thermodynamics, introduction to electrostatics and electric current. Capability of the motion, acceleration of a particle moving on a curved path. 11GIE Geometry Capability of curves - parameterization, the arc of the curve, torsion and curvature, Frenet's trihedron. Kinematics - a curve as a trajectory of the motion, acceleration of a particle moving on a curved path. 11LA Linear Algebra Electromagnetic moving on a curved path. 11LA Linear Algebra Electromagnetic moving on a curved path. 11MSP Modeling of Systems and electric current. 11MSP Modeling of Systems and Processes Modeling of Systems and Processes Note of Systems and processes Note of Systems and Processes 11MSP Modeling of Systems and Processes System and subsystem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differential and differential and differential and differential and system, and the systems, system interconnection. 11SCFZ Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodynamics. 11SEMO Seminar of Electromagnetic Field and Optics Solving problems on electric and magnetic field, electromagnetic Field and Optics Solving problems on electric current. 11STAT Statistics Solving problems on electric current. 2 Satistics 11X31 Project 1 Z 11X32P Project 2 PIL-CS Z 11X33 Project 3 Z 12X33 Project 3 Z 12X31 Project 3 Z 12X31 Project 3 Z 12X33 Project 3 Z 14X92 Project 4 Project 4 Project 4	11CAL2		Z.ZK	5
Electric field. Electric current. Magnetic field. Electromagnetic field. Optics. Basics of solid-state physics. 7. ZK Kinematics, dynamics, Newton's laws, force fields, mechanics of continuum, thermodynamics, introduction to electrostatics and electric current. 8. Geometry Differential geometry of curves - parameterization, the arc of the curve, torsion and curvature, Frenet's trihedron. Kinematics - a curve as a trajectory of the motion, acceleration of a particle moving on a curved path. 11LA Linear Algebra Linear Algebra Linear Algebra Vector spaces (linear combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and their solvability. It their applications. Scalar product. Similarity of matrices (elgenvalues and eigenvectors). Quadratic forms and their classification. 11MSP Modeling of Systems and Processes System and subsystem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differential and diffe Linear and nonlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function. Stability of Discretization of continuous systems. System interconnection. 11SCFZ Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodynamics. 11SEMO Seminar of Electromagnetic Field and Optics Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics. 11STAT Statistics Satistics Satistics Satistics Satistics Project 1 Z ZXK Basics of probability Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Parametric tests Nong Regression and correlation analysis 11X31 Project 1 Z 11X32P Project 2 PIL-CS Z 11X33 Project 2 PIL-CS Z 12X33 Project 3 Z 2 2 2 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4	I I	differential equations and their systems, differential calculus of functions of several real variables. Riemann integral in Rn. Line and		
T1FYZ Rinematics, dynamics, Newton's laws, force fields, mechanics of continuum, thermodynamics, introduction to electrostatics and electric current.	11EMO	Electromagnetic Field and Optics	Z,ZK	4
Kinematics, dynamics, Newton's laws, force fields, mechanics of continuum, thermodynamics, introduction to electrostatics and electric current. 11GIE Geometry KZ		Electric field. Electric current. Magnetic field. Electromagnetic field. Optics. Basics of solid-state physics.	<u> </u>	
Differential geometry of curves - parameterization, the arc of the curve, torsion and curvature, Frenet's trihedron. Kinematics - a curve as a trajectory of the motion, acceleration of a particle moving on a curved path. Linear Algebra Z,ZK /ector spaces (linear combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and their solvability. It their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classification. 11MSP Modeling of Systems and Processes System and subsystem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differential and differ Linear and nonlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function. Stability of Discretization of continuous systems. System interconnection. 11SCFZ Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodynamics. Solving problems on electric and magnetic field, electromagnetic field and Optics Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics. 11STAT Statistics Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics. 11X31 Project 1 Statistics Regression and correlation analysis 11X31 Project 2 PIL-CS 11X33 Project 2 PIL-CS 2 11X33 Project 3 2 12X31 Project 2 PIL-CS Z 12X33 Project 2 PIL-CS Z 12X33 Project 2 PIL-CS Z 14AP Algorithm and Programming KZ Computers, data representation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, searching and sorting algoritation programmin	I	,	Z,ZK ectric current.	5
acceleration of a particle moving on a curved path. Linear Algebra Linear Algebra Linear combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and their solvability. If their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classification. 11MSP Modeling of Systems and Processes Nondeling of Systems and Processes System, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differential and diffe Linear and nonlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function. Stability of Discretization of continuous systems. System interconnection. 11SCFZ Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodynamics. 11SEMO Seminar of Electromagnetic Field and Optics Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics. 11STAT Statistics Basics of probability Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Parametric tests Non Regression and correlation analysis 11X31 Project 1 Project 2 PIL-CS TAIX33 Project 3 Project 3 TAIX33 Project 3 TAIX33 Project 3 TAIX34 Project 3 TAIX34 Project 3 TAIX34 Project 3 TAIX34 TAIX35 TAIX35 TAIX36 TAIX37 TAIX37 TAIX37 TAIX37 TAIX38 TAIX38 TAIX38 TAIX38 TAIX39	11GIE	Geometry	KZ	3
Vector spaces (linear combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and their solvability. Itheir applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classification. Modeling of Systems and Processes System and subsystem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differential and differential and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function. Stability of Discretization of continuous systems. System interconnection. 11SCFZ Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodynamics. 11SEMO Seminar of Electromagnetic Field and Optics Z Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics. 11STAT Statistics Statistics Solution and sample, limit theorem Point estimate, construction and properties Interval estimates Parametric tests Non Regression and correlation analysis 11X31 Project 1 Z 11X32P Project 2 PIL-CS Z 11X33 Project 1 Z 12X31 Project 2 PIL-CS Z 12X31 Project 2 PIL-CS Z 12X32P Project 2 PIL-CS Z 12X33 Project 3 Z 12X33 Project 3 Z 14AP Algorithm and Programming KZ Computers, data representation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, searching and sorting alguated ta types (set, tupple, dictionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, instruduction into programming 14X31 Project 1 Z	fferential geomet		of the motion, the v	elocity, and
their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classification. 11MSP	11LA	Linear Algebra	Z,ZK	3
System and subsystem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differential and differential and differential and differential and nonlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function. Stability of Discretization of continuous systems, System interconnection. 11SCFZ Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodynamics. 11SEMO Seminar of Electromagnetic Field and Optics Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics. 11STAT Statistics Statistics Salving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics. 11X3TAT Statistics Salving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics. 11X3TAT Statistics Salving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics. 7,ZK Basics of probability Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Parametric tests Non Regression and correlation analysis 11X31 Project 1 Project 1 Z 11X32P Project 2 PIL-CS Z 12X31 Project 3 Z 12X31 Project 3 Z 12X32P Project 2 PIL-CS Z 12X33 Project 3 Z 14AP Algorithm and Programming KZ Computers, data representation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, searching and sorting algority files, instroduction into programming and programming Project 1 Project 1 Project 1 Project 1 Project 1 Project 2 Project 3 Project 3 Project 3 Project 4 Project 4 Project 5 Project 6 Project 7 Project 9 Project 9	tor spaces (linea			minants an
Linear and nonlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function. Stability of Discretization of continuous systems. System interconnection. 11SCFZ Seminar of Physics Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodynamics. 11SEMO Seminar of Electromagnetic Field and Optics Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics. 11STAT Statistics Statistics Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics. 11STAT Statistics Statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Parametric tests Non Regression and correlation analysis 11X31 Project 1 2 Total Statistics Solving Project 2 PIL-CS Solving Project 3 Solving	11MSP	Modeling of Systems and Processes	Z,ZK	4
Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodynamics. 11SEMO Seminar of Electromagnetic Field and Optics Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics. 11STAT Statistics Statistics Basics of probability Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Parametric tests Non Regression and correlation analysis 11X31 Project 1 Z 11X32P Project 2 PIL-CS Z 11X33 Project 3 Z 12X31 Project 1 Z 12X32P Project 2 PIL-CS Z 12X32P Project 2 PIL-CS Z 12X33 Project 3 Z 14AP Algorithm and Programming KZ Computers, data representation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, searching and sorting algoritate to process date and time, set arrays, functions and procedures, working with files, instroduction into programming 14X31 Project 1 Z	Linear and nonli	inear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer funct Discretization of continuous systems. System interconnection.	tion. Stability of LTI s	systems.
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Regression and correlation analysis 11X31	11STAT	Statistics	Z,ZK	4
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,	•	epresentation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, searching apple, dictionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, in		
	14X31	Project 1	Z	2
<u> </u>	14X32P		Z	2
14X33 Project 3 Z				2
15JP1A Foreign Language - English for PIL 1 Z		·		2

Topics related to air transport and occupation of pilot and air staff.

15JP2A			
	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 structu Topics related to air transport and occupation of pilot and air staff.	ures, syntax and v	ocabulary.
15JZ3A	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 f	L fields of study pilo	-
	ceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral and		
, , .	and their features; terminology.		
15JZ4A	Foreign Language - English 4	Z,ZK	3
Grammar structure	and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Faculty's fi	ields of study - pilo	t. Focus on
improvement in per	ceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral and	d written form. Ted	hnical texts
	and their features; terminology.		
15X31	Project 1	Z	2
15X32P	Project 2 PIL-CS	Z	2
15X33	Project 3	Z	2
15Y1BO	Work Safety and Health Protection in Transportation	KZ	2
Fundamental legis	lative, definition of terms, risks and possible health damage, working conditions and health protection with focus on transportation. He	ealth protection pro	ogrammes,
457/4511	health insurance of home and foreign business trips, statistics, working practice.	1/7	
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. Litt er Hitler's getting to power, system of bilateral agreements. Decline of the LN. Rearrangement of powers during WWII. Cold war and its		
godio. Edi opo dik	New quality of French-German relationship - a driving power of starting European integration.	o concoquences is	or Europo.
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 fa		
Creation and prote	ction of working conditions that do not damage public health. Mutual links: man-machine-environment. Adaptation of technology to pos	ssibilities and skill	s of a man.
	Practical examples from the field of transportation; relevant legislature.		
15Y1HL	History of Civil Aviation	KZ	2
	g, development of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of air	•	
World airports. Fa	amous aviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era of	aviation. Golden e	era of civil
15Y1ZV	aviation. Modern era of civil aviation. Airline companies. Supersonic flying.	KZ	2
	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 continuit		
	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
16X32P	Project 2 PIL-CS	Z	2
16X33	Project 3	Z	2
17X31	Project 1	Z	2
17X32P	Project 2 PIL-CS	Z	2
17X33	Project 3	Z	
17Y1LL	,		2
	Logistics of Passenger and Freight All Transport		2
	Logistics of Passenger and Freight Air Transport seenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial trans	KZ	2
		KZ	2
18X31	senger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial trans	KZ	2
18X31 18X32P	senger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transport. Global distribution systems.	KZ port process pass Z Z	2 engers and
	ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transport. Global distribution systems. Project 1	KZ port process pass Z Z Z	2 engers and 2
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18X32P 18X33 18Y1EM The purpose and r	senger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transports air cargo. Information systems in air transport. Global distribution systems. Project 1 Project 2 PIL-CS Project 3 Experimental Methods in Mechanics Die of experimental mechanics. Sensors for mechanical testing. Overview of experimental methods. Destructive and non-destructive to	KZ port process pass Z Z Z KZ esting of materials	engers and 2 2 2 2 2 s. Design of
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18X32P 18X33 18Y1EM The purpose and rexperimental pro-	Project 1 Project 2 PIL-CS Project 3 Experimental Methods in Mechanics Determination Survive Service S	KZ port process pass Z Z Z KZ esting of materials igue and lifetime p KZ composites, atten selection charts.	2 2 2 2 3. Design of prediction.
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21CON-E	Navigation Calculations	KZ	2
Projection of map	s; times - UTC, Zulu, LT; positioning; sunrise and sunset; distance calculation; projection; maps and symbols; declination; speed; wind	components and	wind drift;
	VFR route selection; position plotting.		
21ELDO	Air Transport Economy	Z,ZK	3
21HAV-E	Weight and Balance of Aircraft	Z,ZK	3
	s and balance, basic aircraft masses, weighing and maximum aircrafts masses, overloading of aircraft, standard weights of passenger, ba		II.
	ft, flight documentation - loadsheet, trimsheet, securing of load, determination of centre of gravity, influence of centre of gravity position		
21IFRC	IFR Communication	KZ	2
	Abbreviations, Q-codes, Transport message categories, Transmission technique,, Transmission of letters, numbers, time and symbols		-
	hts, Radar procedural phraseology, Standard phraseology and Morse code, Practical IFR radiotelephony procedures in normal and e		
21KPSL	Communication and Surveillance Systems in Aviation	ZK	3
The course acqu	aints students with communication and surveillance systems both from the perspective of the air segment (aircraft systems) and fron infrastructure (ground systems), which together create the necessary prerequisites for ensuring safe, efficient and economical air tr		ground
21KSA	KSA Assessment	-	
	 Management of flight path. Automation of flight. Leadership and teamwork. Problem solving. Decision making. Situation awarness. Wo	KZ	2
Communication.	preventation and recovery training. Mental math.	nitioda manageme	п. орзог
21LAP1	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		
	engines, instruments and systems, analyzes relating to topics of air traffic, operational procedures, relevant legislation and operators		.,
21LAP2	Aviation English for Professional Pilot 2	Z,ZK	3
	on repetition and smoother communication within VFR and IFR communication, communication with technical staff at the airport, a f		
	airlines.		
21LCM	Aircraft Engines	Z,ZK	3
Aircraft piston eng	ine, theoretical background, operational characteristics and construction schemes. Propellers, operational characterictics. Turbine en	gine, theoretical ba	ckground,
thermal cycles, co	onstruction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational ch	aracteristics. Engin	e control.
21LDA1	Aircraft 1	Z,ZK	3
Aircraft structural a	nd conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and ca	-	ft loadings.
	Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic		
21LDA2	Aircraft 2	Z,ZK	4
Manufacturers resp	onsibility, responsibilities of operator and professional supervising. Legislation in area of airworthiness. International and national stan		y of aircraft
- / · - · · ·	structures. Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presur		
21LEIS	Aerodromes	Z,ZK	3
	s. Applicability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mar arkers. Visual aids for denoting obstacles. Obstacle restriction, removal. Visual aids for navigation, lights, approach lighting systems. V	-	I
iviai kirigs. Sigris. ivi	systems. Runway lights. Taxiway lights. Visual aids for denoting obstacles.	isuai appioacii sioj	e indicator
21LEY1	Air Law 1	ZK	3
	c 7300; ICAO Doc 7500 and 9626; International Organizations: ICAO, IATA, EASA, EUROCONTROL; airworthiness; ICAO Annexes;		-
,	965/2012.		(==)
21LEY2	Air Law 2	ZK	3
The course is focus	ed on the issue of commercial commercial air transport in accordance with applicable European legislation. Within the course, the issue	of EC regulations	s analyzed
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.
21LILE	Human Factors in Aviation	KZ	3
Human factors in	aviation. Breathing, atmosphere. Heart and circulation. Radiation. Human sensory organs, nervous system. Vision, hearing, illusions.	Health and hygien	e, fatigue,
	wakefulness and sleep. Information processing, human error. Cockpit management. Behaviour and workload. Automation. Core com	petencies.	
21LPTY-E	Aircraft Operations	ZK	2
	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	basics of flight con	
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	es related to Study	ileiu FIL
	(Professional Pilot) in all three years.		
21LPX2	(Professional Pilot) in all three years. Flight Training 2	KZ	2
21LPX2 Practical exercise	(Professional Pilot) in all three years. Flight Training 2 s for improvement of theoretical knowledge in a range MEP land and IFR from the relevant subjects in accordance with Part FCL. The	KZ e basics of instrum	2 ent flying,
21LPX2 Practical exercise	(Professional Pilot) in all three years. Flight Training 2 s for improvement of theoretical knowledge in a range MEP land and IFR from the relevant subjects in accordance with Part FCL. The tergency procedures, descents and navigation flights. This course is intended only for long-term student, who are in integrated pilots in the course is intended only for long-term.	KZ e basics of instrum	2 ent flying,
21LPX2 Practical exercise dual exercises, em	(Professional Pilot) in all three years. Flight Training 2 s for improvement of theoretical knowledge in a range MEP land and IFR from the relevant subjects in accordance with Part FCL. The tergency 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.	KZ e basics of instrum training and study a	2 ent flying, all courses
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21LPX2 Practical exercise dual exercises, em 21LPX3	(Professional Pilot) in all three years. Flight Training 2 s for improvement of theoretical knowledge in a range MEP land and IFR from the relevant subjects in accordance with Part FCL. The lergency 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. Flight Training 3 Deepening of theoretical knowledge and practical examination of progress in professional competence in pilot skills and knowledge.	KZ e basics of instrum raining and study a	2 ent flying, all courses
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21LPX2 Practical exercise dual exercises, em 21LPX3 21LPX4	(Professional Pilot) in all three years. Flight Training 2 s for improvement of theoretical knowledge in a range MEP land and IFR from the relevant subjects in accordance with Part FCL. The lergency procedures, descents and navigation flights. This course is intended only for long-term student, who are in integrated pilots in related to Study field PIL (Professional Pilot) in all three years. Flight Training 3 Deepening of theoretical knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional examination of progr	KZ e basics of instrum training and study a KZ edge KZ	2 ent flying, all courses 2
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21LPX2 Practical exercise dual exercises, em 21LPX3 21LPX4 21LPX5 21LVIP Flight safety analys	(Professional Pilot) in all three years. Flight Training 2 s for improvement of theoretical knowledge in a range MEP land and IFR from the relevant subjects in accordance with Part FCL. The tergency procedures, descents and navigation flights. This course is intended only for long-term student, who are in integrated pilots is related to Study field PIL (Professional Pilot) in all three years. Flight Training 3 Deepening of theoretical knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot	KZ e basics of instrum raining and study a KZ edge KZ	2 ent flying, all courses 2 2 2 2 ion making
21LPX2 Practical exercise dual exercises, em 21LPX3 21LPX4 21LPX5 21LVIP Flight safety analys 21MEE1 Composition, size a	(Professional Pilot) in all three years. Flight Training 2 s for improvement of theoretical knowledge in a range MEP land and IFR from the relevant subjects in accordance with Part FCL. The regency procedures, descents and navigation flights. This course is intended only for long-term student, who are in integrated pilots is related to Study field PIL (Professional Pilot) in all three years. Flight Training 3 Deepening of theoretical knowledge and practical examination of progress in professional competence in pilot skills and knowledge per professional examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge per professional examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in pilot skills and knowledge and practical examination of progress in professional competence in p	KZ e basics of instrum raining and study a KZ edge KZ e	2 ent flying, all courses 2 2 2 2 ion making
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210BN			
- 1	General Navigation	ZK	5
	de and longitude. Reference systems. Circles on the Earth and distance. Calculations. Time. Magnetism and sirections. Wind and Special companies are provided in a companies and CS. Projections. Charles VER new and CS. Projections. Charles VER new and CS. Projections.	,	0,
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. Charts. VFR navigation in remote and oceanic areas.	ation. Nav Log prep	Daration and
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		1
	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		
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
04 DD 10	Annex 6, PART-OPS, Air operator, Aircraft operation, Operating procedures, Airplane equipment, Flight management, Airspa		
21PRJ2	Instrumentation 2 pic instruments (turn indicator, attitude indicator, directional gyro), inertial instruments, recording and monitoring systems, warning sy	ZK	3
Compass, gyrosco	(autopilot, flight director, autothrust), FMS, flight envelope protection, communication systems, flight computers.	ystems (TCAS, GF	W3), Al C3
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		1
theory 7. VFR flig	th planning- ICAO mapa, softwary 8. IFR flight planning- theory 9. PBN- RNAV, RNP 10. IFR flight planning- softwary 11. MRJT- OFF	P 12. ETOPS a NA	T HLA 13.
	PET, PSR, PNR 14. practical VFR a IFR flight planning		T
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	ns and procedures	, Runway
21PUP1	contamination	ZK	1 2
- 1	Instrumentation 1 In principles of instrumentation, electronic displays, basics of measurement - sensitivity and errors, engine instrumentation (pressure	I	eters fuel
	by measurement, torque and EPR measurement), indication in other aircraft systems (position, fire and icing indication, vibration mol		
,,	monitoring, aerometric instruments (sensors, altimeter, air speed indicator, VSI, ADC).	3/1	
21RNV	Radionavigation	Z,ZK	4
Ground direction fir	nder (VDF), ADF, VOR and Doppler VOR, DME, ILS, MLS, ground ATC radar, weather Radar, SSR and transponder. Radar utilization	for navigation duri	ng the flight.
Area navigation (R	NAV) - general philosophy, gauges and equipment, indication and sensors for RNAV, VOR/DME (RNAV). Autopilot and flight director	. Satellite navigation	on, systems
0400114	and backups.	_	
21SBU1	Bachelor Thesis Seminar 1	Z	1
	riew, applied research, basic research, thesis dealing with design proposals). Working with citation sources (citation sources, citation e). Analyzing the state of the art (standards of research writing). Defining the limitations of the state of the art. Introduction to the these		i styles, now
21SBU2	Bachelor Thesis Seminar 2	Z	1
	nesis writing (introduction, analysis of the current state, specification of the problem, objectives and hypotheses). Definition of materia	_	pproach to
	taining results, presentation and discussion of results, formulation of thesis conclusions. Basics of LaTeX, working with LaTeX and W		
21SBU3	Bachelor Thesis Seminar 3	Z	1
	Bachelor Thesis Seminar 3 hic design of the thesis. Data collection and presentation, basic statistical reasoning, validation of results and designs. Achieving the	_	1 hesis and
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21Y1RZ	Human Resources Management	KZ	2		
The position of human resources in the organization and related disciplines file. Substance, importance and challenges of human resources management. Internal and external					
environment of human resource management. Human resource planning. Search, recruitment and selection of employees. Motivation, evaluation and remuneration of staff. Positioning,					
dismissal and redundancies of employees. Education of employees. Planning career management.					
21ZYT1	Principles of Flight 1	Z,ZK	3		
Aerodynamic drag, relation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and pressures around wing, angle of					
attack, reactions of wing in air flow, lift and drag of a wing and an aircraft, coefficient of lift and drag, critical angle of attack, wing with final span, induced drag, interference, devices for					
lift and drag increase.					
21ZYT2	Principles of Flight 2	Z,ZK	3		
Static & Directional & Static					
(longitudinal), yaw (directional) & amp; roll (lateral), roll/yaw interaction, trimming, speed of sound, Mach number, compressibility, shock waves, critical Mach number, aerodynamic					
heating, operating limitations, manoeuvring envelope, gust-load diagram.					
22X31	Project 1	Z	2		
22X32P	Project 2 PIL-CS	Z	2		
22X33	Project 3	Z	2		

For updated information see http://bilakniha.cvut.cz/en/FF.html Generated: day 2025-11-17, time 08:16.