### Recomended pass through the study plan

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

Faculty/Institute/Others:

Department:

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

Branch of study guranteed by the department: Welcome page

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

Note on the pass:

Coding of roles of courses and groups of courses:

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

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

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

#### Number of semester: 1

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
11CAL1	Calculus 1 Tomáš Tasák, Olga Vraštilová, Magdalena Hykšová, Bohumil Ková, Ond ej Navrátil <b>Bohumil Ková</b> Ond ej Navrátil (Gar.)	Z,ZK	7	2P+4C+22B	Z	Z
11GIE	Geometry Old ich Hykš, Pavel Provinský, Šárka Vorá ová Old ich Hykš Old ich Hykš (Gar.)	KZ	3	2P+2C+12B	Z	Z
11LA	Linear Algebra Pavel Provinský, Lucie Kárná, Martina Be vá ová Martina Be vá ová Martina Be vá ová (Gar.)	Z,ZK	3	2P+1C+10B	Z	Z
210BN	General Navigation Jan Slezá ek Radoslav Zozu ák	ZK	5	4P+0C	Z	Z
21SVFR	VFR Communication	Z	4	2P+1C	Z	Z
21TVFR	Theory for VFR Training  Ladislav Capoušek	Z,ZK	8	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+20B	B L	Z
15JZ1A	Foreign Language - English 1  Markéta Vojanová, Dana Boušová, Marie Michlová, Marek Tome ek, Jan Feit, Markéta Musilová, Peter Morpuss, Jitka He manová, Eva Rezlerová Lenka Monková (Gar.)	Z	3	0P+4C+10B	3 Z	Z
21CON	Navigation Calculations	KZ	2	0P+2C	L	Z
21HAV	Weight and Balance of Aircraft	Z,ZK	3	2P+2C	L	Z
21LDA1	Aircraft 1	Z,ZK	3	2P+1C	L	Z
21LTP1	Air Law 1	KZ	3	3P+0C	L	Z
21LPX1	Flight Training 1	KZ	2	0P+1C	Z,L	Z
21PRJ1	Instrumentation 1 Pavel Hovorka Jakub Hospodka (Gar.)	ZK	2	2P+0C	L,Z	Z
11STAT	Statistics	Z,ZK	4	2P+2C+12B	B L	Z
21ZKL1	Principles of Flight 1 Vladimír Socha (Gar.)	ZK	3	2P+1C	L	Z

Number of semester: 3

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
15JZ2A	Foreign Language - English 2  Marek Tome ek (Gar.)	Z,ZK	3	0P+4C+10B	L	Z
21EKL	Air Transport Economy	Z,ZK	3	2P+1C	Z	Z
11FYZ	Physics Old ich Hykš, Pavel Demo, Zuzana Malá, Tomáš Vít , Jana Kuklová Jana Kuklová Pavel Demo (Gar.)		5	2P+2C+18B	Z	Z
21LTA2	Aircraft 2	Z,ZK	2	2P+1C	Z	Z
21APL1	Aviation English 1 for Professional Pilot	Z	3	0P+4C	Z	Z
21LPX2	Flight Training 2 Jakub Hospodka, Iveta Kameníková, Jakub Charezinski, Roman Matyáš Iveta Kameníková	KZ	2	0P+1C	L,Z	Z
21LPTY	Aircraft Operations  Ladislav Capoušek	ZK	2	2P+0C	Z	Z
21PRJ2	Instrumentation 2 Pavel Hovorka Jakub Hospodka (Gar.)	ZK	3	2P+0C	L,Z	Z
21RDN	Radionavigation	Z,ZK	3	3P+1C	Z	Z
21VL	Aircraft Performance	Z,ZK	4	2P+2C	Z	Z
11SCFZ	Seminar of Physics Old ich Hykš, Zuzana Malá, Tomáš Vít , Jana Kuklová <b>Zuzana Malá</b> Zuzana Malá (Gar.)		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
11EMO	Electromagnetic Field and Optics  Zuzana Malá	Z,ZK	4	2P+1C	L	Z
21APL2	Aviation English 2 for Professional Pilot	Z,ZK	3	0P+4C	L	Z
21LPX3	Flight Training 3	KZ	2	0P+1C	L	Z
21LCLT	Human Factors in Aviation	ZK	3	3P+0C	L	Z
21MRG1	Meteorology 1	KZ	3	2P+2C	L	Z
11MSP	Modeling of Systems and Processes  Bohumil Ková	Z,ZK	4	2P+2C+12B	B L	Z
21PML	Flight Planning and Monitoring	Z,ZK	3	2P+2C	L	Z
21PKL1	Advanced Flying 1	KZ	4	2P+2C	L	Z
21SIFR	IFR Communication	Z	2	1P+1C	L	ZP
11SEMO	Seminar of Electromagnetic Field and Optics  Zuzana Malá	Z	0	0P+2C	L	Z
		Min. cours.				
X1-BP-PIL-CS-22/23	Projekty Bc. prezen ní PIL (CS) od 2022/23 11X31,12X31, (see the list of groups below)	3	Min/Max			70
		Max. cours.	6/6			ZP
		3				

## Number of semester: 5

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
15JZ3A	Foreign Language - English 3 Markéta Vojanová, Dana Boušová, Marie Michlová, Marek Tome ek, Jan Feit, Markéta Musilová, Peter Morpuss, Jitka He manová, Eva Rezlerová,	Z	3	0P+4C	Z	Z
21LTP2	Air Law 2 Radoslav Zozu ák	Z,ZK	3	3P+0C	Z	Z
21LPX4	Flight Training 4 Jakub Hospodka, Iveta Kameníková, Jakub Charezinski, Roman Matyáš Iveta Kameníková	KZ	2	0P+1C	Z	Z
21MET2	Meteorology 2 Iveta Kameníková Iveta Kameníková	Z,ZK	5	2P+2C	L,Z	Z
21PKL2	Advanced Flying 2 Viktor Valenta	ZK	2	2P+0C	Z	Z

21PRKP	Practical Flight Planning  Jakub Hospodka	Z,ZK	4	2P+2C	Z	Z
21PPY1	Operational Procedures 1  Ladislav Capoušek	Z,ZK	3	2P+1C	Z	ZP
21SBP	Bachelor's Thesis Seminar Vladimír Socha, Lenka Hanáková, Marta Urbanová Marta Urbanová	Z	1	0P+1C	Z	Z
21ZKL2	Principles of Flight 2	ZK	3	2P+1C	Z	Z
	Projekty Bc. prezen ní PIL (CS) od 2022/23 11X31,12X31, (see the list of groups below)	Min. cours.				
V4 DD DII 00 00/00		3	Min/Max			
X1-BP-PIL-CS-22/23		Max. cours.	6/6			ZP
		3				
		Min. cours.				
V4 DD DII 00 04/05	PVP-B Bc. prezen ní PIL (CS) od 2024/25 15Y1EH,15Y1HE, (see the list of groups below)	2	Min/Max			
Y1-BP-PIL-CS-24/25		Max. cours.	4/4			PV
		2				

### Number of semester: 6

Code	Tutors, authors and guarantors (gar.)		Credits	Scope	Semester	Role
14AP	Algorithm and Programming	KZ	4	2P+2C	L	Z
15JZ4A	Foreign Language - English 4	Z,ZK	3	0P+4C	L	Z
21KPSL	Communication and Surveillance Systems in Aviation Stanislav Pleninger	ZK	3	2P+0C	L	Z
21KSAV	KSA Assessment Radoslav Zozu ák	Z,ZK	2	0P+2C	L	Z
21LVPK	MCC - Multicrew Cooperation	Z	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
21PPY2	Operational Procedures 2 Ladislav Capoušek	ZK	4	3P+0C	L	ZP
X1-BP-PIL-CS-22/23	Projekty Bc. prezen ní PIL (CS) od 2022/23 11X31,12X31, (see the list of groups below)	Min. cours. 3 Max. cours. 3	Min/Max 6/6			ZP
Y1-BP-PIL-CS-24/25	PVP-B Bc. prezen ní PIL (CS) od 2024/25 15Y1EH,15Y1HE, (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 o group (for specificati	f courses a ion see her	and codes of members of the or below the list of cours	nis es) Com	pletion	Credits	Scope	Semester	Role	
X1-BP-F	PIL-CS-22/23			PIL (CS) od 2022/23	Min	Min. cours.		Min. cours.  3 Min/Max Max. cours. 6/6			ZP
11X31	Project 1		12X31	Project 1		14X31	P	roject 1			
15X31	Project 1		16X31	Project 1		17X31	Р	roject 1			
18X31	Project 1		20X31	Project 1		21X31	Р	roject 1			
22X31	Project 1		23X31	Project 1		11X32	Р	roject 2			
12X32	Project 2		14X32	Project 2		15X32	Р	roject 2			
16X32	Project 2		17X32	Project 2		18X32	Р	roject 2			
20X32	Project 2		21X32	Project 2		22X32	Р	roject 2			
23X32	Project 2		11X33	Project 3		12X33	Р	roject 3			

14X33	Project 3		15X33	Project 3		16X33		Project 3		
17X33	Project 3		18X33 Project		20X3		Project 3			
21X33	Project 3		22X33	Project 3		23X33	X33 Project 3			
					Min	. cours.				
Y1-BP-PIL-CS-24/25						2	Min/Ma	ax		
		PVP-B Bc. p	ezen ní PIL (CS) od 2024/25			. cours.	4/4			PV
					Wax		"'			
						2				
15Y1EH	European	Integration within Hist	15Y1HE	Work Hygiene and Ergonomics in	Ť	15Y1ZV	·	East-West did	hotomy: Preluc	le to
18Y1AM	Anatomy, I	Mobility and Safety of	18Y1EM	Experimental Methods in Mechani	С	21Y1MP		Matlab for pro	ject-oriented st	ud
21Y1OH	Airline Bus	iness and Operations	15Y1BO	Work Safety and Health Protectio		15Y1HL		History of Civil Aviation		
17Y1LL	Logistics o	f Passenger and Freig	18Y1MT	Engineering Materials		18Y1PD		Computer Simulations in Transpor		nspor
18Y1PS	Computer	Simulations in Mechanic	21Y1BC	Aviation safety and security		21Y1BS Unmanned aircraft systems 1			1	
21Y1RZ	Human Re	sources Management	00Y1XB	Active participation in a scient						

# List of courses of this pass:

Code Name of the course		Completion	Credits	
00Y1XB	Active participation in a scientific project, workshop, short-term trip abroad	KZ	2	
11CAL1	Calculus 1	Z,ZK	7	
Sequence of real nur	mbers and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative. Indefinite integral, Newton inte Riemann integral. First-order differential equations, linear differential equations.	gral, Riemann integr	al, imprope	
11CAL2	Calculus 2	Z,ZK	5	
	differential equations and their systems, differential calculus of functions of several real variables. Riemann integral in Rn. Line and			
11EMO	Electromagnetic Field and Optics Electric field. Electric current. Magnetic field. Electromagnetic field. Optics. Basics of solid-state physics.	Z,ZK	4	
11FYZ	Physics	Z,ZK	5	
k	Kinematics, dynamics, Newton's laws, force fields, mechanics of continuum, thermodynamics, introduction to electrostatics and ele	ctric current.		
11GIE	Geometry	KZ	3	
Differential geometr	ry of curves - parameterization, the arc of the curve, torsion and curvature, Frenet's trihedron. Kinematics - a curve as a trajectory acceleration of a particle moving on a curved path.	of the motion, the v	elocity, and	
11LA	Linear Algebra	Z,ZK	3	
vector spaces (linea	ar combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and th	eir solvability. Deteri	ninants an	
	their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classifications	ation.		
11MSP	Modeling of Systems and Processes	Z,ZK	4	
Svetem and subsyste	em, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of diffe	rential and differentia	al equations	
Jysterri ariu subsysti				
-	inear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer funct Discretization of continuous systems. System interconnection	ion. Stability of LTI s	systems.	
Linear and nonli	Discretization of continuous systems. System interconnection.			
-	Discretization of continuous systems. System interconnection.  Seminar of Physics	Z	ystems.	
Linear and nonli	Discretization of continuous systems. System interconnection.  Seminar of Physics  Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermore	Z		
Linear and nonli	Discretization of continuous systems. System interconnection.  Seminar of Physics  Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermos Seminar of Electromagnetic Field and Optics	Z dynamics.	0	
11SCFZ 11SEMO	Discretization of continuous systems. System interconnection.  Seminar of Physics  Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermore	Z dynamics.	0	
11SCFZ 11SEMO 11STAT	Discretization of continuous systems. System interconnection.  Seminar of Physics Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermos Seminar of Electromagnetic Field and Optics Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.	Z dynamics. Z	0 0	
11SCFZ 11SEMO 11STAT	Discretization of continuous systems. System interconnection.  Seminar of Physics Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermos Seminar of Electromagnetic Field and Optics Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.  Statistics	Z dynamics. Z	0 0	
11SCFZ 11SEMO 11STAT	Discretization of continuous systems. System interconnection.  Seminar of Physics Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermos Seminar of Electromagnetic Field and Optics Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.  Statistics ty Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Param	Z dynamics. Z	0 0	
11SCFZ 11SEMO 11STAT Basics of probabilit	Discretization of continuous systems. System interconnection.  Seminar of Physics  Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermore Seminar of Electromagnetic Field and Optics  Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.  Statistics  ty Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Param Regression and correlation analysis  Project 1	Z dynamics. Z Z,ZK etric tests Nonparan	0 0 4 netric tests	
11SCFZ 11SEMO 11STAT Basics of probabilit 11X31	Discretization of continuous systems. System interconnection.  Seminar of Physics  Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermos Seminar of Electromagnetic Field and Optics  Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.  Statistics  ty Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Param Regression and correlation analysis	Z dynamics. Z Z,ZK etric tests Nonparan	0 0 4 netric tests	
11SCFZ 11SEMO 11STAT Basics of probabilit 11X31 11X32	Discretization of continuous systems. System interconnection.  Seminar of Physics  Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermone Seminar of Electromagnetic Field and Optics  Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.  Statistics  ty Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Param Regression and correlation analysis  Project 1  Project 2  Project 3	Z dynamics.  Z Z,ZK etric tests Nonparan  Z Z	0 0 4 netric tests 2 2	
11SCFZ 11SEMO 11STAT Basics of probabilit 11X31 11X32 11X33	Discretization of continuous systems. System interconnection.  Seminar of Physics  Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermos Seminar of Electromagnetic Field and Optics  Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.  Statistics  ty Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Param Regression and correlation analysis  Project 1  Project 2  Project 3  Project 1	Z dynamics.  Z Z,ZK etric tests Nonparan  Z Z Z Z	0 0 4 netric tests 2 2 2 2	
11SCFZ 11SEMO 11STAT Basics of probabilit 11X31 11X32 11X33 12X31	Discretization of continuous systems. System interconnection.  Seminar of Physics  Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermone Seminar of Electromagnetic Field and Optics  Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.  Statistics  ty Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Param Regression and correlation analysis  Project 1  Project 2  Project 3	Z dynamics.  Z,ZK etric tests Nonparan  Z Z Z Z Z	0 0 4 netric tests 2 2 2 2 2	
11SCFZ 11SEMO 11STAT Basics of probabilit 11X31 11X32 11X33 12X31 12X32	Discretization of continuous systems. System interconnection.  Seminar of Physics  Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermore Seminar of Electromagnetic Field and Optics  Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.  Statistics  ty Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Param Regression and correlation analysis  Project 1  Project 2  Project 3  Project 1  Project 2  Project 3  Project 3  Project 3  Project 3  Project 3	Z dynamics.  Z Z,ZK etric tests Nonparan  Z Z Z Z Z	0 0 4 netric tests 2 2 2 2 2 2 2	
11SCFZ 11SEMO 11STAT Basics of probabilit 11X31 11X32 11X33 12X31 12X32 12X33 14AP	Discretization of continuous systems. System interconnection.  Seminar of Physics  Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodology is solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.  Statistics  ty Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Param Regression and correlation analysis  Project 1  Project 2  Project 3  Project 1  Project 2	Z dynamics.  Z Z,ZK etric tests Nonparan  Z Z Z Z Z Z Z KZ	0 0 4 netric tests 2 2 2 2 2 2 4	
11SCFZ 11SEMO 11STAT Basics of probabilit 11X31 11X32 11X33 12X31 12X32 12X33 14AP Computers, data re	Discretization of continuous systems. System interconnection.  Seminar of Physics  Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermoderan Seminar of Electromagnetic Field and Optics  Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.  Statistics  ty Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Param Regression and correlation analysis  Project 1  Project 2  Project 3  Project 1  Project 2  Project 3  Algorithm and Programming  spresentation, 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	Z dynamics.  Z Z,ZK etric tests Nonparan  Z Z Z Z Z Z KZ And sorting algorithm	0  4 netric tests  2 2 2 2 2 4 ns, abstract	
11SCFZ 11SEMO 11STAT Basics of probabilit 11X31 11X32 11X33 12X31 12X32 12X33 14AP Computers, data re	Discretization of continuous systems. System interconnection.  Seminar of Physics  Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermore Seminar of Electromagnetic Field and Optics  Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.  Statistics  ty Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Param Regression and correlation analysis  Project 1  Project 2  Project 3  Project 1  Project 2  Project 3  Algorithm and Programming epresentation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, searching and programming languages, introduction to Python language, lists, searching and programming languages, introduction to Python language, lists, searching and programming languages, introduction to Python language, lists, searching and programming languages, introduction to Python language, lists, searching and programming languages, introduction to Python language, lists, searching and programming languages, introduction to Python language, lists, searching and programming languages, introduction to Python language, lists, searching and programming languages, introduction to Python language, lists, searching and programming languages, introduction to Python language, lists, searching and programming languages, introduction to Python language, lists, searching and programming languages, introduction to Python language, lists, searching and programming languages, introduction to Python language, lists, searching and programming languages, introduction to Python language, lists, searching and programming languages, introduction to Python language.	Z dynamics.  Z Z,ZK etric tests Nonparan  Z Z Z Z Z Z Z A Z A Z A Z Z Z Z Z Z Z	0  4 netric tests  2 2 2 2 2 4 ns, abstrac	
11SCFZ 11SEMO 11STAT Basics of probabilit 11X31 11X32 11X33 12X31 12X32 12X33 14AP Computers, data re data types (set, tup	Discretization of continuous systems. System interconnection.  Seminar of Physics  Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermoder Seminar of Electromagnetic Field and Optics  Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.  Statistics  ty Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Param Regression and correlation analysis  Project 1  Project 2  Project 3  Project 1  Project 2  Project 3  Algorithm and Programming  presentation, 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 programming	Z dynamics.  Z Z,ZK etric tests Nonparan  Z Z Z Z Z Z Z Z A Z A Z A A A A A A A	0 0 4 netric tests 2 2 2 2 2 4 ns, abstracted oriented	
11SCFZ 11SEMO 11STAT Basics of probabilit 11X31 11X32 11X33 12X31 12X32 12X33 14AP Computers, data re data types (set, tup	Discretization of continuous systems. System interconnection.  Seminar of Physics  Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodynamics of particle systems and rigid body. Continuum mechanics, thermodynamics of particle systems and rigid body. Continuum mechanics, thermodynamics of particle systems and rigid body. Continuum mechanics, thermodynamics of particle systems and rigid body. Continuum mechanics, thermodynamics of particle systems and rigid body. Continuum mechanics, thermodynamics of particle systems and rigid body. Continuum mechanics, thermodynamics of particle systems and rigid body. Continuum mechanics, thermodynamics of particle systems and rigid body. Continuum mechanics, thermodynamics of particle systems and rigid body. Continuum mechanics, thermodynamics of particle systems and rigid body. Continuum mechanics, thermodynamics of particle systems and rigid body. Continuum mechanics, thermodynamics of particle systems and rigid body. Continuum mechanics, thermodynamics of particle systems and rigid body. Continuum mechanics, thermodynamics of particle systems and rigid body. Continuum mechanics, thermodynamics of particle systems and rigid body. Continuum mechanics, thermodynamics of particle systems and rigid body. Continuum mechanics, thermodynamics of particle systems and rigid body. Continuum mechanics, thermodynamics of particle systems and rigid body. Continuum mechanics, thermodynamics of particle systems and rigid body. Continuum mechanics, thermodynamics of particle systems and rigid body. Continuum mechanics, thermodynamics of particle systems and rigid body. Continuum mechanics, thermodynamics of particle systems and rigid body. Continuum mechanics, thermodynamics of particle systems and rigid body. Continuum mechanics, thermodynamics of particle systems and rigid body. Continuum mechanics, thermodynamics of particle systems and rigid body. Continuum mechanics, thermodynamics of particle systems and rigid b	Z dynamics.  Z Z,ZK etric tests Nonparan  Z Z Z Z Z Z Z A Z A Z A Z Z Z Z Z Z Z	0 0 4 netric tests 2 2 2 2 2 4 ns, abstracted oriented	

15JZ2A	Foreign Language - English 2	Z,ZK	3
<sub> </sub> Uranımandal SirüCli	ures and style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and co		Elementary
	stylistics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles of	of rhetoric.	
15JZ3A	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		
improvement in per	ceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral ar	nd written form. Ted	chnical texts
45 174 4	and their features; terminology.	7.71/	
15JZ4A	Foreign Language - English 4	Z,ZK	3
	and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Faculty's ceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral ar		
improvement in per	and their features; terminology.	id William Ioini. 100	inioai toxto
15X31	Project 1	Z	2
15X32	Project 2	Z	2
15X33	Project 3	Z	2
15Y1BO	Work Safety and Health Protection in Transportation	KZ	2
	lative, definition of terms, risks and possible health damage, working conditions and health protection with focus on transportation. H		
· · · · · · · · · · · · · · · · · · ·	health insurance of home and foreign business trips, statistics, working practice.		- g
15Y1EH	European Integration within Historical Context	KZ	2
Versailles system,	formation of new states. Europe and the powers, League of Nations. European policy in the 1920s. Fascism, nacism, communism. Li	ttle Entente, its pri	nciples and
goals. Europe afte	er Hitler's getting to power, system of bilateral agreements. Decline of the LN. Rearrangement of powers during WWII. Cold war and i	ts consequences for	or Europe.
	New quality of French-German relationship - a driving power of starting European integration.		
15Y1HE	Work Hygiene and Ergonomics in Traffic	KZ	2
	of occupational hygiene and ergonomics, and their application in transport. Working environment factors, and the influence of these		
Creation and protein	ction of working conditions that do not damage public health. Mutual links: man-machine-environment. Adaptation of technology to portion of techno	ossibilities and skill	is of a man.
15Y1HL	History of Civil Aviation	KZ	2
	r listory of Civil Aviation. g, development of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of a		
	amous aviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era o	•	
	aviation. Modern era of civil aviation. Airline companies. Supersonic flying.		
15Y1ZV	East-West dichotomy: Prelude to the Cold War	KZ	2
Historical prologue,	evolution of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continu	ity of the internation	nal relations
in the end of 19th	century and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the	e causes and cons	equences.
	Economic and financial history. Social changes. Discussions on texts, sources.		
16X31	Project 1	Z	2
16X32	Project 2	Z	2
16X33	Project 3	Z	2
17X31	Project 1	Z	2
17X32	Project 2		
	•	Z	2
17X33	Project 3	Z	2
17X33 17Y1LL	Project 3  Logistics of Passenger and Freight Air Transport	Z KZ	2
17X33 17Y1LL	Project 3  Logistics of Passenger and Freight Air Transport ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial trans	Z KZ	2
17X33 17Y1LL Logistics airline pas	Project 3  Logistics of Passenger and Freight Air Transport ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transair cargo. Information systems in air transport. Global distribution systems.	Z KZ sport process pass	2 2 sengers and
17X33 17Y1LL Logistics airline pas	Project 3  Logistics of Passenger and Freight Air Transport ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transair cargo. Information systems in air transport. Global distribution systems.  Project 1	Z KZ sport process pass Z	2 2 sengers and 2
17X33 17Y1LL Logistics airline pas 18X31 18X32	Project 3  Logistics of Passenger and Freight Air Transport ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transair cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2	Z KZ sport process pass Z Z	2 2 sengers and 2 2
17X33 17Y1LL Logistics airline pas 18X31 18X32 18X33	Project 3  Logistics of Passenger and Freight Air Transport ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transair cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2  Project 3	Z KZ sport process pass Z Z Z	2 2 sengers and 2 2 2
17X33 17Y1LL Logistics airline pas 18X31 18X32 18X33 18Y1AM	Project 3  Logistics of Passenger and Freight Air Transport ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transair cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2  Project 3  Anatomy, Mobility and Safety of Man	Z KZ sport process pass Z Z Z KZ	2 2 sengers and 2 2 2 2 2
17X33 17Y1LL Logistics airline pas  18X31 18X32 18X33 18Y1AM Survey of tissues. A	Project 3  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 transport cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2  Project 3  Anatomy, Mobility and Safety of Man natomical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation	Z KZ sport process pass Z Z Z KZ and nervous system	2 2 sengers and 2 2 2 2 m. Structure
17X33 17Y1LL Logistics airline pas  18X31 18X32 18X33 18Y1AM Survey of tissues. A	Project 3  Logistics of Passenger and Freight Air Transport ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transair cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2  Project 3  Anatomy, Mobility and Safety of Man	Z KZ sport process pass Z Z Z KZ and nervous system	2 2 sengers and 2 2 2 2 m. Structure
17X33 17Y1LL Logistics airline pas  18X31 18X32 18X33 18Y1AM Survey of tissues. A	Project 3  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 transport cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2  Project 3  Anatomy, Mobility and Safety of Man natomical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation of muscular-skeletal system. Injury of human organs and musculo-skeletal system during traffic accidents. Mobility of ill and injured muscular-skeletal system.	Z KZ sport process pass Z Z Z KZ and nervous system	2 2 sengers and 2 2 2 2 m. Structure
17X33 17Y1LL Logistics airline pas  18X31 18X32 18X33 18Y1AM Survey of tissues. A and biomechanics of	Project 3  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 transport air cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2  Project 3  Anatomy, Mobility and Safety of Man natomical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation of muscular-skeletal system. Injury of human organs and musculo-skeletal system during traffic accidents. Mobility of ill and injured no joint prostheses. Protective means and traffic safety regulations.	Z KZ sport process pass Z Z Z KZ and nervous systeman and his treatm KZ	2 2 sengers and  2 2 2 2 m. Structure ent. Human
17X33 17Y1LL Logistics airline pas  18X31 18X32 18X33 18Y1AM Survey of tissues. A and biomechanics of the purpose and reference and reference are proposed a	Project 3  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 transport cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2  Project 3  Anatomy, Mobility and Safety of Man natomical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation of muscular-skeletal system. Injury of human organs and musculo-skeletal system during traffic accidents. Mobility of ill and injured in joint prostheses. Protective means and traffic safety regulations.  Experimental Methods in Mechanics	Z KZ sport process pass Z Z Z KZ and nervous systeman and his treatm KZ testing of materials	2 2 sengers and 2 2 2 2 m. Structure ent. Human 2 s. Design of
17X33 17Y1LL Logistics airline pas  18X31 18X32 18X33 18Y1AM Survey of tissues. A and biomechanics of the purpose and reception of t	Project 3  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 transair cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2  Project 3  Anatomy, Mobility and Safety of Man natomical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation of muscular-skeletal system. Injury of human organs and musculo-skeletal system during traffic accidents. Mobility of ill and injured in joint prostheses. Protective means and traffic safety regulations.  Experimental Methods in Mechanics ole of experimental mechanics. Sensors for mechanical testing. Overview of experimental methods. Destructive and non-destructive cedures and sample preparation. Tensile and bending tests. Electrical resistance strain gages. Optical based strain measurement. Fa	Z KZ sport process pass Z Z Z KZ and nervous systeman and his treatm KZ testing of materials tigue and lifetime p	2 2 sengers and  2 2 2 2 m. Structure ent. Human  2 s. Design of orediction.
17X33 17Y1LL Logistics airline pas  18X31 18X32 18X33 18Y1AM Survey of tissues. A and biomechanics of the purpose and reception of t	Project 3  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 transport air cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2  Project 3  Anatomy, Mobility and Safety of Man natomical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation of muscular-skeletal system. Injury of human organs and musculo-skeletal system during traffic accidents. Mobility of ill and injured in joint prostheses. Protective means and traffic safety regulations.  Experimental Methods in Mechanics ole of experimental mechanics. Sensors for mechanical testing. Overview of experimental methods. Destructive and non-destructive production are strain gages. Optical based strain measurement. Far Instrumented hardness testing. Introduction to electron microscopy. Errors in measurement.  Engineering Materials	Z KZ sport process pass Z Z Z KZ and nervous systeman and his treatm KZ testing of materials tigue and lifetime p	2 2 sengers and  2 2 2 2 m. Structure ent. Human  2 s. Design of orediction.
17X33 17Y1LL Logistics airline pas  18X31 18X32 18X33 18Y1AM Survey of tissues. A and biomechanics of the purpose and reception of the purpose and reception of the purpose and resperimental process. A systematic overvie	Project 3  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 transair cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2  Project 3  Anatomy, Mobility and Safety of Man natomical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation of muscular-skeletal system. Injury of human organs and musculo-skeletal system during traffic accidents. Mobility of ill and injured in joint prostheses. Protective means and traffic safety regulations.  Experimental Methods in Mechanics ole of experimental mechanics. Sensors for mechanical testing. Overview of experimental methods. Destructive and non-destructive production and sample preparation. Tensile and bending tests. Electrical resistance strain gages. Optical based strain measurement. Far Instrumented hardness testing. Introduction to electron microscopy. Errors in measurement.  Engineering Materials  we of main classes of materials used in technical design. In addition to main classes of materials, i. e. metals, ceramics, polymers and	Z KZ Sport process pass Z Z Z KZ and nervous systeman and his treatm KZ testing of materials tigue and lifetime p KZ d composites, atter	2 2 sengers and  2 2 2 2 m. Structure ent. Human  2 s. Design of orediction.
17X33 17Y1LL Logistics airline pas  18X31 18X32 18X33 18Y1AM Survey of tissues. A and biomechanics of the purpose and reception of t	Project 3  Logistics of Passenger and Freight Air Transport ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transair cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2  Project 3  Anatomy, Mobility and Safety of Man natomical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation of muscular-skeletal system. Injury of human organs and musculo-skeletal system during traffic accidents. Mobility of ill and injured in joint prostheses. Protective means and traffic safety regulations.  Experimental Methods in Mechanics ole of experimental mechanics. Sensors for mechanical testing. Overview of experimental methods. Destructive and non-destructive cedures and sample preparation. Tensile and bending tests. Electrical resistance strain gages. Optical based strain measurement. Fare Instrumented hardness testing. Introduction to electron microscopy. Errors in measurement.  Engineering Materials we of main classes of materials used in technical design. In addition to main classes of materials, i. e. metals, ceramics, polymers and orgical materials and to biomimetics. Integral approach to material selection process is also demonstrated based on so called Ashby's	Z KZ sport process pass Z Z KZ and nervous systeman and his treatm KZ testing of materials tigue and lifetime p KZ d composites, atters a selection charts.	2 2 sengers and  2 2 2 2 m. Structure ent. Human  2 s. Design of orediction.  2 ation is paid
17X33 17Y1LL Logistics airline pas  18X31 18X32 18X33 18Y1AM Survey of tissues. A and biomechanics of the purpose and reception of t	Project 3  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 transair cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2  Project 3  Anatomy, Mobility and Safety of Man natomical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation of muscular-skeletal system. Injury of human organs and musculo-skeletal system during traffic accidents. Mobility of ill and injured in joint prostheses. Protective means and traffic safety regulations.  Experimental Methods in Mechanics ole of experimental mechanics. Sensors for mechanical testing. Overview of experimental methods. Destructive and non-destructive dedures and sample preparation. Tensile and bending tests. Electrical resistance strain gages. Optical based strain measurement. Fareful Instrumented hardness testing. Introduction to electron microscopy. Errors in measurement.  Engineering Materials of main classes of materials used in technical design. In addition to main classes of materials, i. e. metals, ceramics, polymers and orgical materials and to biomimetics. Integral approach to material selection process is also demonstrated based on so called Ashby's Computer Simulations in Transportation	Z KZ sport process pass Z Z Z KZ and nervous systeman and his treatm KZ testing of materials tigue and lifetime p KZ d composites, atters a selection charts. KZ	2 2 sengers and  2 2 2 2 m. Structure ent. Human  2 s. Design of orediction.  2 stion is paid
17X33 17Y1LL Logistics airline pas  18X31 18X32 18X33 18Y1AM Survey of tissues. A and biomechanics of the purpose and reception of the purpose and	Project 3  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 transair cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2  Project 3  Anatomy, Mobility and Safety of Man natomical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation of muscular-skeletal system. Injury of human organs and musculo-skeletal system during traffic accidents. Mobility of ill and injured in joint prostheses. Protective means and traffic safety regulations.  Experimental Methods in Mechanics ole of experimental mechanics. Sensors for mechanical testing. Overview of experimental methods. Destructive and non-destructive redures and sample preparation. Tensile and bending tests. Electrical resistance strain gages. Optical based strain measurement. Farence and sample preparation. Tensile and bending tests. Electrical resistance strain gages. Optical based strain measurement. Farence and sample preparation. Tensile and bending tests. Electrical resistance strain gages. Optical based strain measurement. Farence and sample preparation. Tensile and bending tests and testing of materials.  Engineering Materials  we of main classes of materials used in technical design. In addition to main classes of materials, i. e. metals, ceramics, polymers and orgical materials and to biomimetics. Integral approach to material selection process is also demonstrated based on so called Ashby's Computer Simulations in Transportation  view of tools for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model developme	Z KZ sport process pass Z Z Z KZ and nervous systeman and his treatm KZ testing of materials tigue and lifetime p KZ d composites, atters selection charts. KZ nt and adaptation of	2 2 sengers and  2 2 2 2 m. Structure ent. Human  2 s. Design of orediction.  2 stion is paid  2 of geometry
17X33 17Y1LL Logistics airline pas  18X31 18X32 18X33 18Y1AM Survey of tissues. A and biomechanics of the purpose and recommendation of the purpose and	Project 3  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 transair cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2  Project 3  Anatomy, Mobility and Safety of Man natomical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation of muscular-skeletal system. Injury of human organs and musculo-skeletal system during traffic accidents. Mobility of ill and injured in joint prostheses. Protective means and traffic safety regulations.  Experimental Methods in Mechanics ole of experimental mechanics. Sensors for mechanical testing. Overview of experimental methods. Destructive and non-destructive dedures and sample preparation. Tensile and bending tests. Electrical resistance strain gages. Optical based strain measurement. Fareful Instrumented hardness testing. Introduction to electron microscopy. Errors in measurement.  Engineering Materials of main classes of materials used in technical design. In addition to main classes of materials, i. e. metals, ceramics, polymers and orgical materials and to biomimetics. Integral approach to material selection process is also demonstrated based on so called Ashby's Computer Simulations in Transportation	Z KZ sport process pass Z Z Z KZ and nervous systeman and his treatm KZ testing of materials tigue and lifetime p KZ d composites, atters selection charts. KZ nt and adaptation of	2 2 sengers and  2 2 2 2 m. Structure ent. Human  2 s. Design of orediction.  2 stion is paid  2 of geometry
17X33 17Y1LL Logistics airline pas  18X31 18X32 18X33 18Y1AM Survey of tissues. A and biomechanics of the purpose and recommendation of the purpose and	Project 3  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 transair cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2  Project 3  Anatomy, Mobility and Safety of Man natomical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation of muscular-skeletal system. Injury of human organs and musculo-skeletal system during traffic accidents. Mobility of ill and injured in joint prostheses. Protective means and traffic safety regulations.  Experimental Methods in Mechanics ole of experimental mechanics. Sensors for mechanical testing. Overview of experimental methods. Destructive and non-destructive bedures and sample preparation. Tensile and bending tests. Electrical resistance strain gages. Optical based strain measurement. Far Instrumented hardness testing. Introduction to electron microscopy. Errors in measurement.  Engineering Materials of materials used in technical design. In addition to main classes of materials, i. e. metals, ceramics, polymers and object and to biomimetics. Integral approach to material selection process is also demonstrated based on so called Ashby's Computer Simulations in Transportation view of tools for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model developme stems. Assignment of material properties. The types of elements and their use. Discretization of solid model. Boundary conditions and tasks of structural and modal analysis. Introduction to complex nonlinear problems.	Z KZ sport process pass Z Z Z KZ and nervous systeman and his treatm KZ testing of materials tigue and lifetime p KZ d composites, atters selection charts. KZ nt and adaptation of	2 2 sengers and  2 2 2 2 m. Structure ent. Human  2 s. Design of orediction.  2 stion is paid  2 of geometry
17X33 17Y1LL Logistics airline pas  18X31 18X32 18X33 18Y1AM Survey of tissues. A and biomechanics of the purpose and recommendation of the purpose and over from other CAE systematic overview from other CAE systematics.	Project 3  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 transair cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2  Project 3  Anatomy, Mobility and Safety of Man natomical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation of muscular-skeletal system. Injury of human organs and musculo-skeletal system during traffic accidents. Mobility of ill and injured in joint prostheses. Protective means and traffic safety regulations.  Experimental Methods in Mechanics ole of experimental mechanics. Sensors for mechanical testing. Overview of experimental methods. Destructive and non-destructive cedures and sample preparation. Tensile and bending tests. Electrical resistance strain gages. Optical based strain measurement. Far Instrumented hardness testing. Introduction to electron microscopy. Errors in measurement.  Engineering Materials on of materials used in technical design. In addition to main classes of materials, i. e. metals, ceramics, polymers and orgical materials and to biomimetics. Integral approach to material selection process is also demonstrated based on so called Ashby's Computer Simulations in Transportation  View of tools for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model developments and their use. Discretization of solid model. Boundary conditions and	Z KZ Sport process pass Z Z Z KZ and nervous systeman and his treatm KZ testing of materials tigue and lifetime passed to composites, atters a selection charts. KZ It composites, atters a selection charts. KZ Int and adaptation of the KZ	2 2 sengers and  2 2 2 2 m. Structure ent. Human  2 s. Design of orediction.  2 ation is paid  2 of geometry load. Basic  2
17X33 17Y1LL Logistics airline pas  18X31 18X32 18X33 18Y1AM Survey of tissues. A and biomechanics of the purpose and recommendation of the purpose and over from other CAE systematic overview from other CAE systematics and over from other CAE systematics and over the purpose and the purpose an	Project 3  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 transair cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2  Project 3  Anatomy, Mobility and Safety of Man natomical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation of muscular-skeletal system. Injury of human organs and musculo-skeletal system during traffic accidents. Mobility of ill and injured in joint prostheses. Protective means and traffic safety regulations.  Experimental Methods in Mechanics ole of experimental mechanics. Sensors for mechanical testing. Overview of experimental methods. Destructive and non-destructive bedures and sample preparation. Tensile and bending tests. Electrical resistance strain gages. Optical based strain measurement. Ear Instrumented hardness testing. Introduction to electron microscopy. Errors in measurement.  Engineering Materials we of main classes of materials used in technical design. In addition to main classes of materials, i. e. metals, ceramics, polymers and orgical materials and to biomimetics. Integral approach to material selection process is also demonstrated based on so called Ashby's Computer Simulations in Transportation view of tools for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model developme tasks of structureal and modal analysis. Introduction to complex nonlinear problems.  Computer Simulations in Mechanics view of tools for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model developme stems. Assignment of material properties. The types of elements and their use. Discretization of solid model. Boundary conditions and the stems. Assignment of material properties. The types of elements and their use. Discretization of solid model. Boundary co	Z KZ sport process pass Z Z Z KZ and nervous systeman and his treatm KZ testing of materials tigue and lifetime p KZ d composites, atters selection charts. KZ nt and adaptation of the KZ nt and adaptation of the	2 2 3eengers and 2 2 2 2 2 m. Structure ent. Human 2 s. Design of orediction. 2 ation is paid 2 of geometry load. Basic 2 of geometry
17X33 17Y1LL Logistics airline pass 18X31 18X32 18X33 18Y1AM Survey of tissues. A and biomechanics of the purpose and recommendation of the purpose and over from other CAE systematic overvier to biological systematic overview of the purpose and over from other CAE systematic overview of the purpose and over from other CAE systematic overview of the purpose and over from other CAE systematic overview of the purpose of	Project 3  Logistics of Passenger and Freight Air Transport ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transair cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2  Project 2  Project 3  Anatomy, Mobility and Safety of Man natomical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation of muscular-skeletal system. Injury of human organs and musculo-skeletal system during traffic accidents. Mobility of ill and injured in joint prostheses. Protective means and traffic safety regulations.  Experimental Methods in Mechanics ole of experimental mechanics. Sensors for mechanical testing. Overview of experimental methods. Destructive and non-destructive cedures and sample preparation. Tensile and bending tests. Electrical resistance strain gages. Optical based strain measurement. Far Instrumented hardness testing. Introduction to electron microscopy. Errors in measurement.  Engineering Materials and to biomimetics. Integral approach to material selection process is also demonstrated based on so called Ashby's Computer Simulations in Transportation view of tools for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model developme stems. Assignment of material properties. The types of elements and their use. Discretization of solid model. Boundary conditions and tasks of structural and modal analysis. Introduction to complex nonlinear problems.  Computer Simulations in Mechanics view of tools for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model developme stems. Assignment of material properties. The types of elements and their use. Discretization of solid model. Boundary conditions and tasks of structural and modal analysis. Introduction to complex nonlinear problems.	KZ Sport process pass  Z Z KZ And nervous systeman and his treatm  KZ testing of materials tigue and lifetime passes to the composites, atterns selection charts.  KZ It composites, atterns selection charts.  KZ Int and adaptation of the composite of the composi	2 2 sengers and  2 2 2 2 m. Structure ent. Human  2 s. Design of orediction.  2 of geometry load. Basic  2 of geometry load. Basic
17X33 17Y1LL Logistics airline pas  18X31 18X32 18X33 18Y1AM Survey of tissues. A and biomechanics of the purpose and recommendation of the purpose and recommendation of the purpose and over the pur	Project 3  Logistics of Passenger and Freight Air Transport ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transport air cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2  Project 3  Anatomy, Mobility and Safety of Man natomical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation of muscular-skeletal system. Injury of human organs and musculo-skeletal system during traffic accidents. Mobility of ill and injured in joint prostheses. Protective means and traffic safety regulations.  Experimental Methods in Mechanics ole of experimental mechanics. Sensors for mechanical testing. Overview of experimental methods. Destructive and non-destructive redures and sample preparation. Tensile and bending tests. Electrical resistance strain gages. Optical based strain measurement. Fa Instrumented hardness testing. Introduction to electron microscopy. Errors in measurement.  Engineering Materials w of main classes of materials used in technical design. In addition to main classes of materials, i. e. metals, ceramics, polymers and orgical materials and to biomimetics. Integral approach to material selection process is also demonstrated based on so called Ashby's Computer Simulations in Transportation view of tools for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model developme stems. Assignment of material properties. The types of elements and their use. Discretization of solid model. Boundary conditions and tasks of structures and modal analysis. Introduction to complex nonlinear problems.  Computer Simulations in Mechanics view of tools for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model developme stems. Assignment of material properties. The types of elements and their use. Discretization of solid model. Boundary cond	Z KZ Z Z KZ and nervous systeman and his treatm KZ testing of materials tigue and lifetime p KZ d composites, atters selection charts. KZ nt and adaptation of application of the CA d application of the CA Z	2 2 2 2 2 2 2 3 3 3 5 5 5 6 7 7 8 7 8 8 8 8 8 9 8 9 8 9 9 9 9 9 9 9
17X33 17Y1LL Logistics airline pas  18X31 18X32 18X33 18Y1AM Survey of tissues. A and biomechanics of the purpose and resperimental process of the purpose and resperimental process of the purpose and over from other CAE systematic overvier from other CAE systematic over the purpose and over from other CAE systematic overvier from other CAE systematic overview from	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 transair cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2  Project 3  Anatomy, Mobility and Safety of Man natomical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation of muscular-skeletal system. Injury of human organs and musculo-skeletal system during traffic accidents. Mobility of ill and injured in joint prostheses. Protective means and traffic safety regulations.  Experimental Methods in Mechanics  Ole of experimental mechanics. Sensors for mechanical testing. Overview of experimental methods. Destructive and non-destructive pedures and sample preparation. Tensile and bending tests. Electrical resistance strain gages. Optical based strain measurement. Fainstrumented hardness testing. Introduction to electron microscopy. Errors in measurement.  Engineering Materials  wo of main classes of materials used in technical design. In addition to main classes of materials, i. e. metals, ceramics, polymers and object and properties. The types of elements and their use. Discretization of solid model. Boundary conditions and tasks of structural and modal analysis. Introduction to complex nonlinear problems.  Computer Simulations in Mechanics view of tools for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model development tasks of structural and modal analysis. Introduction to complex nonlinear problems.  Computer Simulations in Mechanics view of tools for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model development tasks of structural and modal analysis. Introduction to complex nonlinear problems.  Computer Simulations in Mechanics view of tools for stress analysis of structures. The types of elements and their use. D	Z KZ Sport process pass Z Z KZ And nervous systeman and his treatm KZ testing of materials tigue and lifetime passes to the selection charts. KZ It composites, atters a selection charts. KZ Int and adaptation of application of the dapplication of	2 2 2 2 2 2 3 3 3 3 5 5 5 6 7 7 8 7 8 8 8 8 8 9 8 9 8 9 9 9 9 9 9 9
17X33 17Y1LL Logistics airline pass 18X31 18X32 18X33 18Y1AM Survey of tissues. A and biomechanics of the survey of tissues of the survey of tissues of the survey of tissues. A survey of tissues of the survey of tissues	Project 3  Logistics of Passenger and Freight Air Transport ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transport air cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2  Project 3  Anatomy, Mobility and Safety of Man natomical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation of muscular-skeletal system. Injury of human organs and musculo-skeletal system during traffic accidents. Mobility of ill and injured in joint prostheses. Protective means and traffic safety regulations.  Experimental Methods in Mechanics ole of experimental mechanics. Sensors for mechanical testing. Overview of experimental methods. Destructive and non-destructive redures and sample preparation. Tensile and bending tests. Electrical resistance strain gages. Optical based strain measurement. Fa Instrumented hardness testing. Introduction to electron microscopy. Errors in measurement.  Engineering Materials w of main classes of materials used in technical design. In addition to main classes of materials, i. e. metals, ceramics, polymers and orgical materials and to biomimetics. Integral approach to material selection process is also demonstrated based on so called Ashby's Computer Simulations in Transportation view of tools for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model developme stems. Assignment of material properties. The types of elements and their use. Discretization of solid model. Boundary conditions and tasks of structures and modal analysis. Introduction to complex nonlinear problems.  Computer Simulations in Mechanics view of tools for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model developme stems. Assignment of material properties. The types of elements and their use. Discretization of solid model. Boundary cond	Z KZ Z Z KZ and nervous systeman and his treatm KZ testing of materials tigue and lifetime p KZ d composites, atters selection charts. KZ nt and adaptation of application of the CA d application of the CA Z	2 2 2 2 2 2 2 3 3 3 5 5 5 6 7 7 8 7 8 8 8 8 8 9 8 9 8 9 9 9 9 9 9 9

21APL1	Aviation English 1 for Professional Pilot	Z	3
	ed on continuous reading specialized texts, vocabulary extension of technical English, terminology in the sphere of aircraft constructio engines, instruments and systems, analyzes relating to topics of air traffic, operational procedures, relevant legislation and operators		nt, aircraft
21APL2	Aviation English 2 for Professional Pilot	Z,ZK	3
	d on repetition and smoother communication within VFR and IFR communication, communication with technical staff at the airport, a	· · · · · · · · · · · · · · · · · · ·	
	airlines.		
21CON	Navigation Calculations	KZ	2
Projection of map	s; times - UTC, Zulu, LT; positioning; sunrise and sunset; distance calculation; projection; maps and symbols; declination; speed; wind	I components and	wind drift;
21EKL	VFR route selection; position plotting.  Air Transport Economy	Z,ZK	3
	purse is to introduce students to the basic issues of economics and then to follow up on more complex problems of air transport. Studi		
	and and supply in air transport and the specific problems related to these topics. At the same time, they will gain a comprehensive und		
	different types as well as airline revenues and yields.		
21HAV	Weight and Balance of Aircraft	Z,ZK	3
	ass and balance, basic aircraft masses, weighing and maximum aircraft masses, overloading, standard weights of passenger, baggag ad, flight documentation - loadsheet, trimsheet, load securing, determination of centre of gravity, influence of centre of gravity on the		
21KPSL	Communication and Surveillance Systems in Aviation	ZK	3
	uaints students with communication and surveillance systems both from the perspective of the air segment (aircraft systems) and from		
	infrastructure (ground systems), which together create the necessary prerequisites for ensuring safe, efficient and economical air t	ransport.	
21KSAV	KSA Assessment	Z,ZK	2
Communication.	Management of flight path. Automation of flight. Leadership and teamwork. Problem solving. Decision making. Situation awarness. We are a solvent to be a solvent of the sol	orkload manageme	ent. Upset
21LCLT	preventation and recovery training. Mental math.  Human Factors in Aviation	ZK	3
	aviation. Breathing, atmosphere. Heart and circulation. Radiation. Human sensory organs, nervous system. Vision, hearing, illusions.	I .	-
	wakefulness and sleep. Information processing, human error. Cockpit management. Behaviour and workload. Automation. Core com	petencies.	
21LCM	Aircraft Engines	Z,ZK	3
	gine, theoretical background, operational characteristics and construction schemes. Propellers, operational characterictics. Turbine en	_	-
	onstruction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational ch		
21LDA1 Aircraft structural a	Aircraft 1 Indiconceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and ca	Z,ZK	3 oft loadings
, moran on dotarar c	Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic	-	go.
21LEIS	Aerodromes	Z,ZK	3
	ns. Applicability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Man	-	
Markings. Signs. N	larkers. Visual aids for denoting obstacles. Obstacle restriction, removal. Visual aids for navigation, lights, approach lighting systems. V systems. Runway lights. Taxiway lights. Visual aids for denoting obstacles.	isual approach slop	be indicator
21LPTY	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
	ses for improvement of theoretical knowledge in a range of at least PPL(A) of the objects 010 - 090 in accordance with Part FCL. The	•	
exercises, solo fi	ights and navigation flights. This course is intended only for long-term student, who are in integrated pilots training and study all cours (Professional Pilot) in all three years.	es related to Study	/ field PIL
21LPX2	Flight Training 2	KZ	2
	es for improvement of theoretical knowledge in a range MEP land and IFR from the relevant subjects in accordance with Part FCL. The	· · · · · ·	_
dual exercises, er	nergency procedures, descents and navigation flights. This course is intended only for long-term student, who are in integrated pilots	training and study a	all courses
041 52/0	related to Study field PIL (Professional Pilot) in all three years.	1/7	
21LPX3	Flight Training 3  Deepening of theoretical knowledge and practical examination of progress in professional competence in pilot skills and knowledge.	KZ	2
21LPX4	Flight Training 4	KZ	2
ZILIXI	Deepening of theoretical knowledge and practical examination of progress in professional competence in pilot skills and knowledge		-
21LPX5	Flight Training 5	KZ	2
	Deepening of theoretical knowledge and practical examination of progress in professional competence in pilot skills and knowledge		
21LTA2	Aircraft 2	Z,ZK	2
Manufacturers res	consibility, responsibilities of operator and professional supervising. Legislation in area of airworthiness. International and national stan structures. Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presu		y of aircraft
21LTP1	Air Law 1	KZ	3
	pc 7300; ICAO Doc 7500 and 9626; International Organizations: ICAO, IATA, EASA, EUROCONTROL; airworthiness; ICAO Annexes;		_
	965/2012.		
21LTP2	Air Law 2	Z,ZK	3
	sed on the issue of commercial commercial air transport in accordance with applicable European legislation. Within the course, the issue	-	-
21LVPK	965/2012, regulation no. 1321/2014 and ICAO Annexes, which significantly affect the form, method and structure of commercial air tr  MCC - Multicrew Cooperation	7	ortation.
	INICC - MUILICIEW Cooperation sis in relation to human factor. MCC - basic principles, phases and methods within the area of air transport. CRM - leadership, situation	∠   al awareness. decis	_
g , zanzay andiye	process, communication, effect of stress to the multi-crew performance, standard operational procedures, automation.		9
21MET2	Meteorology 2	Z,ZK	5
Climatic zones,	tropical climatology, meteorological situation of mid-latitudes. Icing, turbulence, wind shear, thunderstorms, tornadoes, flying in the str	atosphere, mounta	in areas,
0414504	reducing visibility phenomena. Observation, weather maps, important information for flight planning.	173	
21MRG1	Meteorology 1 and vertical structure of the atmosphere. QNH, QFE, QFF, QNE, density and height measurements. Wind, moisture and adiabatic pro	KZ	nd types of
Composition, 3126	and vertical structure of the atmosphere. QNT, QTE, QTT, QNE, density and height measurements. While, moisture and adiabatic pro-	-	na types of

210BN	General Navigation	ZK	5
	de and longitude. Reference systems. Circles on the Earth and distance. Calculations. Time. Magnetism and sirections. Wind and Spe ation computer conversions, TAS, rates. Calculations: 1 in 60 and navigation computer track and GS. Projections. Charts. VFR naviga		•
odiodidilorio. ridvig	use. Navigation display. Navigation in remote and oceanic areas.	Mon. Hav Log prop	aration and
21PKL1	Advanced Flying 1	KZ	4
• •	ements Learning objectives laid down in Commission Regulation (EU) No 1178/2011. Instrument flying introduction, threat and error ures, enroute flight, holdings and arrivals, instrument approaches, performance based navigation, weather consideration, flight plann	•	
mstrument depart	briefings, phraseology differences, lost communication procedures, CFIT prevention, decompresion	ing and monitoring	g, enective
21PKL2	Advanced Flying 2	ZK	2
	es are based on requirements laid down in Commission Regulation (EU) No 1178/2011, subjects 081 and 100. Multi engine aircraft a	-	
energy manage	ment, stabilized approach and landing errors, jet - performance - engine out flight, jet - handling - engine out flight go around, UPRT, operations, operation manuals, MEL procedures and deviations, flight time limitation	voicanic asn, cold	weather
21PML	Flight Planning and Monitoring	Z,ZK	3
	Load of aircraft. Determination of centre of gravity - loadsheet, trimsheet. Aircraft weighing. Overloading of aircraft. Basic characteristic specific productions are considered as a constant of the contract of the contrac		
Take off and landing	g performance. Drift down. ETOPS. MEL. Flight planning and monitoring. Routing. FL and speeds selection. Charts. ICAO ATC FPL. A Fuel plan. Operational flight plan.	erodrom operation	minimums.
21PPY1	Operational Procedures 1	Z,ZK	3
	Annex 6, PART-OPS, Air operator, Aircraft operation, Operating procedures, Airplane equipment, Flight management, Airspa		
21PPY2	Operational Procedures 2	ZK	4
Flight document	ation and manuals, Icing and protection of the aircraft against icing, noise abatement procedures, Abnormal and emergency situation contamination	is and procedures,	Runway
21PRJ1	Instrumentation 1	ZK	2
	n principles of instrumentation, electronic displays, basics of measurement - sensitivity and errors, engine instrumentation (pressure		
quantity and fuel flo	ow measurement, torque and EPR measurement), indication in other aircraft systems (position, fire and icing indication, vibration mor monitoring, aerometric instruments (sensors, altimeter, air speed indicator, VSI, ADC).	nitoring, pressurisa	ition system
21PRJ2	Instrumentation 2	ZK	3
	pic instruments (turn indicator, attitude indicator, directional gyro), inertial instruments, recording and monitoring systems, warning sy		
04001/0	(autopilot, flight director, autothrust), FMS, flight envelope protection, communication systems, flight computers.	7 714	
21PRKP 1 mass and balan	Practical Flight Planning ce 2. fuel planning, PDP, RIF,RCF 3. ATC FPL 4. Preflight procedure and briefing-NOTAM + weather(METAR,SIGMET) 5. Jeppesen	Z,ZK charts 6 VFR fligh	4 of planning-
	th 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	Radionavigation  lder (VDF), ADF, VOR and Doppler VOR, DME, ILS, MLS, ground ATC radar, weather Radar, SSR and transponder. Radar utilization	Z,ZK	3
	(NAV) - general philosophy, gauges and equipment, indication and sensors for RNAV, VOR/DME (RNAV). Autopilot and flight director.	-	
	and backups.		
21SBP	Bachelor's Thesis Seminar	Z Z	1
WORK WITH ITHOR	mation sources. Citation, citation formats. The methodology of writing the thesis. Presentation of results. Formal requirements for these Requirements for journal articles. Publication ethics.	sis. Presentation of	i mesis.
21SIFR	IFR Communication	Z	2
	Abbreviations, Q-codes, Transport message categories, Transmission technique,, Transmission of letters, numbers, time and symbols		
21SVFR	hts, Radar procedural phraseology, Standard phraseology and Morse code, Practical IFR radiotelephony procedures in normal and e VFR Communication	emergency situation	ns. 4
	are based on PART FCL, part 090. It defines terms and abbreviations used in VFR communication. Phraseology and procedures in		
	situations.		
21TVFR	Theory for VFR Training	Z,ZK	8
	based on PPL(A) theory requirements according to Part-FCL. Lectures cover topics that are necessary to commence the practical part, airframe and powerplant, aircraft systems, instrumentation, mass and balance, performance, air law and ATC procedures, meteorol		
	navigation, radionavigation, VFR communication, flight planning and monitoring and human factor.		
21VL	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 landing performance, after take off and missed approach climb, noise abatement procedures, range of aircraft, drift down, MEL, E		take off and
21X31	Project 1	Z	2
21X32	Project 2	Z	2
21X33	Project 3	Z	2
21Y1BC	Aviation safety and security	KZ	2
21Y1BS	f safety and security development in aviation. Modern tools for safety and security management. Research and development of safe a  Unmanned aircraft systems 1	KZ	s. 2
	n Development. Aircraft design. Legislation in force in the Czech Republic. Planning and execution of the flight. Airspace division. Ope		
	procedures. Practical flights.		
21Y1MP	Matlab for project-oriented study	KZ	2
	bus is focused on the problem-solving during bachelor's thesis preparation and it is based on students' requests. Individual exercises les, based on actual students' needs and suggestions. The subject will have a flexible form, which is expected to bring an improveme		_
21Y1OH	Airline Business and Operations	KZ	2
The course provide:	s a comprehensive view of the commercial, operational and transportation activities of air transport companies. It focuses on the organiz	ational structure of	companies,
various aspects of t	heir strategy, economic and operational indicators. It introduces students in detail to operational processes and the essentials of transp a basic view of the economic aspects of air transport.	ortation processes	s. It provides
21Y1RZ	Human Resources Management	KZ	2
	numan resources in the organization and related disciplines file. Substance, importance and challenges of human resources manage		
environment of hum	nan resource management. Human resource planning. Search, recruitment and selection of employees. Motivation, evaluation and ren	nuneration of staff.	Positioning,
	dismissal and redundancies of employees. Education of employees. Planning career management.		

21ZKL1	Principles of Flight 1	ZK	3
Aerodynamic drag,	relation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and pr	essures around w	ing, 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	e, devices for
	lift and drag increase.		
21ZKL2	Principles of Flight 2	ZK	3
Static & dyna	amic longitudinal stability, neutral point, location of centre of gravity, static directional & lateral stability, dynamic directional &	; lateral stability, c	ontrol pitch
(longitudinal), ya	w (directional) & roll (lateral), roll/yaw interaction, trimming, speed of sound, Mach number, compressibility, shock waves, critical	Mach number, ae	rodynamic
	heating, operating limitations, manoeuvring envelope, gust-load diagram.		
22X31	Project 1	Z	2
22X32	Project 2	Z	2
22X33	Project 3	Z	2
23X31	Project 1	Z	2
		_	_
23X32	Project 2	Z	2

For updated information see <a href="http://bilakniha.cvut.cz/en/FF.html">http://bilakniha.cvut.cz/en/FF.html</a> Generated: day 2025-10-02, time 03:58.