#### Study plan

#### Name of study plan: Bachelor PIL (CS) Full-Time from 2024/25

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch:

Program of study: Professional Pilot Type of study: Bachelor full-time

Required credits: 180
Elective courses credits: 0
Sum of credits in the plan: 180

Note on the plan:

Name of the block: Compulsory courses Minimal number of credits of the block: 170

The role of the block: Z

Code of the group: 1S-BP-PIL-CS-23/24

Name of the group: 1st Sem. Bachelor Full-Time PIL (CS) from 2023/24 Requirement credits in the group: In this group you have to gain 30 credits

Requirement courses in the group: In this group you have to complete 7 courses

Credits in the group: 30 Note on the group:

situations.

i toto on the g	· •					
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
11CAL1	Calculus 1 Olga Vraštilová, Tomáš Tasák, Magdalena Hykšová, Bohumil Ková, Ond ej Navrátil Bohumil Ková Ond ej Navrátil (Gar.)	Z,ZK	7	2P+4C+22B	Z	Z
11LA	Linear Algebra Lucie Kárná, Pavel Provinský, Martina Be vá ová Martina Be vá ová (Gar.)  Be vá ová (Gar.)	Z,ZK	3	2P+1C+10B	Z	Z
210BN	General Navigation Radoslav Zozu ák Radoslav Zozu ák	ZK	5	4P+0C	Z	Z
21VFRC	VFR Communication Milan Kameník Milan Kameník	Z,ZK	4	2P+1C	Z	Z
21VFRT	Theory for VFR Training  Ladislav Capoušek Ladislav Capoušek	Z,ZK	6	4P+4C	Z	Z
11GIE	Geometry Pavel Provinský, Old ich Hykš, Šárka Vorá ová Old ich Hykš Old ich Hykš (Gar.)	KZ	3	2P+2C+12B	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

## Characteristics of the courses of this group of Study Plan: Code=1S-BP-PIL-CS-23/24 Name=1st Sem. Bachelor Full-Time PIL (CS) from 2023/24

11CAL1	Calculus 1	Z,ZK	7				
Sequence of real number	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, imprope						
Riemann integral. First-	order differential equations, linear differential equations.						
11LA	Linear Algebra	Z,ZK	3				
Vector spaces (linear co	mbinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and	their solvability. D	eterminants and				
their applications. Scala	r product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classification.						
210BN	General Navigation	ZK	5				
The Earth: latitude and	The Earth: latitude and longitude. Reference systems. Circles on the Earth and distance. Calculations. Time. Magnetism and sirections. Wind and Speed: Course, heading, track.						
Calculations: navigation	Calculations: navigation computer conversions, TAS, rates. Calculations: 1 in 60 and navigation computer track and GS. Projections. Charts. VFR navigation. Nav Log preparation and						
use. Navigation display. Navigation in remote and oceanic areas.							
21VFRC	VFR Communication	7.7K	4				

Course contents are based on PART FCL, part 090. It defines terms and abbreviations used in VFR communication. Phraseology and procedures in standard and non-standard

21VFRT Theory for VFR Training

Course content is based on PPL(A) theory requirements according to Part-FCL. Lectures cover topics that are necessary to commence the practical part of ATP(A) training, such as principles of flight, airframe and powerplant, aircraft systems, instrumentation, mass and balance, performance, air law and ATC procedures, meteorology, operational procedures, navigation, radionavigation, VFR communication, flight planning and monitoring and human factor.

11GIE

Geometry

KZ
3

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, the velocity, and acceleration of a particle moving on a curved path.

15JP1A Foreign Language - English for PIL 1
Improvement of language skills within spoken and written form of the language with the focus on aviation English. Practice of comprehension of authentic materials. Improvement of pronunciation and fluency of spoken language. Aviation phraseology in combination with general English. Revision and improvement of grammar structures, syntax and vocabulary. Topics related to air transport and occupation of pilot and air staff.

Code of the group: 2S-BP-PIL-CS-23/24

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

Name of the group: 2nd Sem. Bachelor Full-Time PIL (CS) from 2023/24 Requirement credits in the group: In this group you have to gain 30 credits

Requirement courses in the group: In this group you have to complete 10 courses

Credits in the group: 30

Note on the g	յւսսբ.					
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
11CAL2	Calculus 2 Olga Vraštilová, Tomáš Tasák, Magdalena Hykšová, Ond ej Navrátil, Old ich Hykš <b>Magdalena Hykšová</b> Ond ej Navrátil (Gar.)	Z,ZK	5	2P+3C+20E	L L	Z
11STAT	Statistics Pavel Provinský, Evženie Uglickich, Pavla Pecherková, Michal Matowicki, Natálie Blahitka, Ivan Nagy, Jana Kuklová Pavla Pecherková Evženie Uglickich (Gar.)	Z,ZK	4	2P+2C+12E	S L	Z
21HAV-E	Weight and Balance of Aircraft Ota Hajzler Denisa Svobodová Anna Polánecká (Gar.)	Z,ZK	3	2P+2C	L	Z
21LDA1	Aircraft 1 Karel Mündel Karel Mündel Vladimír Plos (Gar.)	Z,ZK	3	2P+1C	L	Z
21LEY1	Air Law 1 Radoslav Zozu ák Radoslav Zozu ák (Gar.)	ZK	3	3P+0C	L	Z
21ZYT1	Principles of Flight 1 P emysl Vávra, Jakub Trýb P emysl Vávra Vladimír Socha (Gar.)	Z,ZK	3	2P+1C	L	Z
15JP2A	Foreign Language - English for PIL 2 Marek Tome ek, Peter Morpuss, Lenka Monková, Marie Michlová, Eva Rezlerová, Markéta Musilová, Markéta Vojanová, Jitka He manová, Jan Feit,	KZ	3	0P+2C	L	Z
21CON-E	Navigation Calculations  Milan Kameník, Paul Rousseau Milan Kameník	KZ	2	0P+2C	L	Z
21LPX1	Flight Training 1 Iveta Kameníková, Jakub Hospodka	KZ	2	0P+1C	Z,L	Z
21LAP1	Aviation English for Professional Pilot 1  Lukáš Zibner, Filip Havrda Filip Havrda	Z	2	0P+2C	L	Z

## Characteristics of the courses of this group of Study Plan: Code=2S-BP-PIL-CS-23/24 Name=2nd Sem. Bachelor Full-Time PIL (CS) from 2023/24

110111 2023/24			
11CAL2	Calculus 2	Z,ZK	5
Linear differential e	quations and their systems, differential calculus of functions of several real variables. Riemann integral in Rn. Line and surface in	itegrals.	
11STAT	Statistics	Z,ZK	4
Basics of probability	Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Parar	netric tests Nonpar	rametric tests
Regression and co	relation analysis		
21HAV-E	Weight and Balance of Aircraft	Z,ZK	3
Basic terms of mass	and balance, basic aircraft masses, weighing and maximum aircrafts masses, overloading of aircraft, standard weights of passenge	r, baggage and crev	w, determination
of load of aircraft, fl	ght documentation - loadsheet, trimsheet, securing of load, determination of centre of gravity, influence of centre of gravity posit	ion on aircarft perfo	ormance.
21LDA1	Aircraft 1	Z,ZK	3
Aircraft structural a	d conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions ar	nd categorisation. A	Aircraft loadings
Systems of primary	and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topics.		
21LEY1	Air Law 1	ZK	3
Air Law; ICAO Doc	7300; ICAO Doc 7500 and 9626; International Organizations: ICAO, IATA, EASA, EUROCONTROL; airworthiness; ICAO Annexe	s; Commission rec	gulation (EU)
965/2012.			
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 an	d pressures around	d wing, angle o
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, indu	iced drag, interfere	nce, devices fo
lift and drag increas	e.		
15JP2A	Foreign Language - English for PIL 2	KZ	3
Improvement of lan	guage skills within spoken and written form of the language with the focus on aviation English. Practice of comprehension of aut	nentic materials. In	nprovement of

pronunciation and fluency of spoken language. Aviation phraseology in combination with general English. Revision and improvement of grammar structures, syntax and vocabulary.

21CON-E	Navigation Calculations	KZ	2
Projection of maps; time	s - UTC, Zulu, LT; positioning; sunrise and sunset; distance calculation; projection; maps and symbols; declination; speed; wi	nd components a	nd wind drift;
VFR route selection; po	sition plotting.		
21LPX1	Flight Training 1	KZ	2
Practical exercises for in	nprovement 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 co	ontrol, dual
exercises, solo flights a	nd navigation flights. This course is intended only for long-term student, who are in integrated pilots training and study all cou	rses related to St	udy field PIL
(Professional Pilot) in al	I three years.		
21LAP1	Aviation English for Professional Pilot 1	Z	2
Exercises focused on co	ontinuous reading specialized texts, vocabulary extension of technical English, terminology in the sphere of aircraft constructi	ion, principles of f	light, aircraft
engines, instruments ar	d systems, analyzes relating to topics of air traffic, operational procedures, relevant legislation and operators procedures.		

Code of the group: 3S-BP-PIL-CS-24/25

Name of the group: 3rd Sem. Bachelor Full-Time PIL (CS) from 2024/25 Requirement credits in the group: In this group you have to gain 30 credits

Requirement courses in the group: In this group you have to complete 9 courses

Credits in the group: 30 Note on the group:

ויוטופ טוו ווופ ל	group.					
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
11FYZ	Physics Old ich Hykš, Jana Kuklová, Pavel Demo, Zuzana Malá, Tomáš Vít Jana Kuklová Pavel Demo (Gar.)	Z,ZK	5	2P+2C+18E	Z	Z
21LAP2	Aviation English for Professional Pilot 2 Lukáš Zibner Lukáš Zibner	Z,ZK	3	0P+4C	Z	Z
21LDA2	Aircraft 2 Karel Mündel Karel Mündel	Z,ZK	4	2P+1C	Z	Z
21LPTY-E	Aircraft Operations  Ladislav Capoušek Ladislav Capoušek	ZK	2	2P+0C	Z	Z
21PUP1	Instrumentation 1 Pavel Hovorka	ZK	3	2P+0C	Z	Z
21RNV	Radionavigation Milan Kameník Milan Kameník	Z,ZK	4	3P+1C	Z	Z
21VL-E	Aircraft Performance Denisa Svobodová Denisa Svobodová	Z,ZK	4	2P+2C	Z	Z
21LPX2	Flight Training 2 Iveta Kameníková, Jakub Hospodka, Jakub Charezinski, Roman Matyáš Iveta Kameníková	KZ	2	0P+1C	L,Z	Z
15JZ3A	Foreign Language - English 3 Dana Boušová, Peter Morpuss, Lenka Monková, Marie Michlová, Eva Rezlerová, Markéta Musilová, Markéta Vojanová, Jitka He manová, Jan Feit	Z	3	0P+4C	Z	Z

## Characteristics of the courses of this group of Study Plan: Code=3S-BP-PIL-CS-24/25 Name=3rd Sem. Bachelor Full-Time PIL (CS) from 2024/25

from 2024/25			. ,
11FYZ	Physics	Z,ZK	5
Kinematics, dynamic	s, Newton's laws, force fields, mechanics of continuum, thermodynamics, introduction to electrostatics and electric current.	'	
21LAP2	Aviation English for Professional Pilot 2	Z,ZK	3
Exercises focused or	repetition and smoother communication within VFR and IFR communication, communication with technical staff at the airport	, a fluent conversa	tion within the
airlines.			
21LDA2	Aircraft 2	Z,ZK	4
Manufacturers respo	nsibility, responsibilities of operator and professional supervising. Legislation in area of airworthiness. International and national	standards. Static s	solidity of aircraft
structures. Aeroelast	icity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presumption.		
21LPTY-E	Aircraft Operations	ZK	2
Aircraft oepration for	cruise, approach, final approach, missed approach, hodling, PBN, augmented GNSS, aviation charts for IFR flight		
21PUP1	Instrumentation 1	ZK	3
Basic construction p	inciples of instrumentation, electronic displays, basics of measurement - sensitivity and errors, engine instrumentation (pressu	re gauges, thermo	meters, fuel
quantity and fuel flov	measurement, torque and EPR measurement), indication in other aircraft systems (position, fire and icing indication, vibration	monitoring, press	urisation system
monitoring, aeromet	ic instruments (sensors, altimeter, air speed indicator, VSI, ADC).		
21RNV	Radionavigation	Z,ZK	4
Ground direction find	ler (VDF), ADF, VOR and Doppler VOR, DME, ILS, MLS, ground ATC radar, weather Radar, SSR and transponder. Radar utiliza	tion for navigation	during the flight.
,	AV) - general philosophy, gauges and equipment, indication and sensors for RNAV, VOR/DME (RNAV). Autopilot and flight direc	ctor. Satellite navig	ation, systems
and backups.			
21VL-E	Aircraft Performance	Z,ZK	4
Basic terms of aircra	ft performance, basic characteristic speeds, runway characteristics, single and multiengine aircraft performance class B, aircraft	t performance clas	s A, take off and
landing performance	, after take off and missed approach climb, noise abatement procedures, range of aircraft, drift down, MEL, ETOPS.		
21LPX2	Flight Training 2	KZ	2
Practical exercises for	or improvement of theoretical knowledge in a range MEP land and IFR from the relevant subjects in accordance with Part FCL.	The basics of instr	ument flying,
	gency procedures, descents and navigation flights. This course is intended only for long-term student, who are in integrated pile	ots training and stu	udy all courses
related to Study field	PIL (Professional Pilot) in all three years.		

15JZ3A Foreign Language - English 3

Grammar structure and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Faculty's fields of study pilot. Focus on

improvement in perceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral and written form. Technical texts and their features; terminology.

Code of the group: 4S-BP-PIL-CS-24/25

Name of the group: 4th Sem. Bachelor Full-Time PIL (CS) from 2024/25 Requirement credits in the group: In this group you have to gain 28 credits

Requirement courses in the group: In this group you have to complete 10 courses

Credits in the group: 28 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
11EMO	Electromagnetic Field and Optics Old ich Hykš, Jana Kuklová, Zuzana Malá, Tomáš Vít Zuzana Malá Zuzana Malá (Gar.)	Z,ZK	4	2P+1C	L	Z
21AFL1-E	Advanced Flying 1 Viktor Valenta Viktor Valenta	Z,ZK	3	2P+1C	L	Z
21MEE1	Meteorology 1 Iveta Kameniková Iveta Kameniková	Z,ZK	3	2P+2C	L	Z
21PML-E	Flight Planning and Monitoring  Anna Polánecká Anna Polánecká	Z,ZK	3	2P+2C	L	Z
21PRJ2	Instrumentation 2 Pavel Hovorka Pavel Hovorka	ZK	3	2P+0C	L,Z	Z
14AP	Algorithm and Programming Vít Fábera, Michal Je ábek Michal Je ábek Vít Fábera (Gar.)	KZ	4	2P+2C	L	Z
21IFRC	IFR Communication Milan Kameník Milan Kameník	KZ	2	1P+1C	L	Z
21LPX3	Flight Training 3 Iveta Kameníková, Jakub Hospodka	KZ	2	0P+1C	L	Z
21SBU1	Bachelor Thesis Seminar 1 Lenka Hanáková <b>Lenka Hanáková</b> Lenka Hanáková (Gar.)	Z	1	1P+0C	L	Z
15JZ4A	Foreign Language - English 4 Peter Morpuss, Lenka Monková, Marie Michlová, Eva Rezlerová, Markéta Musilová, Markéta Vojanová, Jitka He manová, Jan Feit, Barbora Horá ková	Z,ZK	3	0P+4C	L	Z

## Characteristics of the courses of this group of Study Plan: Code=4S-BP-PIL-CS-24/25 Name=4th Sem. Bachelor Full-Time PIL (CS)

11EMO	Electromagnetic Field and Optics	Z,ZK	4
Electric field. Elect	tric current. Magnetic field. Electromagnetic field. Optics. Basics of solid-state physics.	1	
21AFL1-E	Advanced Flying 1	Z,ZK	3
his course supple	ements Learning objectives laid down in Commission Regulation (EU) No 1178/2011. Instrument flying introduction,	threat and error management, pro	ocedures for
nstrument departi	ures, enroute flight, holdings and arrivals, instrument approaches, performance based navigation, weather considera	ation, flight planning and monitorin	ng, effective
riefings, phraseol	logy differences, lost communication procedures, CFIT prevention, decompresion		
21MEE1	Meteorology 1	Z,ZK	3
omposition, size	and vertical structure of the atmosphere. QNH, QFE, QFF, QNE, density and height measurements. Wind, moisture	and adiabatic processes. Creatin	g and types
loud, fog, haze. P	Precipitation. Types of air masses, atmospheric fronts. Distribution of pressure, cyclones, anticyclones, non-frontal cyclones.	clone.	
21PML-E	Flight Planning and Monitoring	Z,ZK	3
light planning for	VFR flights for small, single- and multi-engine aeroplanes	· .	
1PRJ2	Instrumentation 2	ZK	3
ompass, gyrosco	ppic instruments (turn indicator, attitude indicator, directional gyro), inertial instruments, recording and monitoring sys	stems, warning systems (TCAS, C	SPWS), AFC
autopilot, flight dir	rector, autothrust), FMS, flight envelope protection, communication systems, flight computers.		
I4AP	Algorithm and Programming	KZ	4
Computers, data r	epresentation, algorithms (conditions, loops), high level programming languages, introduction to Python language, li	sts, searching and sorting algorith	nms, abstrac
ata types (set, tu	pple, dictionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, worki	ing with files, instroduction into ob	ject oriente
orogramming			
21IFRC	IFR Communication	KZ	2
Definitions, Terms,	, Abbreviations, Q-codes, Transport message categories, Transmission technique,, Transmission of letters, numbers,	time and symbols, Standard word	s and phras
or IFR flights, Rac	dar procedural phraseology, Standard phraseology and Morse code, Practical IFR radiotelephony procedures in norr	mal and emergency situations.	
1LPX3	Flight Training 3	KZ	2
eepening of theo	pretical knowledge and practical examination of progress in professional competence in pilot skills and knowledge	·	
21SBU1	Bachelor Thesis Seminar 1	Z	1
ypes of thesis (re	view, applied research, basic research, thesis dealing with design proposals). Working with citation sources (citation	sources, citation databases, citati	on styles, h
o cite). Analyzing	the state of the art (standards of research writing). Defining the limitations of the state of the art. Introduction to the	thesis methodology.	
5JZ4A	Foreign Language - English 4	Z,ZK	3
Frammar structure	e and stylistics. Conversational and specialised topics selected according to the language group level and with regar	d to the Faculty's fields of study -	pilot. Focus
nprovement in pe	erceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own finding	ngs in both oral and written form.	Technical te
and their features.	As marked by a larger		

Code of the group: 5S-BP-PIL-CS-23/24

Name of the group: 5th Sem. Bachelor Full-Time PIL (CS) from 2023/24 Requirement credits in the group: In this group you have to gain 26 credits

Requirement courses in the group: In this group you have to complete 9 courses

Credits in the group: 26 Note on the group:

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
21LTP2	Air Law 2 Radoslav Zozu ák Radoslav Zozu ák	Z,ZK	3	3P+0C	Z	Z
21MET2	Meteorology 2 Iveta Kameníková Iveta Kameníková	Z,ZK	5	2P+2C	L,Z	Z
21PKL2	Advanced Flying 2 Viktor Valenta Viktor Valenta	ZK	2	2P+0C	Z	Z
21PPY1	Operational Procedures 1 Ladislav Capoušek Ladislav Capoušek	Z,ZK	3	2P+1C	Z	Z
21PRKP	Practical Flight Planning Anna Polánecká, Jakub Hospodka Jakub Hospodka	Z,ZK	4	2P+2C	Z	Z
21ZKL2	Principles of Flight 2 P emysi Vávra, Jakub Trýb Jakub Trýb	ZK	3	2P+1C	Z	Z
21LPX4	Flight Training 4 Iveta Kameníková, Jakub Hospodka, Jakub Charezinski, Roman Matyáš Iveta Kameníková	KZ	2	0P+1C	Z	Z
21SBP	Bachelor's Thesis Seminar Vladimír Socha, Lenka Hanáková, Marta Urbanová Marta Urbanová	Z	1	0P+1C	Z	Z
15JZ3A	Foreign Language - English 3  Dana Boušová, Peter Morpuss, Lenka Monková, Marie Michlová, Eva Rezlerová, Markéta Musilová, Markéta Vojanová, Jitka He manová, Jan Feit	Z	3	0P+4C	Z	Z

# Characteristics of the courses of this group of Study Plan: Code=5S-BP-PIL-CS-23/24 Name=5th Sem. Bachelor Full-Time PIL (CS) from 2023/24

5JZ3A Foreig	n Language - English 3	Z	3
Grammar structure and stylistics	. Conversational and specialised topics selected according to the language group level and with regard to the f	aculty's fields of study	pilot. Focus o
mprovement in perceptive and c	ommunicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in bo	th oral and written form.	Technical tex
nd their features; terminology.			
21LTP2 Air La	w 2	Z,ZK	3
he course is focused on the issu	e of commercial commercial air transport in accordance with applicable European legislation. Within the course,	the issue of EC regulati	ons is analyz
n detail File no. 965/2012, regula	ation no. 1321/2014 and ICAO Annexes, which significantly affect the form, method and structure of commercia	d air transport and trans	portation.
21MET2 Meteo	rology 2	Z,ZK	5
	gy, meteorological situation of mid-latitudes. Icing, turbulence, wind shear, thunderstorms, tornadoes, flying in	the stratosphere, mount	tain areas,
educing visibility phenomena. O	bservation, weather maps, important information for flight planning.		
21PKL2 Advan	ced Flying 2	ZK	2
earning objectives are based or	n requirements laid down in Commission Regulation (EU) No 1178/2011, subjects 081 and 100. Multi engine a	ircraft and jet aircraft ch	aracteristics,
nergy management, stabilized a	approach and landing errors, jet - performance - engine out flight, jet - handling - engine out flight go around, U	PRT, volcanic ash, cold	weather
perations, operation manuals, N	MEL procedures and deviations, flight time limitation		
21PPY1 Opera	tional Procedures 1	Z,ZK	3
nnex 6, PART-OPS, Air operato	r, Aircraft operation, Operating procedures, Airplane equipment, Flight management, Airspace	' '	
1PRKP Praction	cal Flight Planning	Z,ZK	4
. mass and balance 2. fuel plan	ning, PDP, RIF,RCF 3. ATC FPL 4. Preflight procedure and briefing-NOTAM + weather(METAR,SIGMET) 5. Je	ppesen charts 6. VFR fl	light planninç
neory 7. VFR flight planning- IC/	AO mapa, softwary 8. IFR flight planning- theory 9. PBN- RNAV, RNP 10. IFR flight planning- softwary 11. MRJ	T- OFP 12. ETOPS a N	AT HLA 13.
PET, PSR, PNR 14. practical VFI	R a IFR flight planning		
21ZKL2 Princi	oles of Flight 2	ZK	3
Static & dynamic longitudina	al stability, neutral point, location of centre of gravity, static directional & mp; lateral stability, dynamic directional	ıl & lateral stability,	control pitch
ongitudinal), yaw (directional) &	amp; roll (lateral), roll/yaw interaction, trimming, speed of sound, Mach number, compressibility, shock waves,	critical Mach number, a	erodynamic
eating, operating limitations, ma	noeuvring envelope, gust-load diagram.		
21LPX4 Flight	Training 4	KZ	2
Deepening of theoretical knowled	dge and practical examination of progress in professional competence in pilot skills and knowledge	' '	
1SBP Bache	lor's Thesis Seminar	Z	1
Vork with information sources. C	itation, citation formats. The methodology of writing the thesis. Presentation of results. Formal requirements fo	r thesis. Presentation of	thesis.

Code of the group: 6S-BP-PIL-CS-23/24

Name of the group: 6th Sem. Bachelor Full-Time PIL (CS) from 2023/24 Requirement credits in the group: In this group you have to gain 26 credits

Requirement courses in the group: In this group you have to complete 9 courses

Credits in the group: 26 Note on the group:

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
21KPSL	Communication and Surveillance Systems in Aviation Stanislav Pleninger Stanislav Pleninger	ZK	3	2P+0C	L	Z
21KSAV	KSA Assessment Radoslav Zozu ák Radoslav Zozu ák	Z,ZK	2	0P+2C	L	Z
21LCM	Aircraft Engines Tomáš Parýzek, Daniel Hanus, Vladimír Machula Daniel Hanus	Z,ZK	3	2P+1C	Z,L	Z
21LEIS	Aerodromes Ladislav Capoušek, Petr Líka , Slobodan Stoji Ladislav Capoušek Slobodan Stoji (Gar.)	Z,ZK	3	2P+1C	L	Z
21PPY2	Operational Procedures 2  Ladislav Capoušek Ladislav Capoušek	ZK	4	3P+0C	L	Z
14AP	Algorithm and Programming Vít Fábera, Michal Je ábek Michal Je ábek Vít Fábera (Gar.)	KZ	4	2P+2C	L	Z
21LPX5	Flight Training 5 Iveta Kameníková, Jakub Hospodka	KZ	2	0P+1C	L	Z
21LVPK	MCC - Multicrew Cooperation Vladislav Pružina	Z	2	2P+1C	L	Z
15JZ4A	Foreign Language - English 4 Peter Morpuss, Lenka Monková, Marie Michlová, Eva Rezlerová, Markéta Musilová, Markéta Vojanová, Jitka He manová, Jan Feit, Barbora Horá ková	Z,ZK	3	0P+4C	L	Z

# Characteristics of the courses of this group of Study Plan: Code=6S-BP-PIL-CS-23/24 Name=6th Sem. Bachelor Full-Time PIL (CS) from 2023/24

	Algorithm and Programming	KZ	4
Computers, data re	presentation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, searching	and sorting algor	rithms, abstract
data types (set, tup	ole, dictionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, i	instroduction into	object oriented
programming			
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 Facul	ty's fields of study	- pilot. Focus o
mprovement in per-	ceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both ora	al and written form	n. Technical text
and their features; t	erminology.		
21KPSL	Communication and Surveillance Systems in Aviation	ZK	3
The course acquair	its students with communication and surveillance systems both from the perspective of the air segment (aircraft systems) and fro	om the perspective	e of ground
nfrastructure (groun	nd systems), which together create the necessary prerequisites for ensuring safe, efficient and economical air transport.		
21KSAV	KSA Assessment	Z,ZK	2
Communication. Ma	nagement of flight path. Automation of flight. Leadership and teamwork. Problem solving. Decision making. Situation awarness. \	Workload manage	ment. Upset
preventation and re	covery training. Mental math.		
21LCM	Aircraft Engines	Z,ZK	3
Aircratt piston engir	e, theoretical background, operational characteristics and construction schemes. Propellers, operational characterictics. Turbine	engine, theoretica	al background,
	ie, theoretical background, operational characteristics and construction schemes. Propellers, operational characterictics. Turbine struction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational	•	•
		•	•
thermal cycles, con	struction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational	characteristics. Er	ngine control.
thermal cycles, con 21LEIS Basic definitions. Ap	struction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational Aerodromes	characteristics. Er Z,ZK rkings of movement	ngine control.  3 nt areas.
thermal cycles, con 21LEIS Basic definitions. Ap Markings. Signs. Ma	struction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational  Aerodromes  pplicability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mar	characteristics. Er Z,ZK rkings of movement	ngine control.  3 nt areas.
thermal cycles, con 21LEIS Basic definitions. Ap Markings. Signs. Ma systems. Runway lig	struction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational  Aerodromes  pplicability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mararkers. Visual aids for denoting obstacles. Obstacle restriction, removal. Visual aids for navigation, lights, approach lighting system	characteristics. Er Z,ZK rkings of movement	ngine control.  3 nt areas.
thermal cycles, con 21LEIS Basic definitions. Ap Markings. Signs. Ma systems. Runway lig 21PPY2	struction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational Aerodromes  Aerodromes  Aerodromes  Applicability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mararkers. Visual aids for denoting obstacles. Obstacle restriction, removal. Visual aids for navigation, lights, approach lighting system optis. Taxiway lights. Visual aids for denoting obstacles.	characteristics. Er Z,ZK rkings of movements. Visual approac	ngine control.  3 nt areas. th slope indicate
thermal cycles, con 21LEIS Basic definitions. Ap Markings. Signs. Ma systems. Runway lig 21PPY2	struction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational Aerodromes pplicability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mararkers. Visual aids for denoting obstacles. Obstacle restriction, removal. Visual aids for navigation, lights, approach lighting system ophts. Taxiway lights. Visual aids for denoting obstacles.  Operational Procedures 2	characteristics. Er Z,ZK rkings of movements. Visual approac	ngine control.  3 nt areas. th slope indicate
thermal cycles, con 21LEIS Basic definitions. Ap Markings. Signs. Ma systems. Runway lig 21PPY2 Flight documentation	struction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational Aerodromes pplicability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mararkers. Visual aids for denoting obstacles. Obstacle restriction, removal. Visual aids for navigation, lights, approach lighting system ophts. Taxiway lights. Visual aids for denoting obstacles.  Operational Procedures 2	characteristics. Er Z,ZK rkings of movements. Visual approac	ngine control.  3 nt areas. th slope indicate
thermal cycles, con 21LEIS Basic definitions. Ap Markings. Signs. Ma systems. Runway lig 21PPY2 Flight documentation 21LPX5	Aerodromes  Alpha Aerodromes  Alpha Aerodromes  Arkers. Visual aids for denoting obstacles. Obstacle restriction, removal. Visual aids for navigation, lights, approach lighting system ophts. Taxiway lights. Visual aids for denoting obstacles.  Operational Procedures 2  In and manuals, Icing and protection of the aircraft against icing, noise abatement procedures, Abnormal and emergency situation.	characteristics. Er Z,ZK rkings of movements. Visual approact ZK ons and procedure	ngine control.  3 Int areas. Int slope indicate 4 Interpretation
thermal cycles, con 21LEIS Basic definitions. Ap Markings. Signs. Ma systems. Runway lig 21PPY2 Flight documentation contamination 21LPX5 Deepening of theore	Aerodromes  Alpha Aerodromes  Aerodromes  Aerodromes  Applicability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mararkers. Visual aids for denoting obstacles. Obstacle restriction, removal. Visual aids for navigation, lights, approach lighting system of the companients. Taxiway lights. Visual aids for denoting obstacles.  Operational Procedures 2  In and manuals, Icing and protection of the aircraft against icing, noise abatement procedures, Abnormal and emergency situation  Flight Training 5  Etical knowledge and practical examination of progress in professional competence in pilot skills and knowledge	characteristics. Er Z,ZK rkings of movements. Visual approact ZK ons and procedure	ngine control.  3 Int areas. Int slope indicate 4 Interpretation
thermal cycles, con 21LEIS Basic definitions. Ap Markings. Signs. Ma systems. Runway lig 21PPY2 Flight documentation contamination 21LPX5 Deepening of theore 21LVPK	Aerodromes  Alpha Aerodromes  Aerodromes	characteristics. En Z,ZK rkings of movements. Visual approach ZK ons and procedure KZ	ngine control.  3 Int areas. Int slope indicate 4 Pes, Runway  2

Name of the block: Semestrální projekt Minimal number of credits of the block: 6

The role of the block: ZP

Code of the group: X1-BP-PIL-CS-22/23

Name of the group: Research Groups Bachelor Full-Time PIL (CS) from 2022/23

Requirement credits in the group: In this group you have to gain 6 credits

Requirement courses in the group: In this group you have to complete 3 courses

Credits in the group: 6 Note on the group:

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
11X31	Project 1 Michal Matowicki Michal Matowicki	Z	2	0P+1C	L	ZP
12X31	Project 1 Dagmar Ko árková, Martin Höfler	Z	2	0P+1C	L	ZP
14X31	Project 1	Z	2	0P+1C	L	ZP
15X31	Project 1	Z	2	0P+1C	L	ZP
16X31	Project 1	Z	2	0P+1C	L	ZP
17X31	Project 1 Roman Št rba, Milan K íž, Václav Baroch, Daniel Pilát, Michal Drábek, Alexandra Dvo á ková, Veronika Faifrová, Petr Fridrišek, Rudolf Franz Heidu, Václav Baroch (Gar.)	Z	2	0P+1C	L	ZP
18X31	Project 1	Z	2	0P+1C	L	ZP
20X31	Project 1	Z	2	0P+1C	L	ZP
21X31	Project 1  Jakub Hospodka, Lenka Hanáková, Stanislav Pleninger, Slobodan Stoji , Jakub Kraus, Andrej Lališ, Terézia Pilmannová, Peter Vittek, Natalia Guskova,	Z	2	0P+1C	L	ZP
22X31	Project 1	Z	2	0P+1C	L	ZP
23X31	Project 1	Z	2	0P+1C	L	ZP
11X32	Project 2	Z	2	0P+2C	Z	ZP
12X32	Project 2	Z	2	0P+2C	Z	ZP
14X32	Project 2 Jana Kaliková, Jan Kr ál	Z	2	0P+2C	Z	ZP
15X32	Project 2	Z	2	0P+2C	Z	ZP
16X32	Project 2 Petr Bouchner, Tereza Kunclová	Z	2	0P+2C	Z	ZP
17X32	Project 2 Milan K íž, Václav Baroch, Daniel Pilát, Michal Drábek, Alexandra Dvo á ková, Veronika Faifrová, Rudolf Franz Heidu, Tomáš Horák, Vít Janoš,	Z	2	0P+2C	Z	ZP
18X32	Project 2	Z	2	0P+2C	Z	ZP
20X32	Project 2 Vladimir Faltus	Z	2	0P+2C	Z	ZP
21X32	Project 2 Radoslav Zozu ák, Vladimír Socha, Iveta Kameníková, Jakub Hospodka, Viktor Valenta, Lenka Hanáková, Stanislav Pleninger, Slobodan Stoji , Jakub Kraus,	Z	2	0P+2C	Z	ZP
22X32	Project 2	Z	2	0P+2C	Z	ZP
23X32	Project 2	Z	2	0P+2C	Z	ZP
11X33	Project 3	Z	2	0P+1C	L	ZP
12X33	Project 3 Dagmar Ko árková, Martin Höfler, Josef Kocourek, Tomáš Pad lek	Z	2	0P+1C	L	ZP
14X33	Project 3 Jana Kaliková, Jan Kr ál	Z	2	0P+1C	L	ZP
15X33	Project 3	Z	2	0P+1C	L	ZP
16X33	Project 3 Petr Bouchner, Dmitrij Rožd stvenský	Z	2	0P+1C	L	ZP
17X33	Project 3 Roman Št rba, Milan K íž, Václav Baroch, Daniel Pilát, Michal Drábek, Alexandra Dvo á ková, Veronika Faifrová, Petr Fridrišek, Rudolf Franz Heidu, Václav Baroch (Gar.)	Z	2	0P+1C	L	ZP
18X33	Project 3 Tomás Fíla	Z	2	0P+1C	L	ZP
20X33	Project 3	Z	2	0P+1C	L	ZP
21X33	Project 3 Milan Kameník, Iveta Kameníková, Viktor Valenta, Lenka Hanáková, Stanislav Pleninger, Slobodan Stoji , Andrej Lališ, Terézia Pilmannová, Natalia Guskova,	Z	2	0P+1C	L	ZP
22X33	Project 3	Z	2	0P+1C	L	ZP
23X33	Project 3	Z	2	0P+1C	L	ZP
	<u> </u>	L		1		

# Characteristics of the courses of this group of Study Plan: Code=X1-BP-PIL-CS-22/23 Name=Research Groups Bachelor Full-Time PIL (CS) from 2022/23

11X31	Project 1	Z	2
12X31	Project 1	Z	2
14X31	Project 1	Z	2
15X31	Project 1	Z	2
16X31	Project 1	Z	2

17X31	Project 1	Z	2
18X31	Project 1	Z	2
20X31	Project 1	Z	2
21X31	Project 1	Z	2
22X31	Project 1	Z	2
23X31	Project 1	Z	2
11X32	Project 2	Z	2
12X32	Project 2	Z	2
14X32	Project 2	Z	2
15X32	Project 2	Z	2
16X32	Project 2	Z	2
17X32	Project 2	Z	2
18X32	Project 2	Z	2
20X32	Project 2	Z	2
21X32	Project 2	Z	2
22X32	Project 2	Z	2
23X32	Project 2	Z	2
11X33	Project 3	Z	2
12X33	Project 3	Z	2
14X33	Project 3	Z	2
15X33	Project 3	Z	2
16X33	Project 3	Z	2
17X33	Project 3	Z	2
18X33	Project 3	Z	2
20X33	Project 3	Z	2
21X33	Project 3	Z	2
22X33	Project 3	Z	2
23X33	Project 3	Z	2

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 4

The role of the block: PV

Code of the group: Y1-BP-PIL-CS-24/25

Name of the group: Comp. Sel. Courses Bachelor Full-Time PIL (CS) from 2024/25

Requirement credits in the group: In this group you have to gain 4 credits

Requirement courses in the group: In this group you have to complete 2 courses

Credits in the group: 4

NOTE OIL THE	9,046.					
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
15Y1EH	European Integration within Historical Context  Jan Feit	KZ	2	2P+0C	Z	PV
15Y1HE	Work Hygiene and Ergonomics in Traffic Petr Musil	KZ	2	2P+0C	Z	PV
15Y1ZV	East-West dichotomy: Prelude to the Cold War  Marie Michlová	KZ	2	2P+0C	Z	PV
18Y1AM	Anatomy, Mobility and Safety of Man	KZ	2	2P+0C	Z	PV
18Y1EM	Experimental Methods in Mechanics Daniel Kytý Daniel Kytý Daniel Kytý (Gar.)	KZ	2	2P+0C	Z	PV
21Y1MP	Matlab for project-oriented study Vladimír Socha, Lenka Hanáková Vladimír Socha	KZ	2	2P+0C	Z	PV
21Y1OH	Airline Business and Operations Eva Endrizalová, Peter Olexa Peter Olexa	KZ	2	2P+0C	Z	PV
15Y1BO	Work Safety and Health Protection in Transportation Petr Musil	KZ	2	2P+0C	L	PV
15Y1HL	History of Civil Aviation Vladimír Plos	KZ	2	2P+0C	L	PV
17Y1LL	Logistics of Passenger and Freight Air Transport Petra Skolilová Petra Skolilová (Gar.)	KZ	2	2P+0C	L	PV
18Y1MT	Engineering Materials  Jaroslav Valach Jaroslav Valach (Gar.)	KZ	2	2P+0C	L	PV
18Y1PD	Computer Simulations in Transportation	KZ	2	2P+0C	L	PV

18Y1PS	Computer Simulations in Mechanics Petr Zlámal Petr Zlámal (Gar.)	KZ	2	2P+0C	L	PV
21Y1BC	Aviation safety and security Andrej Lališ, Natalia Guskova, Kate ina Grötschelová Andrej Lališ	KZ	2	2P+0C	L	PV
21Y1BS	Unmanned aircraft systems 1 Jakub Kraus, Michal erný, Tomáš Tlu ho	KZ	2	2P+0C	L	PV
21Y1RZ	Human Resources Management	KZ	2	2P+0C	L	PV
00Y1XB	Active participation in a scientific project, workshop, short-term trip abroad Patrik Horaž ovský Patrik Horaž ovský (Gar.)	KZ	2	2P+0C		PV
haracteristics of the IL (CS) from 2024/2	e courses of this group of Study Plan: Code=Y1-BP-PIL-CS-24/2	25 Name=Co	mp. Sel.	Courses	Bachelo	r Full-Tim
	ropean Integration within Historical Context				KZ	2
· · · · · · · · · · · · · · · · · · ·	of new states. Europe and the powers, League of Nations. European policy in the 192 getting to power, system of bilateral agreements. Decline of the LN. Rearrangement of p				-	
	nan relationship - a driving power of starting European integration.	bowers during wv	vii. Colu wa	ii and its con	sequences	ioi Luiope.
	ork Hygiene and Ergonomics in Traffic				KZ	2
	tional hygiene and ergonomics, and their application in transport. Working environment	factors, and the i	nfluence of	these factors	on health	of workers.
Creation and protection of w	orking conditions that do not damage public health. Mutual links: man-machine-enviror	nment. Adaptation	of technolo	ogy to possib	ilities and s	kills of a man
ractical examples from the	field of transportation; relevant legislature.					
15Y1ZV Ea	st-West dichotomy: Prelude to the Cold War				KZ	2
. •	n of the "West" and "East" from the 1500s. Focus on the history in the period between 18			•		
	nd the beginning of the 20th century. Revolutions, the causes and consequences. Scien	ntific and technologic	ogical progr	ess, the caus	ses and con	sequences.
	ory. Social changes. Discussions on texts, sources.				/7	
	natomy, Mobility and Safety of Man	trusture of mountain	aa Dlaad sir	<b>I</b>	KZ	2
	al structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical s ılar-skeletal system. Injury of human organs and musculo-skeletal system during traffic					
	means and traffic safety regulations.	accidents. Mobili	ty of ill ariu	njuleu man	and ms nea	unent. Hume
	perimental Methods in Mechanics				KZ	2
-	perimental mechanics. Sensors for mechanical testing. Overview of experimental method	ods. Destructive a	nd non-des	1		_
	d sample preparation. Tensile and bending tests. Electrical resistance strain gages. Op				•	•
nstrumented hardness testi	ing. Introduction to electron microscopy. Errors in measurement.					
1Y1MP Ma	atlab for project-oriented study				KZ	2
	used on the problem-solving during bachelor's thesis preparation and it is based on stu					_
<u> </u>	on actual students' needs and suggestions. The subject will have a flexible form, which	is expected to br	ing an impr			
ı	rline Business and Operations			1	KZ	. 2
	rehensive view of the commercial, operational and transportation activities of air transpor egy, economic and operational indicators. It introduces students in detail to operational p	· · · · · · · · · · · · · · · · · · ·		-		-
basic view of the economi		nocesses and the	Coscillais	or transporta	mon proces	ses. It provide
	ork Safety and Health Protection in Transportation				KZ	2
l l	finition of terms, risks and possible health damage, working conditions and health prote	ection with focus	on transport	1	I	
-	nd foreign business trips, statistics, working practice.		•			
5Y1HL Hi	story of Civil Aviation				KZ	2
eginnings of flying, develop	pment of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak	aviation pioneer	s. Developn	ent of airpor	ts in the Cz	ech Republic
•	tors. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between	the years 1945-1	989. Classic	era of aviati	on. Golden	era of civil
	aviation. Airline companies. Supersonic flying.					
	gistics of Passenger and Freight Air Transport				KZ	2
	and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in t	erms of logistics	systems. Ae	riai transpor	t process pa	assengers an
	ns in air transport. Global distribution systems.				KZ	2
į.	ngineering Materials n classes of materials used in technical design. In addition to main classes of materials	i e metals cera	mics nolve			
•	o biomimetics. Integral approach to material selection process is also demonstrated ba				•	ortion is paid
	omputer Simulations in Transportation		,		KZ	2
1	pols for stress analysis of structures. Numerical methods in mechanics, finite element r	nethod. Geometri	c model de		1	
•	ssignment of material properties. The types of elements and their use. Discretization of			-	-	-
asks of structural and moda	al analysis. Introduction to complex nonlinear problems.					
18Y1PS Co	omputer Simulations in Mechanics				KZ	2
om other CAE systems. As	ools for stress analysis of structures. Numerical methods in mechanics, finite element resignment of material properties. The types of elements and their use. Discretization of			-	-	-
	al analysis. Introduction to complex nonlinear problems.			1 .	/7	
	riation safety and security	and dayal	nt of ant-	1	KZ	2
	ry development in aviation. Modern tools for safety and security management. Research	and developme	nt of safe ar			
l l	nmanned aircraft systems 1	on of the flight 1:	rengoo divis	1	KZ	2 nd operations
•	oment. Aircraft design. Legislation in force in the Czech Republic. Planning and execution	ט ווע ille ilight. Al	ispace divis	ion. Operatio	niai IISKS dī	iu operationa
					<b>Κ</b> 7	<u> </u>
1Y1RZ Hu	ıman Resources Management	nges of human re	sources ma		KZ	2 external
he position of human resor		_		nagement. I	nternal and	external

ΚZ

2

Active participation in a scientific project, workshop, short-term trip abroad

 $\ dismissal\ and\ redundancies\ of\ employees.\ Education\ of\ employees.\ Planning\ career\ management.$ 

00Y1XB

Name of the block: Elective courses Minimal number of credits of the block: 0

The role of the block: V

Code of the group: VP-BP-PIL-CS

Name of the group: Bachelor Full-Time PIL (CS) voluntary

Requirement credits in the group: Requirement courses in the group:

Credits in the group: 0 Note on the group:

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
11SEMO	Seminar of Electromagnetic Field and Optics Old ich Hykš, Zuzana Malá, Tomáš Vít Zuzana Malá Zuzana Malá (Gar.)	Z	0	0P+2C		V
11SCFZ	Seminar of Physics Old ich Hykš, Jana Kuklová, Zuzana Malá, Tomáš Vít Zuzana Malá Zuzana Malá (Gar.)	Z	0	0P+2C	Z	V

Characteristics of the courses of this group of Study Plan: Code=VP-BP-PIL-CS Name=Bachelor Full-Time PIL (CS) voluntary

Characteristics of the courses of this group of study Flan. Code=VF-BF-FIE-C3 Name=Bachelor Full-Time FIE (C3) Voluntary						
11SEMO	Seminar of Electromagnetic Field and Optics	Z	0			
Solving problems on ele	ectric and magnetic field, electromagnetic field, optics and basics of solid-state physics.					
11SCFZ	Seminar of Physics	Z	0			
Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodynamics.						

#### 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 number	s and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative. Indefinite integral, Newt Riemann integral. First-order differential equations, linear differential equations.		al, improper
11CAL2	Calculus 2	Z,ZK	5
Linear differ	ential equations and their systems, differential calculus of functions of several real variables. Riemann integral in Rn. L	ine and surface integrals.	
11EMO	Electromagnetic Field and Optics	Z,ZK	4
	Electric field. Electric current. Magnetic field. Electromagnetic field. Optics. Basics of solid-state physics.		
11FYZ	Physics	Z,ZK	5
Kinen	natics, dynamics, Newton's laws, force fields, mechanics of continuum, thermodynamics, introduction to electrostatics a	and electric current.	
11GIE	Geometry	KZ	3
Differential geometry of	curves - parameterization, the arc of the curve, torsion and curvature, Frenet`s trihedron. Kinematics - a curve as a tra acceleration of a particle moving on a curved path.	ectory of the motion, the v	elocity, and
11LA	Linear Algebra	Z,ZK	3
Vector spaces (linear cor	nbinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations	and their solvability. Deter	minants and
	their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their cla	assification.	
11SCFZ	Seminar of Physics	Z	0
So	ving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, t	hermodynamics.	
11SEMO	Seminar of Electromagnetic Field and Optics	Z	0
	Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physi	cs.	
11STAT	Statistics	Z,ZK	4
Basics of probability De	scriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates	Parametric tests Nonparan	netric tests
	Regression and correlation analysis		
11X31	Project 1	Z	2
11X32	Project 2	Z	2
11X33	Project 3	Z	2
12X31	Project 1	Z	2
12X32	Project 2	Z	2
12X33	Project 3	Z	2
14AP	Algorithm and Programming	KZ	4

data types (set, tupple, dictionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, instroduction into object oriented programming

14X31	Project 1	Z	2
14X32	Project 2	Z	2
14X33 15JP1A	Project 3	Z	2
I I	Foreign Language - English for PIL 1 ge skills within spoken and written form of the language with the focus on aviation English. Practice of comprehension of auther	_	I
	cy of spoken language. Aviation phraseology in combination with general English. Revision and improvement of grammar structure.  Topics related to air transport and occupation of pilot and air staff.		
15JP2A	Foreign Language - English for PIL 2	KZ	3
	ge skills within spoken and written form of the language with the focus on aviation English. Practice of comprehension of auther		
pronunciation and fluen	cy of spoken language. Aviation phraseology in combination with general English. Revision and improvement of grammar structures of pilot and air staff.	tures, syntax and	vocabulary.
15JZ3A	Topics related to air transport and occupation of pilot and air staff.  Foreign Language - English 3	Z	3
I	stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Faculty's	1	1
	ve and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral a		
	and their features; terminology.		
15JZ4A	Foreign Language - English 4	Z,ZK	3
	stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Faculty's		
improvement in perceptiv	e and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral a and their features; terminology.	nd written form. Ie	echnical texts
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
Fundamental legislative	definition of terms, risks and possible health damage, working conditions and health protection with focus on transportation.	lealth protection p	orogrammes,
45)/4511	health insurance of home and foreign business trips, statistics, working practice.	1/7	1 0
15Y1EH	European Integration within Historical Context tition of new states. Europe and the powers, League of Nations. European policy in the 1920s. Fascism, nacism, communism. L	KZ	2
	er's getting to power, system of bilateral agreements. Decline of the LN. Rearrangement of powers during WWII. Cold war and		
godio. Ediopo ditoi i ilia	New quality of French-German relationship - a driving power of starting European integration.	no concequences	ioi Europo.
15Y1HE	Work Hygiene and Ergonomics in Traffic	KZ	2
Basic knowledge of oc	cupational hygiene and ergonomics, and their application in transport. Working environment factors, and the influence of these	factors on health	of workers.
Creation and protection	of working conditions that do not damage public health. Mutual links: man-machine-environment. Adaptation of technology to p	ossibilities and sk	ills of a man.
	Practical examples from the field of transportation; relevant legislature.		
1EV1UI		V7	T 2
15Y1HL	History of Civil Aviation	KZ	2
Beginnings of flying, dev	History of Civil Aviation elopment of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of a	airports in the Cze	ch Republic.
Beginnings of flying, dev	History of Civil Aviation	airports in the Cze	ch Republic.
Beginnings of flying, dev	History of Civil Aviation elopment of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of a saviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era of	airports in the Cze	ch Republic.
Beginnings of flying, dev World airports. Famous  15Y1ZV  Historical prologue, evolu	History of Civil Aviation elopment of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of a saviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era caviation. Modern era of civil aviation. Airline companies. Supersonic flying.  East-West dichotomy: Prelude to the Cold War ution of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continu	in the Cze of aviation. Golden KZ wity of the internation	ech Republic.  era of civil  2  onal relations
Beginnings of flying, dev World airports. Famous  15Y1ZV  Historical prologue, evolu	History of Civil Aviation elopment of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of a saviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era caviation. Modern era of civil aviation. Airline companies. Supersonic flying.  East-West dichotomy: Prelude to the Cold War ution of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continuity and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the	in the Cze of aviation. Golden KZ wity of the internation	ech Republic.  era of civil  2  onal relations
Beginnings of flying, dev World airports. Famous  15Y1ZV  Historical prologue, evoluin the end of 19th centure	History of Civil Aviation elopment of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of as aviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era caviation. Modern era of civil aviation. Airline companies. Supersonic flying.  East-West dichotomy: Prelude to the Cold War attion of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continuity 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.	in the Cze of aviation. Golden  KZ  ity of the internation  causes and con	ech Republic. I era of civil  2  onal relations isequences.
Beginnings of flying, dev World airports. Famous  15Y1ZV Historical prologue, evoluin the end of 19th centure  16X31	History of Civil Aviation elopment of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of as aviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era caviation. Modern era of civil aviation. Airline companies. Supersonic flying.  East-West dichotomy: Prelude to the Cold War ution of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continuity and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the Economic and financial history. Social changes. Discussions on texts, sources.  Project 1	in the Cze if aviation. Golden  KZ ity of the internation e causes and con	ech Republic. a era of civil 2 conal relations issequences.
Beginnings of flying, dev World airports. Famous  15Y1ZV Historical prologue, evoluin the end of 19th centum  16X31 16X32	History of Civil Aviation elopment of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of as aviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era caviation. Modern era of civil aviation. Airline companies. Supersonic flying.  East-West dichotomy: Prelude to the Cold War tition of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continuity and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the Economic and financial history. Social changes. Discussions on texts, sources.  Project 1  Project 2	airports in the Cze of aviation. Golden  KZ uity of the internative e causes and con  Z Z	ch Republic. era of civil  2 onal relations sequences.  2 2
Beginnings of flying, dev World airports. Famous  15Y1ZV Historical prologue, evoluin the end of 19th centure  16X31 16X32 16X33	History of Civil Aviation elopment of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of as aviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era caviation. Modern era of civil aviation. Airline companies. Supersonic flying.  East-West dichotomy: Prelude to the Cold War ution of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continuity and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the Economic and financial history. Social changes. Discussions on texts, sources.  Project 1  Project 2  Project 3	introperts in the Cze of aviation. Golden  KZ uity of the internation causes and con  Z Z Z	ch Republic.  2 conal relations sequences.  2 2 2
Beginnings of flying, dev World airports. Famous  15Y1ZV Historical prologue, evoluin the end of 19th centum  16X31 16X32 16X33 17X31	History of Civil Aviation elopment of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of a saviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era of aviation. Modern era of civil aviation. Airline companies. Supersonic flying.  East-West dichotomy: Prelude to the Cold War ution of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continuity and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the Economic and financial history. Social changes. Discussions on texts, sources.  Project 1  Project 2  Project 3  Project 1	introperts in the Cze of aviation. Golden  KZ ity of the internation e causes and con  Z Z Z Z	2 2 2 2
Beginnings of flying, dev World airports. Famous  15Y1ZV Historical prologue, evoluin the end of 19th centure  16X31 16X32 16X33 17X31 17X32	History of Civil Aviation elopment of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of a saviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era of aviation. Modern era of civil aviation. Airline companies. Supersonic flying.  East-West dichotomy: Prelude to the Cold War attion of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continuity and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the Economic and financial history. Social changes. Discussions on texts, sources.  Project 1  Project 2  Project 3  Project 1  Project 2	introperts in the Cze of aviation. Golden  KZ ity of the internative causes and con  Z Z Z Z Z Z	ch Republic.  2 conal relations sequences.  2 2 2 2 2 2 2
Beginnings of flying, dev World airports. Famous  15Y1ZV Historical prologue, evoluin the end of 19th centur  16X31 16X32 16X33 17X31 17X32 17X33	History of Civil Aviation elopment of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of as aviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era caviation. Modern era of civil aviation. Airline companies. Supersonic flying.  East-West dichotomy: Prelude to the Cold War  Ition of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continuary and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the Economic and financial history. Social changes. Discussions on texts, sources.  Project 1  Project 2  Project 3  Project 2  Project 3  Project 3  Project 3	introperts in the Cze of aviation. Golden  KZ ity of the internative causes and con  Z  Z  Z  Z  Z  Z	ch Republic.  2 conal relations is equences.
Beginnings of flying, dev World airports. Famous  15Y1ZV Historical prologue, evoluin the end of 19th centure  16X31 16X32 16X33 17X31 17X32 17X33 17Y1LL	History of Civil Aviation elopment of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of a saviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era of aviation. Modern era of civil aviation. Airline companies. Supersonic flying.  East-West dichotomy: Prelude to the Cold War attion of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continuity and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the Economic and financial history. Social changes. Discussions on texts, sources.  Project 1  Project 2  Project 3  Project 1  Project 2	interports in the Cze of aviation. Golden  KZ uity of the internative e causes and con  Z  Z  Z  Z  Z  Z  KZ	ch Republic.  2 conal relations sequences.
Beginnings of flying, dev World airports. Famous  15Y1ZV Historical prologue, evoluin the end of 19th centure  16X31 16X32 16X33 17X31 17X32 17X33 17Y1LL	History of Civil Aviation elopment of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of as aviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era caviation. Modern era of civil aviation. Airline companies. Supersonic flying.  East-West dichotomy: Prelude to the Cold War ution of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continuary and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the Economic and financial history. Social changes. Discussions on texts, sources.  Project 1  Project 2  Project 3  Project 1  Project 2  Project 3  Logistics of Passenger and Freight Air Transport	interports in the Cze of aviation. Golden  KZ uity of the internative e causes and con  Z  Z  Z  Z  Z  Z  KZ	ch Republic.  2 conal relations sequences.  2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Beginnings of flying, dev World airports. Famous  15Y1ZV Historical prologue, evoluin the end of 19th centure  16X31 16X32 16X33 17X31 17X32 17X33 17Y1LL	History of Civil Aviation elopment of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of as aviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era caviation. Modern era of civil aviation. Airline companies. Supersonic flying.  East-West dichotomy: Prelude to the Cold War tition of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continuity and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the Economic and financial history. Social changes. Discussions on texts, sources.  Project 1  Project 2  Project 3  Project 1  Project 2  Project 3  Logistics of Passenger and Freight Air Transport er and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transport	interports in the Cze of aviation. Golden  KZ uity of the internative e causes and con  Z  Z  Z  Z  Z  Z  KZ	ch Republic.  2 conal relations sequences.
Beginnings of flying, dev World airports. Famous  15Y1ZV Historical prologue, evoluin the end of 19th centure  16X31 16X32 16X33 17X31 17X32 17X33 17Y1LL Logistics airline passeng	History of Civil Aviation elopment of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of a aviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era of aviation. Modern era of civil aviation. Airline companies. Supersonic flying.  East-West dichotomy: Prelude to the Cold War attion of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continuary and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the Economic and financial history. Social changes. Discussions on texts, sources.  Project 1  Project 2  Project 3  Project 1  Project 2  Project 3  Logistics of Passenger and Freight Air Transport er and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transir cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 1  Project 2	introperts in the Cze of aviation. Golden  KZ ity of the internative causes and con  Z Z Z Z Z Z KZ Sport process pass	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Beginnings of flying, dev World airports. Famous  15Y1ZV Historical prologue, evolution the end of 19th centure  16X31 16X32 16X33 17X31 17X32 17X33 17Y1LL Logistics airline passeng	History of Civil Aviation elopment of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of a saviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era of aviation. Modern era of civil aviation. Airline companies. Supersonic flying.  East-West dichotomy: Prelude to the Cold War attion of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continuary and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the Economic and financial history. Social changes. Discussions on texts, sources.  Project 1  Project 2  Project 3  Project 1  Project 2  Project 2  Project 3  Logistics of Passenger and Freight Air Transport er and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transir cargo. Information systems in air transport. Global distribution systems.  Project 1	Interports in the Cze of aviation. Golden  KZ Interports in the Cze of aviation. Golden  KZ Interports in the Cze Interports in the	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Beginnings of flying, dev World airports. Famous  15Y1ZV Historical prologue, evoluin the end of 19th centuring the following th	History of Civil Aviation elopment of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of a aviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era caviation. Modern era of civil aviation. Airline companies. Supersonic flying.  East-West dichotomy: Prelude to the Cold War attion of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continuity and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the Economic and financial history. Social changes. Discussions on texts, sources.  Project 1  Project 2  Project 3  Project 1  Project 2  Project 3  Logistics of Passenger and Freight Air Transport er and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transir cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2  Project 3  Anatomy, Mobility and Safety of Man	interports in the Cze of aviation. Golden  KZ ity of the internative causes and con  Z Z Z Z Z Z KZ sport process pass  Z Z KZ KZ KZ KZ	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Beginnings of flying, dev World airports. Famous  15Y1ZV Historical prologue, evoluin the end of 19th centure  16X31 16X32 16X33 17X31 17X32 17X33 17Y1LL Logistics airline passeng  18X31 18X32 18X33 18Y1AM Survey of tissues. Anaton	History of Civil Aviation elopment of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of a saviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era of aviation. Modern era of civil aviation. Airline companies. Supersonic flying.  East-West dichotomy: Prelude to the Cold War tition of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continuity and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the Economic and financial history. Social changes. Discussions on texts, sources.  Project 1  Project 2  Project 2  Project 3  Logistics of Passenger and Freight Air Transport er and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transic cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2  Project 3  Anatomy, Mobility and Safety of Man nical structure of muscles. Blood circulation	interports in the Cze of aviation. Golden  KZ ity of the internative causes and con  Z Z Z Z Z Z X Sport process pass  Z Z Z A A A A A A A A A A A A A A A	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Beginnings of flying, dev World airports. Famous  15Y1ZV Historical prologue, evoluin the end of 19th centure  16X31 16X32 16X33 17X31 17X32 17X33 17Y1LL Logistics airline passeng  18X31 18X32 18X33 18Y1AM Survey of tissues. Anaton	History of Civil Aviation elopment of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of a saviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era of aviation. Modern era of civil aviation. Airline companies. Supersonic flying.  East-West dichotomy: Prelude to the Cold War tition of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continuity and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the Economic and financial history. Social changes. Discussions on texts, sources.  Project 1  Project 2  Project 3  Project 1  Project 2  Project 3  Logistics of Passenger and Freight Air Transport er 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 nical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation scular-skeletal system. Injury of human organs and musculo-skeletal system during traffic accidents. Mobility of ill and injured of the contraction of the contrac	interports in the Cze of aviation. Golden  KZ ity of the internative causes and con  Z Z Z Z Z Z X Sport process pass  Z Z Z A A A A A A A A A A A A A A A	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Beginnings of flying, dev World airports. Famous  15Y1ZV Historical prologue, evolution the end of 19th centure  16X31 16X32 16X33 17X31 17X32 17X33 17Y1LL Logistics airline passeng  18X31 18X32 18X33 18Y1AM Survey of tissues. Anaton and biomechanics of mu	History of Civil Aviation elopment of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of as aviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era of aviation. Modern era of civil aviation. Airline companies. Supersonic flying.  East-West dichotomy: Prelude to the Cold Warn thin the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continuity and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the Economic and financial history. Social changes. Discussions on texts, sources.  Project 1  Project 2  Project 3  Project 1  Project 2  Project 3  Logistics of Passenger and Freight Air Transport er and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transic cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2  Project 2  Project 1  Project 2  Project 3  Anatomy, Mobility and Safety of Man nical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation scular-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.	introorts in the Cze of aviation. Golden  KZ ity of the internative e causes and con  Z  Z  Z  Z  Z  KZ  sport process pass  KZ  and nervous systman and his treatr	ch Republic.  2 conal relations sequences.  2 conal relations sequences.  2 conal relations sequences.  2 conal relations sequences.
Beginnings of flying, dev World airports. Famous  15Y1ZV Historical prologue, evolution the end of 19th centure  16X31 16X32 16X33 17X31 17X32 17X33 17Y1LL Logistics airline passeng  18X31 18X32 18X33 18Y1AM Survey of tissues. Anaton and biomechanics of mu  18Y1EM	History of Civil Aviation elopment of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of as aviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era of aviation. Modern era of civil aviation. Airline companies. Supersonic flying.  East-West dichotomy: Prelude to the Cold War tition of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continuity and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the Economic and financial history. Social changes. Discussions on texts, sources.  Project 1  Project 2  Project 3  Project 1  Project 2  Project 3  Logistics of Passenger and Freight Air Transport er and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transpir cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2  Project 3  Anatomy, Mobility and Safety of Man nical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation scular-skeletal system. Injury of human organs and musculo-skeletal system during traffic accidents. Mobility of ill and injured to joint prostheses. Protective means and traffic safety regulations.  Experimental Methods in Mechanics	introorts in the Cze of aviation. Golden  KZ ity of the internative e causes and con  Z  Z  Z  Z  Z  KZ  sport process pass  KZ  and nervous systeman and his treatr	ch Republic.  2 conal relations sequences.  2 conal relations sequences.  2 conal relations sequences.  2 conal relations sequences.
Beginnings of flying, dev World airports. Famous  15Y1ZV Historical prologue, evolution the end of 19th centure  16X31 16X32 16X33 17X31 17X32 17X33 17Y1LL Logistics airline passeng  18X31 18X32 18X33 18Y1AM Survey of tissues. Anaton and biomechanics of mu  18Y1EM The purpose and role of	History of Civil Aviation elopment of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of a saviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era caviation. Modern era of civil aviation. Airline companies. Supersonic flying.  East-West dichotomy: Prelude to the Cold War tition of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continuity and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the Economic and financial history. Social changes. Discussions on texts, sources.  Project 1  Project 2  Project 3  Project 1  Project 2  Project 3  Logistics of Passenger and Freight Air Transport er and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transin cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2  Project 2  Project 2  Project 3  Anatomy, Mobility and Safety of Man nical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation scular-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 experimental mechanics. Sensors for mechanical testing. Overview of experimental methods. Destructive and non-destructive and sample preparation. Tensile and bending tests. Electrical resistance strain gages. Optical based strain measurement. Factor in the properties of	introorts in the Cze of aviation. Golden  KZ ity of the internative e causes and con  Z Z Z Z Z Z Z Z Z Z X Z A X Sport process pass  KZ and nervous systeman and his treatr  KZ testing of material	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Beginnings of flying, dev World airports. Famous  15Y1ZV Historical prologue, evolution the end of 19th centure  16X31 16X32 16X33 17X31 17X32 17X33 17Y1LL Logistics airline passeng  18X31 18X32 18X33 18Y1AM Survey of tissues. Anaton and biomechanics of mu  18Y1EM The purpose and role of experimental procedure	History of Civil Aviation elopment of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of a saviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era or aviation. Modern era of civil aviation. Airline companies. Supersonic flying.  East-West dichotomy: Prelude to the Cold War tition of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continuity and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the Economic and financial history. Social changes. Discussions on texts, sources.  Project 1  Project 2  Project 3  Project 1  Project 2  Project 3  Logistics of Passenger and Freight Air Transport er and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transir cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2  Project 2  Project 1  Project 2  Project 1  Project 2  Project 1  Project 2  Project 3  Anatomy, Mobility and Safety of Man nical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation scular-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 experimental mechanics. Sensors for mechanical testing. Overview of experimental methods. Destructive and non-destructive and sample preparation. Tensile and bending tests. Electrical resistance strain gages. Optical based strain measurement. Fall Instrumented hardness testing. Introduction to electron microscopy. Errors in measurement.	introorts in the Cze of aviation. Golden  KZ ity of the internative e causes and con  Z Z Z Z Z Z Z Z Z Z X Z A X Sport process pass  KZ and nervous systeman and his treatr  KZ testing of material	ch Republic. I era of civil  2 conal relations sequences.  2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 anssengers and 2 2 2 ans. Structurement. Human
Beginnings of flying, dev World airports. Famous  15Y1ZV Historical prologue, evolution the end of 19th centure  16X31 16X32 16X33 17X31 17X32 17X33 17Y1LL Logistics airline passeng  18X31 18X32 18X33 18Y1AM Survey of tissues. Anaton and biomechanics of mu  18Y1EM The purpose and role of experimental procedure	History of Civil Aviation elopment of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of a saviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era caviation. Modern era of civil aviation. Airline companies. Supersonic flying.  East-West dichotomy: Prelude to the Cold War tition of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continuity and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the Economic and financial history. Social changes. Discussions on texts, sources.  Project 1  Project 2  Project 3  Project 1  Project 2  Project 3  Logistics of Passenger and Freight Air Transport er and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transin cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2  Project 2  Project 2  Project 3  Anatomy, Mobility and Safety of Man nical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation scular-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 experimental mechanics. Sensors for mechanical testing. Overview of experimental methods. Destructive and non-destructive and sample preparation. Tensile and bending tests. Electrical resistance strain gages. Optical based strain measurement. Factor in the properties of	introorts in the Cze of aviation. Golden  KZ ity of the internative causes and con  Z Z Z Z Z Z KZ Sport process pass  KZ and nervous systman and his treatr  KZ testing of material atigue and lifetime  KZ	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Beginnings of flying, dev World airports. Famous  15Y1ZV Historical prologue, evolutin the end of 19th centur  16X31 16X32 16X33 17X31 17X32 17X33 17Y1LL Logistics airline passeng  18X31 18X32 18X33 18Y1AM Survey of tissues. Anaton and biomechanics of mu  18Y1EM The purpose and role of experimental procedure  18Y1MT Systematic overview of tissues.	History of Civil Aviation elopment of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of as aviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era of aviation. Modern era of civil aviation. Airline companies. Supersonic flying.  East-West dichotomy: Prelude to the Cold War tion of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continuity and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the Economic and financial history. Social changes. Discussions on texts, sources.  Project 1  Project 2  Project 2  Project 3  Project 1  Project 2  Project 3  Logistics of Passenger and Freight Air Transport er and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transir cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 1  Project 2  Project 3  Anatomy, Mobility and Safety of Man nical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation scular-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 experimental mechanics. Sensors for mechanical testing. Overview of experimental methods. Destructive and non-destructive and sample preparation. Tensile and bending tests. Electrical resistance strain gages. Optical based strain measurement. Engineering Materials	introorts in the Cze of aviation. Golden  KZ ity of the internative e causes and con  Z  Z  Z  Z  Z  KZ  sport process pass  KZ and nervous systman and his treatr  KZ testing of material atigue and lifetime  KZ d composites, atted	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Beginnings of flying, dev World airports. Famous  15Y1ZV Historical prologue, evolutin the end of 19th centur  16X31 16X32 16X33 17X31 17X32 17X33 17Y1LL Logistics airline passeng  18X31 18X32 18X33 18Y1AM Survey of tissues. Anaton and biomechanics of mu  18Y1EM The purpose and role of experimental procedure  18Y1MT Systematic overview of tissues.	History of Civil Aviation elopment of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of a saviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era of aviation. Modern era of civil aviation. Airline companies. Supersonic flying.  East-West dichotomy: Prelude to the Cold War and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continutry and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the Economic and financial history. Social changes. Discussions on texts, sources.  Project 1  Project 2  Project 3  Project 3  Project 3  Logistics of Passenger and Freight Air Transport er and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transic cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2  Project 1  Project 1  Project 1  Project 1  Project 3  Anatomy, Mobility and Safety of Man nical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation scular-skeletal system. Injury of human organs and musculo-skeletal system during traffic accidents. Mobility of ill and injured injoint prostheses. Protective means and traffic safety regulations.  Experimental Methods in Mechanics experimental mechanics. Sensors for mechanical testing. Overview of experimental methods. Destructive and non-destructive and sample preparation. Tensile and bending tests. Electrical resistance strain gages. Optical based strain measurement. Engineering Materials  main classes of materials used in technical design. In addition to main classes of materials, i. e. metals, ceramics, polymers an	introorts in the Cze of aviation. Golden  KZ ity of the internative e causes and con  Z  Z  Z  Z  Z  KZ  sport process pass  KZ and nervous systman and his treatr  KZ testing of material atigue and lifetime  KZ d composites, atted	ch Republic. I era of civil  2 onal relations sequences.  2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Beginnings of flying, dev World airports. Famous  15Y1ZV Historical prologue, evoluting the end of 19th centure  16X31 16X32 16X33 17X31 17X32 17X33 17Y1LL Logistics airline passeng  18X31 18X32 18X33 18Y1AM Survey of tissues. Anaton and biomechanics of mu  18Y1EM The purpose and role of experimental procedure  18Y1MT Systematic overview of to biological 18Y1PD Principles and overview of the state of the procedure of the state of the procedure	History of Civil Aviation elopment of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of a vaitors. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era of aviations. Modern era of civil aviation. Airline companies. Supersonic flying.  East-West dichotomy: Prelude to the Cold War aviation of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continuity and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the Economic and financial history. Social changes. Discussions on texts, sources.  Project 1  Project 2  Project 3  Project 1  Project 2  Project 3  Logistics of Passenger and Freight Air Transport er and cargo. Aircraft and airport terminals for passenger and cargo transport. Global distribution systems. Aerial transification air cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2  Project 3  Anatomy, Mobility and Safety of Man nical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation scular-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 experimental mechanics. Sensors for mechanical testing. Overview of experimental methods. Destructive and non-destructive set and sample preparation. Tensile and bending tests. Electrical resistance strain gages. Optical based strain measurement.  Engineering Materials main classes of materials used in technical design. In addition to main classes of materials, i. e. metals, ceramics, polymers an materials and to biomiretics. Integral approach to material selection process is also demonstrated based on so called Ashby Computer Simulati	introorts in the Cze of aviation. Golden  KZ ity of the internative causes and con  Z  Z  Z  Z  Z  KZ  sport process pass  Z  Z  KZ  and nervous systeman and his treatr  KZ testing of material atigue and lifetime  KZ d composites, attest is selection charts  KZ ent and adaptation	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Beginnings of flying, dev World airports. Famous  15Y1ZV Historical prologue, evoluin the end of 19th centur  16X31 16X32 16X33 17X31 17X32 17X33 17Y1LL Logistics airline passeng  18X31 18X32 18X33 18Y1AM Survey of tissues. Anaton and biomechanics of mu  18Y1EM The purpose and role of experimental procedure  18Y1MT Systematic overview of to biological 18Y1PD Principles and overview of the state of the sta	History of Civil Aviation  elopment of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of air saviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era of aviation. Modern era of civil aviation. Airline companies. Supersonic flying.  East-West dichotomy: Prellude to the Cold War aviation. Modern era of civil aviation. Airline companies. Supersonic flying.  East-West dichotomy: Prellude to the Cold War aviation of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continuity and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the Economic and financial history. Social changes. Discussions on texts, sources.  Project 1  Project 2  Project 1  Project 2  Project 3  Logistics of Passenger and Freight Air Transport  er and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transport. Airlines in terms of logistics systems. Aerial transport air cargo. Information systems in air transport. Global distribution systems.  Project 1  Project 2  Project 2  Project 3  Anatomy, Mobility and Safety of Man anical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation scular-skeletal system. Injury of human organs and musculo-skeletal system during traffic accidents. Mobility of ill and injured injoint prostheses. Protective means and traffic safety regulations.  Experimental Methods in Mechanics  experimental mechanics. Sensors for mechanical testing. Overview of experimental methods. Destructive and non-destructive and sample preparation. Tensile and bending tests. Electrical resistance strain gages. Optical based strain measurement. Engineering Materials  Engineering Materials  Engineering Materials and to biomimetics. Integral appro	introorts in the Cze of aviation. Golden  KZ ity of the internative causes and con  Z  Z  Z  Z  Z  KZ  sport process pass  Z  Z  KZ  and nervous systeman and his treatr  KZ testing of material atigue and lifetime  KZ d composites, attest is selection charts  KZ ent and adaptation	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

18Y1PS	Computer Simulations in Mechanics	KZ	2
	view of tools for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model developme	•	
from other CAE sys	stems. Assignment of material properties. The types of elements and their use. Discretization of solid model. Boundary conditions and tasks of structural and modal analysis. Introduction to complex nonlinear problems.	a application of the	e load. Basic
20X31	Project 1	Z	2
20X31	Project 2	Z	2
20X32 20X33	Project 3	Z	2
21AFL1-E	Advanced Flying 1	Z,ZK	3
	Advanced Figing 1 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	•	
·	briefings, phraseology differences, lost communication procedures, CFIT prevention, decompresion		•
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	d components and	wind drift;
	VFR route selection; position plotting.		1
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 ft, flight documentation - loadsheet, trimsheet, securing of load, determination of centre of gravity, influence of centre of gravity positi		
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 from	n the perspective	of ground
	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	orkload managem	ent. Upset
041.4.04	preventation and recovery training. Mental math.		
21LAP1	Aviation English for Professional Pilot 1 d on continuous reading specialized texts, vocabulary extension of technical English, terminology in the sphere of aircraft constructio	Z	2
	engines, instruments and systems, analyzes relating to topics of air traffic, operational procedures, relevant legislation and operators		in, ancian
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		
	airlines.		
21LCM	Aircraft Engines	Z,ZK	3
Aircraft piston end	ine, theoretical background, operational characteristics and construction schemes. Propellers, operational characterictics. Turbine en	aina theoretical b	
		-	-
thermal cycles, co	onstruction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational ch	aracteristics. Engi	ne control.
thermal cycles, co	onstruction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational ch Aircraft 1	aracteristics. Engi	ne control.
thermal cycles, co	onstruction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational ch Aircraft 1 nd conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and ca	aracteristics. Engi Z,ZK ategorisation. Aircr	ne control.
thermal cycles, co	onstruction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational ch Aircraft 1	aracteristics. Engi Z,ZK ategorisation. Aircr	ne control.
thermal cycles, or 21LDA1 Aircraft structural a	onstruction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics. Aircraft 1  nd conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and cases a Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic	aracteristics. Engi Z,ZK ategorisation. Aircres. Z,ZK	ne control.  3 raft loadings.
thermal cycles, or 21LDA1 Aircraft structural a 21LDA2 Manufacturers resp	Aircraft 1  nd conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and care Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic  Aircraft 2	aracteristics. Engi Z,ZK ategorisation. Aircres. Z,ZK idards. Static solid mption.	aft loadings.  4 ity of aircraft
thermal cycles, co 21LDA1 Aircraft structural a 21LDA2 Manufacturers resp 21LEIS	Onstruction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics.  Aircraft 1  Mud conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and cannot be systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic consibility, responsibilities of operator and professional supervising. Legislation in area of airworthiness. International and national start structures. Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presure considerations.	aracteristics. Engi Z,ZK ategorisation. Aircres. Z,ZK adards. Static solid mption. Z,ZK	ne control.  3 aft loadings.  4 ity of aircraft
thermal cycles, co	Aircraft 2 Onsibility, responsibilities of operator and professional supervising. Legislation in area of airworthiness. International and national star structures. Aeroelasticity. Inherent and operational reliability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mar	aracteristics. Engi Z,ZK ategorisation. Aircres. Z,ZK adards. Static solid mption. Z,ZK rkings of movemer	ne control.  3 aft loadings.  4 ity of aircraft  3 nt areas.
thermal cycles, co	Aircraft 1  Ind conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and care Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic Aircraft 2  Indicate the systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic Aircraft 2  Indicate the systems of operator and professional supervising. Legislation in area of airworthiness. International and national star structures. Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presultation are systems. Visual aids for denoting obstacles. Obstacle restriction, removal. Visual aids for navigation, lights, approach lighting systems.	aracteristics. Engi Z,ZK ategorisation. Aircres. Z,ZK adards. Static solid mption. Z,ZK rkings of movemer	ne control.  3 aft loadings.  4 ity of aircraft  3 nt areas.
thermal cycles, co 21LDA1 Aircraft structural a 21LDA2 Manufacturers resp 21LEIS Basic definition Markings. Signs. M	Aircraft 1  Ind conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and care Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic Aircraft 2  Indicate the problem of requirements of requirements, aircraft definitions and care systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic Aircraft 2  Indicate the problem of primary and secondary airframe structure. Begislation in area of airworthiness. International and national stare structures. Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presure Aerodromes  Indicate the problem of the problem. Development of requirements, aircraft definitions and care and propulsion unit. Lectures are devoted to aeroplane topic Aircraft 2  Indicate the problem of the problem of the problem of the problem. Development of requirements, aircraft definitions and care and propulsion unit. Lectures are devoted to aeroplane topic acreating the problem of problem of the problem. Development of requirements, aircraft definitions and care and propulsion unit. Lectures are devoted to aeroplane topic acreating the problem of problem of the problem of t	aracteristics. Engi Z,ZK ategorisation. Aircr cs. Z,ZK dards. Static solid mption. Z,ZK rkings of movemer risual approach slo	ne control.  3 aft loadings.  4 ity of aircraft  3 nt areas. ope indicator
thermal cycles, or 21LDA1 Aircraft structural a 21LDA2 Manufacturers resp 21LEIS Basic definition Markings. Signs. M	Aircraft 1  Ind conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and care Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic Aircraft 2  Indicate the systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic Aircraft 2  Indicate the systems of operator and professional supervising. Legislation in area of airworthiness. International and national star structures. Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presultation are systems. Visual aids for denoting obstacles. Obstacle restriction, removal. Visual aids for navigation, lights, approach lighting systems.	aracteristics. Engi Z,ZK ategorisation. Aircr cs. Z,ZK adards. Static solid mption. Z,ZK rkings of movemer risual approach slo	ne control.  3 aft loadings.  4 ity of aircraft  3 nt areas. ope indicator
thermal cycles, or 21LDA1 Aircraft structural a 21LDA2 Manufacturers resp 21LEIS Basic definition Markings. Signs. M	Aircraft 1  Ind conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and care Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic Aircraft 2  Indicated the problem of requirements of requirements, aircraft definitions and care Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic Aircraft 2  Indicated the problem of the problem of the problem. Development of requirements, aircraft definitions and care systems. International and national starn structures. Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presure Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presure Aeroelasticity. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mararkers. 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.  Air Law 1	aracteristics. Engi Z,ZK ategorisation. Aircr cs. Z,ZK adards. Static solid mption. Z,ZK rkings of movemer risual approach slo	ne control.  3 aft loadings.  4 ity of aircraft  3 nt areas. ope indicator
thermal cycles, co 21LDA1 Aircraft structural a 21LDA2 Manufacturers resp 21LEIS Basic definition Markings. Signs. M	Aircraft 1 Ind conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and care Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic Aircraft 2 Indicated the problem of the problem of the problem. Development of requirements, aircraft definitions and care Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic Aircraft 2 Indicated the problem of the prob	aracteristics. Engi Z,ZK ategorisation. Aircr cs. Z,ZK adards. Static solid mption. Z,ZK rkings of movemer risual approach slo	ne control.  3 aft loadings.  4 ity of aircraft  3 nt areas. ope indicator
thermal cycles, co 21LDA1 Aircraft structural a 21LDA2 Manufacturers resp 21LEIS Basic definition Markings. Signs. M 21LEY1 Air Law; ICAO Do	Aircraft 1 Ind conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and care Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic Aircraft 2 Indicated the problem of the problem of the problem. Development of requirements, aircraft definitions and care Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic Aircraft 2 Indicated the problem of the prob	aracteristics. Engi Z,ZK ategorisation. Aircr ss. Z,ZK adards. Static solid mption. Z,ZK rkings of movemer risual approach slo ZK Commission regul	ne control.  3 aft loadings.  4 ity of aircraft  3 nt areas. ope indicator  3 lation (EU)
thermal cycles, co 21LDA1 Aircraft structural a 21LDA2 Manufacturers resp 21LEIS Basic definition Markings. Signs. M 21LEY1 Air Law; ICAO Do 21LPTY-E 21LPX1	Aircraft 1  Indiconceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and care Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic Aircraft 2  Indiconceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and care Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic Aircraft 2  Indiconsibility, responsibilities of operator and professional supervising. Legislation in area of airworthiness. International and national starn structures. Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presure Aerodromes  Indiconsibility. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mararkers. 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.  Air Law 1  Indiconsibility. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mararkers. Visual aids for denoting obstacles.  Air Law 1  Indiconsibility. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mararkers. Visual aids for denoting obstacles.  Air Law 1  Indiconsibility. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mararkers. Visual aids for navigation, lights, approach lighting systems. V systems. Runway lights. Visual aids for denoting obstacles.  Air Law 1  Indiconsibility. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopways and aprons. Clearway. Stopways and aprons. Clearway. Stopways	aracteristics. Engi Z,ZK ategorisation. Aircr ss. Z,ZK dards. Static solid mption. Z,ZK rkings of movemer risual approach slo ZK Commission regu ZK R flight KZ	ne control.  3 aft loadings.  4 ity of aircraft  3 nt areas. ope indicator  3 lation (EU)  2
thermal cycles, co 21LDA1 Aircraft structural a 21LDA2 Manufacturers resp 21LEIS Basic definition Markings. Signs. M 21LEY1 Air Law; ICAO Do 21LPTY-E 21LPX1 Practical exercis	Aircraft 2  Onsibility, responsibilities of operator and professional reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presure Aerodromes  s. Applicability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Marakers. Visual aids for denoting obstacles. Obstacle restriction, removal. Visual aids for denoting obstacles. Runway lights. Taxiway lights. Visual aids for denoting obstacles.  Air Law 1  c 7300; ICAO Doc 7500 and 9626; International Organizations: ICAO, IATA, EASA, EUROCONTROL; airworthiness; ICAO Annexes; 965/2012.  Aircraft Operations  Aircraft Operations  Aircraft Description of theoretical knowledge in a range of at least PPL(A) of the objects 010 - 090 in accordance with Part FCL. The	aracteristics. Engi Z,ZK ategorisation. Aircr ss. Z,ZK adards. Static solid mption. Z,ZK rkings of movemer risual approach slo ZK Commission regu ZK R flight KZ basics of flight cor	ne control.  3 aft loadings.  4 ity of aircraft  3 nt areas. ope indicator  3 lation (EU)  2  2  trol, dual
thermal cycles, co 21LDA1 Aircraft structural a 21LDA2 Manufacturers resp 21LEIS Basic definition Markings. Signs. M 21LEY1 Air Law; ICAO Do 21LPTY-E 21LPX1 Practical exercis	Aircraft 1  Ind conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and conceptual design types - definitions and conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and conceptual design types - definitions and proposed in a range of at least PPL(A) of the objects 010 - 090 in accordance with Part FCL. The ghts and navigation flights. This course is intended only for long-term student, who are in integrated pilots training and study all course in the definitions and conceptual design types - definitions and proposed and conceptual design types - definitions and study all course in the definition and study all course in the definition and study all course - definitions - definition	aracteristics. Engi Z,ZK ategorisation. Aircr ss. Z,ZK adards. Static solid mption. Z,ZK rkings of movemer risual approach slo ZK Commission regu ZK R flight KZ basics of flight cor	ne control.  3 aft loadings.  4 ity of aircraft  3 nt areas. ope indicator  3 lation (EU)  2  2  trol, dual
thermal cycles, co 21LDA1 Aircraft structural a 21LDA2 Manufacturers resp 21LEIS Basic definition Markings. Signs. M  21LEY1 Air Law; ICAO Do  21LPTY-E  21LPX1 Practical exercise exercises, solo fli	Aircraft 1  Indiconceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and care Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic Aircraft 2  Indiconceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and care Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic Aircraft 2  Indiconsibility, responsibilities of operator and professional supervising. Legislation in area of airworthiness. International and national star structures. Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presu Aerodromes  Indiconsibility. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mararkers. 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.  Air Law 1  Indiconsibility. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mararkers. Visual aids for denoting obstacles.  Air Law 1  Indiconsibility. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mararkers. Visual aids for denoting obstacles.  Air Law 1  Indiconsibility. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mararkers. Visual aids for navigation, lights, approach lighting systems. V systems. V systems. Runway lights. Taxiway lights. Visual aids for denoting obstacles.  Air Law 1  Indiconsibility. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopways. V systems. Runways lights. Taxiways a	aracteristics. Engi Z,ZK ategorisation. Aircr ss. Z,ZK dards. Static solid mption. Z,ZK rkings of movemer risual approach slo ZK Commission regu ZK R flight KZ basics of flight cores related to Stud	ne control.  3 aft loadings.  4 ity of aircraft  3 nt areas. ope indicator  3 lation (EU)  2  1 2  1 2  1 2  1 2  1 2  1 2  1 2
thermal cycles, or 21LDA1 Aircraft structural a 21LDA2 Manufacturers resp 21LEIS Basic definition Markings. Signs. M  21LEY1 Air Law; ICAO Do  21LPTY-E  21LPX1 Practical exercise exercises, solo fli  21LPX2	enstruction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristic.  Aircraft 1  onsibility, responsibilities of operator and professional supervising. Legislation in area of airworthiness. International and national star structures. Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presu Aerodromes  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 systems. Runway lights. Taxiway lights. Visual aids for denoting obstacles.  Air Law 1  c 7300; ICAO Doc 7500 and 9626; International Organizations: ICAO, IATA, EASA, EUROCONTROL; airworthiness; ICAO Annexes; 965/2012.  Aircraft Operations  Aircraft Operations  Aircraft operation for cruise, approach, final approach, missed approach, hodling, PBN, augmented GNSS, aviation charts for IF Flight Training 1  es for improvement of theoretical knowledge in a range of at least PPL(A) of the objects 010 - 090 in accordance with Part FCL. The ghts and navigation flights. This course is intended only for long-term student, who are in integrated pilots training and study all cours (Professional Pilot) in all three years.  Flight Training 2	aracteristics. Engi Z,ZK ategorisation. Aircr ss. Z,ZK dards. Static solid mption. Z,ZK rkings of movemer risual approach slo ZK Commission regu ZK R flight KZ basics of flight cor ses related to Stud	ne control.  3 aft loadings.  4 ity of aircraft  3 nt areas. ope indicator  3 lation (EU)  2 htrol, dual by field PIL
thermal cycles, co 21LDA1 Aircraft structural a 21LDA2 Manufacturers resp 21LEIS Basic definition Markings. Signs. M  21LEY1 Air Law; ICAO Do  21LPTY-E  21LPX1 Practical exercise exercises, solo fli  21LPX2 Practical exercise	Aircraft 1  Indiconceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and care Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic Aircraft 2  Indiconceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and care Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic Aircraft 2  Indiconsibility, responsibilities of operator and professional supervising. Legislation in area of airworthiness. International and national star structures. Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presu Aerodromes  Indiconsibility. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mararkers. 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.  Air Law 1  Indiconsibility. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mararkers. Visual aids for denoting obstacles.  Air Law 1  Indiconsibility. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mararkers. Visual aids for denoting obstacles.  Air Law 1  Indiconsibility. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mararkers. Visual aids for navigation, lights, approach lighting systems. V systems. V systems. Runway lights. Taxiway lights. Visual aids for denoting obstacles.  Air Law 1  Indiconsibility. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopways. V systems. Runways lights. Taxiways a	aracteristics. Engi Z,ZK ategorisation. Aircr ss. Z,ZK dards. Static solid mption. Z,ZK rkings of movemer risual approach slo ZK Commission regu ZK R flight KZ basics of flight cor ses related to Stud KZ e basics of instrun	ne control.  3 aft loadings.  4 ity of aircraft  3 nt areas. ope indicator  3 lation (EU)  2 htrol, dual by field PIL  2 nent flying,
thermal cycles, co 21LDA1 Aircraft structural a 21LDA2 Manufacturers resp 21LEIS Basic definition Markings. Signs. M  21LEY1 Air Law; ICAO Do  21LPTY-E  21LPX1 Practical exercise exercises, solo fli  21LPX2 Practical exercise dual exercises, em	Aircraft 1  Ind conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and care Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic Aircraft 2  Onsibility, responsibilities of operator and professional supervising. Legislation in area of airworthiness. International and national starn structures. Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presures. Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presures. Aeroelasticity. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mararkers. 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.  Air Law 1  c 7300; ICAO Doc 7500 and 9626; International Organizations: ICAO, IATA, EASA, EUROCONTROL; airworthiness; ICAO Annexes; 965/2012.  Aircraft Operations  Aircraft operation for cruise, approach, final approach, missed approach, hodling, PBN, augmented GNSS, aviation charts for IF Flight Training 1  es for improvement of theoretical knowledge in a range of at least PPL(A) of the objects 010 - 090 in accordance with Part FCL. The ghts and navigation flights. This course is intended only for long-term student, who are in integrated pilots training and study all course (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	aracteristics. Engi Z,ZK ategorisation. Aircr ss. Z,ZK dards. Static solid mption. Z,ZK rkings of movemer risual approach slo ZK Commission regu ZK R flight KZ basics of flight cor ses related to Stud KZ e basics of instrun	ne control.  3 aft loadings.  4 ity of aircraft  3 nt areas. ope indicator  3 lation (EU)  2 htrol, dual by field PIL  2 nent flying,
thermal cycles, co 21LDA1 Aircraft structural a 21LDA2 Manufacturers resp 21LEIS Basic definition Markings. Signs. M  21LEY1 Air Law; ICAO Do  21LPTY-E  21LPX1 Practical exercise exercises, solo fli  21LPX2 Practical exercise	Aircraft 1  and conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and conceptual design types - definitions and conceptual design types - definitions and conceptual design types - definitions and conceptual design and propagation are structure. Aircraft 2  onsibility, responsibilities of operator and professional supervising. Legislation in area of airworthiness. International and national star structures. Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presure Aerodromes  s. Applicability, Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mararkers. Visual aids for denoting obstacles.  Air Law 1  c 7300; ICAO Doc 7500 and 9626; International Organizations: ICAO, IATA, EASA, EUROCONTROL; airworthiness; ICAO Annexes; 965/2012.  Aircraft Operations  Aircraft Operations  Aircraft Operations  Aircraft Operations  Aircraft operation for cruise, approach, final approach, missed approach, hodling, PBN, augmented GNSS, aviation charts for IF Flight Training 1  es for improvement of theoretical knowledge in a range of at least PPL(A) of the objects 010 - 090 in accordance with Part FCL. The ghts and navigation flights. This course is intended only for long-term student, who are in integrated pilots training and study all cours (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, desc	aracteristics. Enginaracteristics. Enginaracteristics. Enginaracteristics. Enginaracteristics. Z,ZK ategorisation. Aircross.  Z,ZK ategorisation. Aircross.  Z,ZK ategorisation. Engine	ne control.  3 aft loadings.  4 ity of aircraft  3 nt areas. ope indicator  3 lation (EU)  2 htrol, dual by field PIL  2 nent flying,
thermal cycles, or 21LDA1 Aircraft structural a 21LDA2 Manufacturers resp 21LEIS Basic definition Markings. Signs. M  21LEY1 Air Law; ICAO Do  21LPTY-E  21LPX1 Practical exercise exercises, solo fli  21LPX2 Practical exercise dual exercises, em	Aircraft 1  and conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and conceptual design types - devoted to aeroplane topic Aircraft 2  onsibility, responsibilities of operator and professional supervising. Legislation in area of airworthiness. International and national star structures. Aeroelasticity, Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presure Aerodromes  s. Applicability, Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mararkers. Visual aids for denoting obstacles.  Air Law 1  c 7300; ICAO Doc 7500 and 9626; International Organizations: ICAO, IATA, EASA, EUROCONTROL; airworthiness; ICAO Annexes; 965/2012.  Aircraft Operations  Aircraft Operations  Aircraft operation for cruise, approach, final approach, missed approach, hodling, PBN, augmented GNSS, aviation charts for IF Flight Training 1  es for improvement of theoretical knowledge in a range of at least PPL(A) of the objects 010 - 090 in accordance with Part FCL. The ghts and navigation flights. This course is intended only for long-term student, who are in integrated pilots training and study all cours (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 related to Study field PIL (Professional Pilot) in all three ye	aracteristics. Enginaracteristics. Enginaracteristics. Enginaracteristics. Enginaracteristics. Z,ZK ategorisation. Aircross.  Z,ZK ategorisation. Aircross.  Z,ZK ategorisation. Z,ZK ategorisation.  Z,ZK ategorisation. Z,ZK ategorisation. Z,ZK ategorisation. Z,ZK ategorisation. Z,ZK ategorisation. Z,ZK ategorisation. Z,ZK ategorisation. Z,ZK ategorisation. Aircross. Z,ZK ategorisation. Aircross	ne control.  3 aft loadings.  4 ity of aircraft  3 nt areas. ope indicator  2 trol, dual by field PIL  2 nent flying, all courses
thermal cycles, co 21LDA1 Aircraft structural a 21LDA2 Manufacturers resp 21LEIS Basic definition Markings. Signs. M  21LEY1 Air Law; ICAO Do  21LPTY-E  21LPX1 Practical exercise exercises, solo fli  21LPX2 Practical exercise dual exercises, em	Aircraft 1  Indicate the content of	aracteristics. Engi Z,ZK ategorisation. Aircr ss. Z,ZK dadrds. Static solid mption. Z,ZK rkings of movemer risual approach slo ZK Commission regu ZK R flight KZ basics of flight cor ses related to Stud KZ e basics of instrun training and study KZ edge KZ	ne control.  3 aft loadings.  4 ity of aircraft  3 nt areas. ope indicator  2 trol, dual by field PIL  2 nent flying, all courses
thermal cycles, or 21LDA1 Aircraft structural a  21LDA2 Manufacturers resp  21LEIS Basic definition Markings. Signs. M  21LEY1 Air Law; ICAO Do  21LPTY-E  21LPX1 Practical exercise exercises, solo fli  21LPX2 Practical exercises, err  21LPX3  21LPX4	Aircraft 1  Indicated the construction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics. Aircraft 1  Indicated to Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic Aircraft 2  Onsibility, responsibilities of operator and professional supervising. Legislation in area of airworthiness. International and national star structures. Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presu Aerodromes  S. Applicability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mararkers. 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.  Air Law 1  C 7300; ICAO Doc 7500 and 9626; International Organizations: ICAO, IATA, EASA, EUROCONTROL; airworthiness; ICAO Annexes; 965/2012.  Aircraft Operations  Aircraft Operations  Aircraft operation for cruise, approach, final approach, missed approach, hodling, PBN, augmented GNSS, aviation charts for IF Flight Training 1  es for improvement of theoretical knowledge in a range of at least PPL(A) of the objects 010 - 090 in accordance with Part FCL. The ghts and navigation flights. This course is intended only for long-term student, who are in integrated pilots training and study all cours (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	aracteristics. Engi Z,ZK ategorisation. Aircr ss. Z,ZK dards. Static solid mption. Z,ZK rkings of movemer risual approach slo ZK Commission regu ZK R flight KZ basics of flight cor ses related to Stud KZ e basics of instrun training and study KZ edge KZ edge	ne control.  3 aft loadings.  4 ity of aircraft  3 at areas. ope indicator  2 atrol, dual by field PIL  2 nent flying, all courses  2
thermal cycles, or 21LDA1 Aircraft structural a 21LDA2 Manufacturers resp 21LEIS Basic definition Markings. Signs. M  21LEY1 Air Law; ICAO Do  21LPTY-E  21LPX1 Practical exercise exercises, solo fli  21LPX2 Practical exercise dual exercises, em	Aircraft 2  onstibility, responsibilities of operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics. Turbojet and proplement of requirements, aircraft definitions and carbofan and conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and carbofance Systems of primary and secondary airframe structure. Fatigue strength aircraft structure lifetime presure structures. Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presures at turborates. Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presures at the activative. Aeroelasticity. Inherent and operational and national star structure. Fatigue strength. Aircraft structure. Fatigue strength. Ai	aracteristics. Engi Z,ZK ategorisation. Aircr ss. Z,ZK dards. Static solid mption. Z,ZK rkings of movemer risual approach slo ZK Commission regu ZK R flight KZ basics of flight cor ses related to Stud KZ e basics of instrun training and study KZ edge KZ edge KZ	ne control.  3 aft loadings.  4 ity of aircraft  3 ant areas. ope indicator  2 trol, dual by field PIL  2 nent flying, all courses
thermal cycles, or 21LDA1 Aircraft structural a  21LDA2 Manufacturers resp  21LEIS Basic definition Markings. Signs. M  21LEY1 Air Law; ICAO Do  21LPTY-E  21LPX1 Practical exercise exercises, solo fli  21LPX2 Practical exercise dual exercises, err  21LPX3  21LPX4  21LPX4	Aircraft 2  onstituction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics. Aircraft 1  di conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and care Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic Aircraft 2  onsibility, responsibilities of operator and professional supervising. Legislation in area of airworthiness. International and national star structures. Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presu Aerodromes  s. Applicability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mararkers. 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.  Air Law 1  c 7300; ICAO Doc 7500 and 9626; International Organizations: ICAO, IATA, EASA, EUROCONTROL; airworthiness; ICAO Annexes; 965/2012.  Aircraft Operations  Aircraft Operations  Aircraft Operations  Aircraft Operations  Aircraft Operations  Aircraft Operations  Flight Training 1  es for improvement of theoretical knowledge in a range of at least PPL(A) of the objects 010 - 090 in accordance with Part FCL. The ghts and navigation flights. This course is intended only for long-term student, who are in integrated pilots training and study all cours (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 relevant subjects in accordance with Part FCL. The relevant subjects in accordance with Part FCL. The related to	aracteristics. Engi Z,ZK ategorisation. Aircr ss. Z,ZK dadrds. Static solid mption. Z,ZK rkings of movemer risual approach slo ZK Commission regu ZK R flight KZ basics of flight cor ses related to Stud KZ e basics of instrun training and study KZ edge KZ edge KZ edge KZ edge	ne control.  3 aft loadings.  4 ity of aircraft  3 ant areas. ope indicator  2 antol, dual by field PIL  2 nent flying, all courses  2 2
thermal cycles, or 21LDA1 Aircraft structural a  21LDA2 Manufacturers resp  21LEIS Basic definition Markings. Signs. M  21LEY1 Air Law; ICAO Do  21LPTY-E  21LPX1 Practical exercise exercises, solo fli  21LPX2 Practical exercises, em  21LPX3  21LPX4  21LPX4  21LPX5  21LPX5	Aircraft 1  and conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and conceptual design types - definitions and responsibilities of operator and professional supervising. Legislation in area of airworthiness. International and national star structures. Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presure Aerodromes  S. Applicability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mararkers. 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.  Air Law 1  c 7300; ICAO Doc 7500 and 9626; International Organizations: ICAO, IATA, EASA, EUROCONTROL.; airworthiness; ICAO Annexes; 965/2012.  Aircraft Operations  Aircraft Operation for cruise, approach, final approach, missed approach, hodling, PBN, augmented GNSS, aviation charts for IF  Flight Training 1  es for improvement of theoretical knowledge in a range of at least PPL(A) of the objects 010 - 090 in accordance with Part FCL. The ghts and navigation flights. This course is intended only for long-term student, who are in integrated pilots training and study all cours (Professional Pilot) in all three years.  Flight Training 2  so for improvement of theoretical knowledge and practical examination of progress in professional competence in pilot skills and knowledge in theoretical knowledge and practical examination of progress	aracteristics. Enginaracteristics. Enginaracteristics. Enginaracteristics. Enginaracteristics. ZXK ategorisation. Aircross.  Z,ZK ategorisation. Aircross.  ZK ategorisation. Aircross.  Z,ZK ateg	ne control.  3 aft loadings.  4 ity of aircraft  3 at areas. ope indicator  2 attorn, dual by field PIL  2 nent flying, all courses  2 2  2 3
thermal cycles, or 21LDA1 Aircraft structural a  21LDA2 Manufacturers resp  21LEIS Basic definition Markings. Signs. M  21LEY1 Air Law; ICAO Do  21LPTY-E  21LPX1 Practical exercise exercises, solo fli  21LPX2 Practical exercise, em  21LPX3  21LPX4  21LPX5  21LPX5  21LTP2 The course is focus	Aircraft 2  onstituction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics. Aircraft 1  di conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and care Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic Aircraft 2  onsibility, responsibilities of operator and professional supervising. Legislation in area of airworthiness. International and national star structures. Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presu Aerodromes  s. Applicability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mararkers. 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.  Air Law 1  c 7300; ICAO Doc 7500 and 9626; International Organizations: ICAO, IATA, EASA, EUROCONTROL; airworthiness; ICAO Annexes; 965/2012.  Aircraft Operations  Aircraft Operations  Aircraft Operations  Aircraft Operations  Aircraft Operations  Aircraft Operations  Flight Training 1  es for improvement of theoretical knowledge in a range of at least PPL(A) of the objects 010 - 090 in accordance with Part FCL. The ghts and navigation flights. This course is intended only for long-term student, who are in integrated pilots training and study all cours (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 relevant subjects in accordance with Part FCL. The relevant subjects in accordance with Part FCL. The related to	aracteristics. Engi Z,ZK ategorisation. Aircr ss. Z,ZK dards. Static solid mption. Z,ZK rkings of movemer risual approach slo ZK Commission regu ZK R flight KZ basics of flight cor ses related to Stud KZ e basics of instrun training and study KZ edge KZ edge KZ edge Z,ZK e of EC regulations	ne control.  3 aft loadings.  4 ity of aircraft  3 aft areas. ope indicator  2 aft loadings.  2 aft areas.  3 aft areas.  2 aft areas.  2 aft areas.  3 aft areas.  3 aft areas.  4 aft areas.  3 aft areas.  4 aft areas.  3 aft areas.  4 aft
thermal cycles, or 21LDA1 Aircraft structural a  21LDA2 Manufacturers resp  21LEIS Basic definition Markings. Signs. M  21LEY1 Air Law; ICAO Do  21LPTY-E  21LPX1 Practical exercise exercises, solo fli  21LPX2 Practical exercise, em  21LPX3  21LPX4  21LPX5  21LPX5  21LTP2 The course is focus	Aircraft 1  and conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and conceptual design types - definitions and conceptual design types - definitions and conceptual design and conceptual design and proposed to the problem. Development of requirements, aircraft definitions and conceptual design types - definitions and conceptual design and proposed to the problems. Aircraft structure is requirements, aircraft types - design and proposed to the design and proposed to the problems. Aircraft denoting obstacles.  Air Law 1  c 7300; ICAO Doc 7500 and 9626; International Organizations: ICAO, IATA, EASA, EUROCONTROL; airworthiness; ICAO Annexes; 965/2012.  Aircraft Operations  Aircraft operation for cruise, approach, final approach, missed approach, hodling, PBN, augmented GNSS, aviation charts for IF  Flight Training 1  es for improvement of theoretical knowledge in a range of at least PPL(A) of the objects 010 - 090 in accordance with Part FCL. The ghts and navigation flights. This course is intended only for long-term student, who are in integrated pilots related to Study field PIL (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 l	aracteristics. Engi Z,ZK ategorisation. Aircr ss. Z,ZK dards. Static solid mption. Z,ZK rkings of movemer risual approach slo ZK Commission regu ZK R flight KZ basics of flight cor ses related to Stud KZ e basics of instrun training and study KZ edge KZ edge KZ edge Z,ZK e of EC regulations	ne control.  3 aft loadings.  4 ity of aircraft  3 aft areas. ope indicator  2 aft loading all ation (EU)  2 ant areas.  3 as is analyzed
thermal cycles, or 21LDA1 Aircraft structural a  21LDA2 Manufacturers resp  21LEIS Basic definition Markings. Signs. M  21LEY1 Air Law; ICAO Do  21LPTY-E  21LPX1 Practical exercise exercises, solo fli  21LPX2 Practical exercise, em  21LPX3  21LPX4  21LPX5  21LPX5  21LPX5  21LPX5  21LPX5  21LPX6	onstruction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational charcraft 1  and conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and care Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic Aircraft 2  onsibility, responsibilities of operator and professional supervising. Legislation in area of airworthiness. International and national star structures. Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presu Aerodromes  s. Applicability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Marakers. 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.  Air Law 1  c 7300; ICAO Doc 7500 and 9626; International Organizations: ICAO, IATA, EASA, EUROCONTROL; airworthiness; ICAO Annexes; 965/2012.  Aircraft Operations  Aircraft operations  Aircraft operations  Aircraft operation for cruise, approach, final approach, missed approach, hodling, PBN, augmented GNSS, aviation charts for IF Flight Training 1  es for improvement of theoretical knowledge in a range of at least PPL(A) of the objects 010 - 090 in accordance with Part FCL. The ghts and navigation flights. This course is intended only for long-term student, who are in integrated pilots training and study all cours (Professional Pilot) in all three years.  Flight Training 2  s for improvement of theoretical knowledge in a grape MEP land and IFR from the relevant subjects in accordance with Part FCL. The greency 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 P	aracteristics. Enginaracteristics. Enginaracteristics. Enginaracteristics. Enginaracteristics. ZXK attegorisation. Aircross.  Z,ZK attegorisation. Aircross.  Z,ZK attegorisation. Aircross.  Z,ZK attegorisation. Aircross.  Z,ZK attegorisation solid mption.  Z,ZK attegorisation regulations and study.  KZ attegorisation and study.	ne control.  3 aft loadings.  4 ity of aircraft  3 aft areas. ope indicator  2 aft loadings.  2 aft areas. 2

21MEE1	Meteorology 1	Z,ZK	3
•	and vertical structure of the atmosphere. QNH, QFE, QFF, QNE, density and height measurements. Wind, moisture and adiabatic pro- cloud, fog, haze. Precipitation. Types of air masses, atmospheric fronts. Distribution of pressure, cyclones, anticyclones, non-fronta	l cyclone.	and types of
21MET2 Climatic zones,	Meteorology 2  tropical climatology, meteorological situation of mid-latitudes. Icing, turbulence, wind shear, thunderstorms, tornadoes, flying in the str reducing visibility phenomena. Observation, weather maps, important information for flight planning.	Z,ZK ratosphere, mounta	5 ain areas,
210BN	General Navigation	ZK	5
	de and longitude. Reference systems. Circles on the Earth and distance. Calculations. Time. Magnetism and sirections. Wind and Spe pation computer conversions, TAS, rates. Calculations: 1 in 60 and navigation computer track and GS. Projections. Charts. VFR navigation computer track and oceanic areas.		-
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 ement, 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 Flight planning for VFR flights for small, single- and multi-engine aeroplanes	Z,ZK	3
21PPY1	Operational Procedures 1  Annex 6, PART-OPS, Air operator, Aircraft operation, Operating procedures, Airplane equipment, Flight management, Airspa	Z,ZK	3
21PPY2 Flight document	Operational Procedures 2  ation and manuals, Icing and protection of the aircraft against icing, noise abatement procedures, Abnormal and emergency situation contamination	ZK ns and procedures,	4 , Runway
21PRJ2	Instrumentation 2	ZK	3
Compass, gyrosco	pic instruments (turn indicator, attitude indicator, directional gyro), inertial instruments, recording and monitoring systems, warning sy (autopilot, flight director, autothrust), FMS, flight envelope protection, communication systems, flight computers.		WS), AFCS
	Practical Flight Planning nce 2. fuel planning, PDP, RIF,RCF 3. ATC FPL 4. Preflight procedure and briefing-NOTAM + weather(METAR,SIGMET) 5. Jeppesen ght 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	0	
21PUP1	Instrumentation 1	ZK	3
	on 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 moi monitoring, aerometric instruments (sensors, altimeter, air speed indicator, VSI, ADC).	nitoring, pressurisa	ition system
21RNV	Radionavigation	Z,ZK	4
	nder (VDF), ADF, VOR and Doppler VOR, DME, ILS, MLS, ground ATC radar, weather Radar, SSR and transponder. Radar utilization	for navigation during	
	RNAV) - general philosophy, gauges and equipment, indication and sensors for RNAV, VOR/DME (RNAV). Autopilot and flight director and backups.		
21SBP	Bachelor's Thesis Seminar mation sources. Citation, citation formats. The methodology of writing the thesis. Presentation of results. Formal requirements for the	Z	f thesis
WORK WITH IIIIO	Requirements for journal articles. Publication ethics.	313. I Tesemation of	uicoio.
21SBU1	Bachelor Thesis Seminar 1	Z	1
, ,	riew, applied research, basic research, thesis dealing with design proposals). Working with citation sources (citation sources, citation of the state of the art (standards of research writing). Defining the limitations of the state of the art. Introduction to the these		styles, how
21VFRC	VFR Communication	Z,ZK	4
	s are based on PART FCL, part 090. It defines terms and abbreviations used in VFR communication. Phraseology and procedures in situations.		standard
21VFRT	Theory for VFR Training	Z,ZK	6
	based on PPL(A) theory requirements according to Part-FCL. Lectures cover topics that are necessary to commence the practical particles of the practical par		-
principles of fligh	t, airframe and powerplant, aircraft systems, instrumentation, mass and balance, performance, air law and ATC procedures, meteorol navigation, radionavigation, VFR communication, flight planning and monitoring and human factor.	logy, operational pr	ocedures,
21VL-E	Aircraft Performance	Z,ZK	4
Basic terms of airc	raft performance, basic characteristic speeds, runway characteristics, single and multiengine aircraft performance class B, aircraft per landing performance, after take off and missed approach climb, noise abatement procedures, range of aircraft, drift down, MEL, I		take off and
21X31	Project 1	Z	2
21X32	Project 2	Z	2
21X33	Project 3	Z KZ	2
	Aviation safety and security  f safety and security development in aviation. Modern tools for safety and security management. Research and development of safe a	and secure system	
21Y1BS Unmanned Aviation	Unmanned aircraft systems 1 on Development. Aircraft design. Legislation in force in the Czech Republic. Planning and execution of the flight. Airspace division. Operprocedures. Practical flights.	KZ erational risks and	2 operational
21Y1MP	Matlab for project-oriented study	KZ	2
	ibus is focused on the problem-solving during bachelor's thesis preparation and it is based on students' requests. Individual exercises bles, 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
-	es a comprehensive view of the commercial, operational and transportation activities of air transport companies. It focuses on the organiz their strategy, economic and operational indicators. It introduces students in detail to operational processes and the essentials of transport. a basic view of the economic aspects of air transport.		-
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 manage	ement. Internal and	external
environment of hur	nan resource management. Human resource planning. Search, recruitment and selection of employees. Motivation, evaluation and ren dismissal and redundancies of employees. Education of employees. Planning career management.	nuneration of staff.	Positioning,

21ZKL2	Principles of Flight 2	ZK	3
Static & amp; dynamic longitudinal stability, neutral point, location of centre of gravity, static directional & amp; lateral stability, dynamic directional & amp; lateral stability, control pitch			
(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.			
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.		
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
23X33	Project 3	Z	2

For updated information see <a href="http://bilakniha.cvut.cz/en/FF.html">http://bilakniha.cvut.cz/en/FF.html</a> Generated: day 2025-04-08, time 03:34.