## Study plan

## Name of study plan: Bachelor PIL (EN) 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: 178
Elective courses credits: 2
Sum of credits in the plan: 180

Note on the plan:

Name of the block: Compulsory courses Minimal number of credits of the block: 168

The role of the block: Z

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

Name of the group: 1st Sem. Bachelor Full-Time PIL (EN) 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:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
11CAL1-E	Calculus 1 Ond ej Navrátil, Magdalena Hykšová Magdalena Hykšová Ond ej Navrátil (Gar.)	Z,ZK	7	2P+4C+22B	Z	Z
11LA-E	Linear Algebra Martina Be vá ová Martina Be vá ová (Gar.)	Z,ZK	3	2P+1C+10B	Z	Z
210BN-E	General Navigation Denisa Svobodová, Paul Rousseau Paul Rousseau	ZK	5	4P+0C	Z	Z
21VFRC-E	VFR Communication Milan Kameník Milan Kameník	Z,ZK	4	2P+1C	Z	Z
21VFRT-E	Theory for VFR Training Filip Bart n k, Jakub Kraus Filip Bart n k	Z,ZK	6	4P+4C	Z	Z
11GIE-E	Geometry Šárka Vorá ová <b>Šárka Vorá ová</b> Šárka Vorá ová (Gar.)	KZ	3	2P+2C+12B	Z	Z
15JP1A-E	Foreign Language - English for PIL 1 Marek Tome ek, Dana Boušová, Jitka He manová, Eva Rezlerová, Markéta Musilová, Markéta Vojanová, Lenka Monková Markéta Musilová Marek Tome ek (Gar.)	Z	2	0P+2C	Z	Z

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

11CAL1-E	Calculus 1	Z,ZK	7
Sequence of real numb	ers and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative. Geometric properties of n-	dimensional Eukl	idean space and
Cartesian coordinate sy	stem. Geometric meaning of the differential of functions several real variables, differential calculus of functions of several rea	ıl variables.	
11LA-E	Linear Algebra	Z,ZK	3
Vector spaces (linear co	ombinations, 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.		
21OBN-E	General Navigation	ZK	5
The Earth: latitude and	ongitude. Reference systems. Circles on the Earth and distance. Calculations. Time. Magnetism and sirections. Wind and Sp	eed: Course, hea	ding, track.
Calculations: navigation	computer conversions, TAS, rates. Calculations: 1 in 60 and navigation computer track and GS. Projections. Charts. VFR nav	vigation. Nav Log	preparation and
use. Navigation display.	Navigation in remote and oceanic areas.		
21VFRC-E	VFR Communication	Z,ZK	4
Course contents are ba	sed on PART FCL, part 090. It defines terms and abbreviations used in VFR communication. Phraseology and procedures in	standard and nor	n-standard
situations.			

21VFRT-E 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.

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-E Foreign Language - English for PIL 1

Z 2

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-EN-23/24

Calculus 2

Geometry

Name of the group: 2nd Sem. Bachelor Full-Time PIL (EN) 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 group:

11CAL2-E

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

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

Indefinite integral, Newtonian integral, Riemannian integral of the function of one variable, improper Riemannian integral, Riemannian integral in Rn. Parametric description of regular k-dimensional surfaces in Rn, Riemannian integral over regular surfaces. Line and surface integrals of the second type, Stokes theorems, ordinary differential equations of the first order, linear differential equations with constant coefficients and its systems

11STAT-E

Statistics

Z,ZK

4

Definition of probability, random variable and its description, known distributions, random vector, function of random variable. Methods of point estimation. Testing of statistical hypothesis.

Regression and correlation, linear regression, correlation coefficient, coefficient of determination, the general linear model, statistical inference in linear regression, analysis of variance, multiple regression, the use of matrices in regression.

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 passenger, baggage and crew, determination

of load of aircraft, flight documentation - loadsheet, trimsheet, securing of load, determination of centre of gravity, influence of centre of gravity position on aircarft performance.

21LDA1-E Aircraft 1

Z.ZK 3

21LDA1-E | Aircraft 1 | Z,ZK | 3
Aircraft structural and conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and categorisation. Aircraft loadings.

Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topics.

21LEY1-E | Air Law 1 | ZK | 3

Air Law; ICAO Doc 7300; ICAO Doc 7500 and 9626; International Organizations: ICAO, IATA, EASA, EUROCONTROL; airworthiness; ICAO Annexes; Commission regulation (EU) 965/2012

21ZYT1-E 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

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.

15JP2A-E Foreign Language - English for PIL 2 KZ 3

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.

21CON-E Navigation Calculations KZ 2

Projection of maps: times - UTC, Zulu, LT: positioning: suprise and supset: distance calculation; projection; maps and symbols; declination; speed; wind components and wind drift

Projection of maps; times - UTC, Zulu, LT; positioning; sunrise and sunset; distance calculation; projection; maps and symbols; declination; speed; wind components and wind drift; VFR route selection; position plotting.

21LPX1-E Flight Training 1

Practical exercises for improvement of theoretical knowledge in a range of at least PPL(A) of the objects 010 - 090 in accordance with Part FCL. The basics of flight control, dual exercises, solo flights and navigation flights. This course is intended only for long-term student, who are in integrated pilots training and study all courses related to Study field PIL (Professional Pilot) in all three years.

Aviation English for Professional Pilot 1

Exercises focused on continuous reading specialized texts, vocabulary extension of technical English, terminology in the sphere of aircraft construction, principles of flight, aircraft engines, instruments and systems, analyzes relating to topics of air traffic, operational procedures, relevant legislation and operators procedures.

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

Name of the group: 3rd Sem. Bachelor Full-Time PIL (EN) 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.

and their features; terminology.

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-E	Physics Tomáš Vít , Antonio Cammarata, Jana Kuklová, Zuzana Malá Jana Kuklová Pavel Demo (Gar.)	Z,ZK	5	2P+2C+18B	B Z	Z
21LAP2-E	Aviation English for Professional Pilot 2 Filip Havrda, Lukáš Zibner, Zden k Ove ka	Z,ZK	3	0P+4C	Z	Z
21LDA2-E	Aircraft 2 Max Chopart, Michal erný, Kiyofolo Benjamin Ouattara Kiyofolo Benjamin Ouattara	Z,ZK	4	2P+1C	Z	Z
21LPTY-E	Aircraft Operations  Ladislav Capoušek Ladislav Capoušek	ZK	2	2P+0C	Z	Z
21PUP1-E	Instrumentation 1 Pavel Hovorka	ZK	3	2P+0C	Z	Z
21RNV-E	Radionavigation Jan Žižka <b>Jan Žižka</b>	Z,ZK	4	3P+1C	Z	Z
21VL-E	Aircraft Performance Denisa Svobodová, Anna Polánecká Anna Polánecká	Z,ZK	4	2P+2C	Z	Z
21LPX2-E	Flight Training 2  Jakub Hospodka, Iveta Kameníková, Jakub Charezinski, Roman Matyáš Iveta Kameníková	KZ	2	0P+1C	Z	Z
15JZ3A-E	Foreign Language - English 3  Dana Boušová, Jitka He manová, Eva Rezlerová, Markéta Musilová, Markéta Vojanová, Lenka Monková, Peter Morpuss, Marie Michlová, Jan Feit Marek Tome ek (Gar.)	Z	3	0P+4C	Z	Z

Characteristics from 2024/25	of the courses of this group of Study Plan: Code=3S-BP-PIL-EN-24/25 Name=3rd Sem. Bache	elor Full-Time	e PIL (EN)
11FYZ-E	Physics	Z,ZK	5
Kinematics, particle	dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodynamics.	,	1
21LAP2-E	Aviation English for Professional Pilot 2	Z,ZK	3
Exercises focused or airlines.	repetition and smoother communication within VFR and IFR communication, communication with technical staff at the airport,	a fluent conversa	ition within the
21LDA2-E	Aircraft 2	Z,ZK	4
	nsibility, responsibilities of operator and professional supervising. Legislation in area of airworthiness. International and national s city. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presumption.	standards. Static s	solidity of aircraft
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-E	Instrumentation 1	ZK	3
Basic classification at integrated instrument	nd construction of flight instruments, electric systems, power plant sensors and instruments, airframe sensors and instruments, me systems.	asurement of air	data parameters,
21RNV-E	Radionavigation	Z,ZK	4
Ground direction find	er (VDF), ADF, VOR and Doppler VOR, DME, ILS, MLS, ground ATC radar, weather Radar, SSR and transponder. Radar utilizat	ion for navigation	during the flight.
Area navigation (RN/ and backups.	AV) - general philosophy, gauges and equipment, indication and sensors for RNAV, VOR/DME (RNAV). Autopilot and flight direc	tor. Satellite navig	jation, systems
21VL-E	Aircraft Performance	Z,ZK	4
	t performance, basic characteristic speeds, runway characteristics, single and multiengine aircraft performance class B, aircraft after take off and missed approach climb, noise abatement procedures, range of aircraft, drift down, MEL, ETOPS.	performance clas	s A, take off and
21LPX2-E	Flight Training 2	KZ	2
Practical exercises for	r improvement of theoretical knowledge in a range MEP land and IFR from the relevant subjects in accordance with Part FCL.	he basics of insti	rument flying,
· ·	gency procedures, descents and navigation flights. This course is intended only for long-term student, who are in integrated pilc PIL (Professional Pilot) in all three years.	ts training and stu	udy all courses
15JZ3A-E	Foreign Language - English 3	Z	3
Grammar structure a	nd stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Facult	y'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

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

Name of the group: 4th Sem. Bachelor Full-Time PIL (EN) 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-E	Electromagnetic Field and Optics Tomáš Vít	Z,ZK	4	2P+1C	L	Z
21AFL1-E	Advanced Flying 1	Z,ZK	3	2P+1C	L	Z
21MEE1-E	Meteorology 1 Iveta Kameníková	Z,ZK	3	2P+2C	L	Z
21PML-E	Flight Planning and Monitoring  Anna Polánecká	Z,ZK	3	2P+2C	L	Z
21PRJ2-E	Instrumentation 2 Pavel Hovorka	ZK	3	2P+0C	L,Z	Z
14AP-E	Algorithm and Programming	KZ	4	2P+2C	L	Z
21IFRC-E	IFR Communication Milan Kameník	KZ	2	1P+1C	L	Z
21LPX3-E	Flight Training 3	KZ	2	0P+1C	L	Z
21SBU1-E	Bachelor Thesis Seminar 1 Lenka Hanáková	Z	1	1P+0C	L	Z
15JZ4A-E	Foreign Language - English 4  Marek Tome ek (Gar.)	Z,ZK	3	0P+4C	L	Z

## Characteristics of the courses of this group of Study Plan: Code=4S-BP-PIL-EN-24/25 Name=4th Sem. Bachelor Full-Time PIL (EN) from 2024/25

11EMO-E	Electromagnetic Field and Optics	Z,ZK	4
	c current. Magnetic field. Electromagnetic field. Optics. Basics of solid-state physics.	2,21	•
21AFL1-E	Advanced Flying 1	Z,ZK	3
This course supple	nents Learning objectives laid down in Commission Regulation (EU) No 1178/2011. Instrument flying introduction, threat a		ocedures for
nstrument departu	es, enroute flight, holdings and arrivals, instrument approaches, performance based navigation, weather consideration, flig	ght planning and monitoring	ng, effective
oriefings, phraseolo	gy differences, lost communication procedures, CFIT prevention, decompresion		
21MEE1-E	Meteorology 1	Z,ZK	3
Composition, size a	nd vertical structure of the atmosphere. QNH, QFE, QFF, QNE, density and height measurements. Wind, moisture and adi	iabatic processes. Creatin	g and types
loud, fog, haze. Pr	ecipitation. Types of air masses, atmospheric fronts. Distribution of pressure, cyclones, anticyclones, non-frontal cyclone.		
21PML-E	Flight Planning and Monitoring	Z,ZK	3
Flight planning for \	FR flights for small, single- and multi-engine aeroplanes		
21PRJ2-E	Instrumentation 2	ZK	3
Compass, gyroscop	ic instruments (turn indicator, attitude indicator, directional gyro), inertial instruments, recording and monitoring systems, v	varning systems (TCAS, 0	SPWS), AFC
autopilot, flight dire	ctor, autothrust), FMS, flight envelope protection, communication systems, flight computers		
14AP-E	Algorithm and Programming	KZ	4
Computers, data re	presentation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, sea	rching and sorting algorith	nms, abstrac
data types (set, tup	ole, dictionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with	files, instroduction into ob	ject oriente
orogramming			
21IFRC-E	IFR Communication	KZ	2
Definitions, Terms,	Abbreviations, Q-codes, Transport message categories, Transmission technique,, Transmission of letters, numbers, time and	d symbols, Standard word	ls and phras
or IFR flights, Rada	r procedural phraseology, Standard phraseology and Morse code, Practical IFR radiotelephony procedures in normal and	emergency situations.	
21LPX3-E	Flight Training 3	KZ	2
Deepening of theor	etical knowledge and practical examination of progress in professional competence in pilot skills and knowledge		
21SBU1-E	Bachelor Thesis Seminar 1	Z	1
ypes of thesis (rev	ew, applied research, basic research, thesis dealing with design proposals). Working with citation sources (citation sources	s, citation databases, citat	ion styles, h
o cite). Analyzing t	ne state of the art (standards of research writing). Defining the limitations of the state of the art. Introduction to the thesis m	nethodology.	
I5JZ4A-E		7 71/	
	Foreign Language - English 4	Z,ZK	3
3rammar structure	Foreign Language - English 4 and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the	1 , 1	-

Code of the group: 5S-BP-PIL-EN-25/26

Name of the group: 5th Sem. Bachelor Full-Time PIL (EN) from 2025/26 Requirement credits in the group: In this group you have to gain 24 credits

Requirement courses in the group: In this group you have to complete 8 courses

Credits in the group: 24

and their features; terminology.

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
21LEY2-E	Air Law 2 Hamidreza Shoaee	ZK	3	3P+0C	Z	Z
21LILE-E	Human Factors in Aviation Lenka Hanáková, Boris Oniš enko Boris Oniš enko	KZ	3	4P+0C	Z	Z
21MET2-E	Meteorology 2 Iveta Kameniková Iveta Kameniková	Z,ZK	5	2P+2C	Z	Z
21PPY1-E	Operational Procedures 1  Ladislav Capoušek Ladislav Capoušek	Z,ZK	3	2P+1C	Z	Z
21PRKP-E	Practical Flight Planning Jakub Hospodka, Ota Hajzler Ota Hajzler	Z,ZK	4	2P+2C	Z	Z
21ZYT2-E	Principles of Flight 2 Vladimír Machula Vladimír Machula	Z,ZK	3	2P+1C	Z	Z
21LPX4-E	Flight Training 4 Jakub Hospodka, Iveta Kameníková, Jakub Charezinski, Roman Matyáš Iveta Kameníková	KZ	2	0P+1C	Z	Z
21SBU2-E	Bachelor Thesis Seminar 2 Lenka Hanáková	Z	1	1P+0C	Z	Z

# Characteristics of the courses of this group of Study Plan: Code=5S-BP-PIL-EN-25/26 Name=5th Sem. Bachelor Full-Time PIL (EN) from 2025/26

21LEY2-E	Air Law 2	ZK	3
The course is focused of	n the issue of commercial commercial air transport in accordance with applicable European legislation. Within the course, the is	ssue of EC regula	tions is analyzed
in detail File no. 965/201	12, regulation no. 1321/2014 and ICAO Annexes, which significantly affect the form, method and structure of commercial air t	ransport and tran	sportation.
21LILE-E	Human Factors in Aviation	KZ	3
Human factors in aviation	on. Breathing, atmosphere. Heart and circulation. Radiation. Human sensory organs, nervous system. Vision, hearing, illusion	s. Health and hyg	iene, fatigue,
wakefulness and sleep.	Information processing, human error. Cockpit management. Behaviour and workload. Automation. Core competencies.		
21MET2-E	Meteorology 2	Z,ZK	5
Climatic zones, tropical	climatology, meteorological situation of mid-latitudes. Icing, turbulence, wind shear, thunderstorms, tornadoes, flying in the si	tratosphere, mour	ntain areas,
reducing visibility pheno	mena. Observation, weather maps, important information for flight planning.		
21PPY1-E	Operational Procedures 1	Z,ZK	3
Annex 6, PART-OPS, Ai	r operator, Aircraft operation, Operating procedures, Airplane equipment, Flight management, Airspace		
21PRKP-E	Practical Flight Planning	Z,ZK	4
1. mass and balance 2.	fuel planning, PDP, RIF,RCF 3. ATC FPL 4. Preflight procedure and briefing-NOTAM + weather(METAR,SIGMET) 5. Jeppes	en charts 6. VFR	flight planning-
theory 7. VFR flight plan	ining- ICAO mapa, softwary 8. IFR flight planning- theory 9. PBN- RNAV, RNP 10. IFR flight planning- softwary 11. MRJT- OF	P 12. ETOPS a N	IAT HLA 13.
PET, PSR, PNR 14. pra	ctical VFR a IFR flight planning		
21ZYT2-E	Principles of Flight 2	Z,ZK	3
Ways of producing thrus	it, propeller, jet propulsion, thrust and momentum, propulsion efficiency, aerodynamics of fixed and variable pitch propeller, pro	opeller operation i	modes, propeller
airstream effect, gyrosc	opic effect, balance of forces in horizontal flight, glide and landing, performances, take off an climb, acceleration, positive loa	d, manoevures, st	ability and
controllability, transsonic	c speeds.		
21LPX4-E	Flight Training 4	KZ	2
Deepening of theoretical	Il knowledge and practical examination of progress in professional competence in pilot skills and knowledge		
21SBU2-E	Bachelor Thesis Seminar 2	Z	1
Methodology of thesis w	riting (introduction, analysis of the current state, specification of the problem, objectives and hypotheses). Definition of mate	rials and methods	, approach to
obtaining results, preser	ntation and discussion of results, formulation of thesis conclusions. Basics of LaTeX, working with LaTeX and Word template.		

Code of the group: 6S-BP-PIL-EN-25/26

Name of the group: 6th Sem. Bachelor Full-Time PIL (EN) from 2025/26

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
11MSP-E	Modeling of Systems and Processes  Jana Kuklová	Z,ZK	4	2P+2C	L	Z
21ELDO-E	Air Transport Economy	Z,ZK	3	3P+1C	L	Z
21KPSL-E	Communication and Surveillance Systems in Aviation	ZK	3	2P+0C	L	Z
21LCM-E	Aircraft Engines	Z,ZK	3	2P+1C	L	Z
21LEIS-E	Aerodromes Ladislav Capoušek	Z,ZK	3	2P+1C	L	Z
21PKL2-E	Advanced Flying 2	ZK	2	2P+0C	L,Z	Z

21PRY2-E	Operational Procedures 2	ZK	3	3P+0C	L	Z
21KSA-E	KSA Assessment	KZ	2	0P+2C	L	Z
21LPX5-E	Flight Training 5	KZ	2	0P+1C	L	Z
21LVIP-E	MCC - Multicrew Cooperation	KZ	2	2P+1C	L	Z
21SBU3-E	Bachelor Thesis Seminar 3	Z	1	1P+0C	L	Z

# Characteristics of the courses of this group of Study Plan: Code=6S-BP-PIL-EN-25/26 Name=6th Sem. Bachelor Full-Time PIL (EN) from 2025/26

11MSP-E Modeling of Systems and Processes	Z,ZK	4
Mathematical methods and algorithms as a basis for system analysis. Methods for modelling and evaluating the systems in continuous and of	liscrete time domain. Lapl	ace transform,
z-transform, and the recursive algorithms in solution of differential and difference equations, as an instrument for system description. Practical	al use of technical computi	ng environment
(MATLAB).		
21ELDO-E Air Transport Economy	Z,ZK	3
Economic terminology used in air transport. Basic microeconomic laws. Division of the economic disciplines. Economy carrier. Economic indicate the conomic disciplines.	cators in the management	of air transport.
Business activities in air transport.		
21KPSL-E Communication and Surveillance Systems in Aviation	ZK	3
The course acquaints students with communication and surveillance systems both from the perspective of the air segment (aircraft systems)	and from the perspective	of ground
infrastructure (ground systems), which together create the necessary prerequisites for ensuring safe, efficient and economical air transport.		
21LCM-E Aircraft Engines	Z,ZK	3
Aircraft piston engine, theoretical background, operational characteristics and construction schemes. Propellers, operational characteristics.	Turbine engine, theoretica	l background,
thermal cycles, construction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their oper	ational characteristics. En	gine control.
21LEIS-E Aerodromes	Z,ZK	3
Basic definitions. Applicability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopw	ay. Markings of movemen	t areas.
Markings. Signs. Markers. Visual aids for denoting obstacles. Obstacle restriction, removal. Visual aids for navigation, lights, approach lighting	systems. Visual approach	slope indicator
systems. Runway lights. Taxiway lights. Visual aids for denoting obstacles.		
21PKL2-E Advanced Flying 2	ZK	2
Learning objectives are based on requirements laid down in Commission Regulation (EU) No 1178/2011, subjects 081 and 100. Multi engine	e aircraft and jet aircraft ch	aracteristics,
energy management, stabilized approach and landing errors, jet - performance - engine out flight, jet - handling - engine out flight go around	, UPRT, volcanic ash, cold	weather
operations, operation manuals, MEL procedures and deviations, flight time limitation		
21PRY2-E Operational Procedures 2	ZK	3
Flight documentation and manuals, Icing and protection of the aircraft against icing, noise abatement procedures, Abnormal and emergency	situations and procedures	s, Runway
contamination		
21KSA-E KSA Assessment	KZ	2
Communication. Management of flight path. Automation of flight. Leadership and teamwork. Problem solving. Decision making. Situation awa	rness. Workload manager	ment. Upset
preventation and recovery training. Mental math.		
21LPX5-E Flight Training 5	KZ	2
Deepening of theoretical knowledge and practical examination of progress in professional competence in pilot skills and knowledge	1 1	
21LVIP-E MCC - Multicrew Cooperation	KZ	2
Flight safety analysis in relation to human factor. MCC - basic principles, phases and methods within the area of air transport. CRM - leadershi	p, situational awareness, o	decision making
process, communication, effect of stress to the multi-crew performance, standard operational procedures, automation.		J
21SBU3-E Bachelor Thesis Seminar 3	Z	1
Formal and graphic design of the thesis. Data collection and presentation, basic statistical reasoning, validation of results and designs. Achie	eving the objectives of the	thesis and
evaluation of hypothesis tests. Preparation of the presentation, principles of presentation of the thesis.	<b>,</b> , , , , , , , , , , , , , , , , , ,	

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-EN-25/26

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

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
11X32P-E	Project 2 PIL-EN	Z	2	0P+1C	Z	ZP
16X31-E	Project 1	Z	2	0P+1C	L	ZP
17X31-E	Project 1	Z	2	0P+1C	L	ZP
18X31-E	Project 1	Z	2	0P+1C	L	ZP
20X31-E	Project 1	Z	2	0P+1C	L	ZP
21X31-E	Project 1	Z	2	0P+1C	L	ZP

22X31-E	Project 1	Z	2	0P+1C	L	ZP
12X32P-E	Project 2 PIL-EN	Z	2	0P+1C	Z	ZP
14X32P-E	Project 2 PIL-EN	Z	2	0P+1C	Z	ZP
15X32P-E	Project 2 PIL-EN	Z	2	0P+1C	Z	ZP
16X32P-E	Project 2 PIL-EN	Z	2	0P+1C	Z	ZP
17X32P-E	Project 2 PIL-EN	Z	2	0P+1C	Z	ZP
18X32P-E	Project 2 PIL-EN	Z	2	0P+1C	Z	ZP
20X32P-E	Project 2 PIL-EN	Z	2	0P+1C	Z	ZP
21X32P-E	Project 2 PIL-EN	Z	2	0P+1C	Z	ZP
22X32P-E	Project 2 PIL-EN	Z	2	0P+1C	Z	ZP
16X33-E	Project 3	Z	2	0P+1C	L	ZP
17X33-E	Project 3	Z	2	0P+1C	L	ZP
18X33-E	Project 3	Z	2	0P+1C	L	ZP
20X33-E	Project 3	Z	2	0P+1C	L	ZP
21X33-E	Project 3	Z	2	0P+1C	L	ZP
22X33-E	Project 3	Z	2	0P+1C	L	ZP
11X31-E	Project 1	Z	2	0P+1C	L	ZP
15X31-E	Project 1	Z	2	0P+1C	L	ZP
14X31-E	Project 1	Z	2	0P+1C	L	ZP
12X31-E	Project 1	Z	2	0P+1C	L	ZP
12X33-E	Project 3	Z	2	0P+1C	L	ZP
14X33-E	Project 3	Z	2	0P+1C	L	ZP
11X33-E	Project 3	Z	2	0P+1C	L	ZP
15X33-E	Project 3	Z	2	0P+1C	L	ZP

Characteristics of the courses of this group of Study Plan: Code=X1-BP-PIL-EN-25/26 Name=Research Groups Bachelor Full-Time PIL (EN) from 2025/26

11X32P-E	Project 2 PIL-EN	Z	2
16X31-E	Project 1	Z	2
17X31-E	Project 1	Z	2
18X31-E	Project 1	Z	2
20X31-E	Project 1	Z	2
21X31-E	Project 1	Z	2
22X31-E	Project 1	Z	2
12X32P-E	Project 2 PIL-EN	Z	2
14X32P-E	Project 2 PIL-EN	Z	2
15X32P-E	Project 2 PIL-EN	Z	2
16X32P-E	Project 2 PIL-EN	Z	2
17X32P-E	Project 2 PIL-EN	Z	2
18X32P-E	Project 2 PIL-EN	Z	2
20X32P-E	Project 2 PIL-EN	Z	2
21X32P-E	Project 2 PIL-EN	Z	2
22X32P-E	Project 2 PIL-EN	Z	2
16X33-E	Project 3	Z	2
17X33-E	Project 3	Z	2
18X33-E	Project 3	Z	2
20X33-E	Project 3	Z	2
21X33-E	Project 3	Z	2
22X33-E	Project 3	Z	2
11X31-E	Project 1	Z	2
15X31-E	Project 1	Z	2
14X31-E	Project 1	Z	2
12X31-E	Project 1	Z	2
12X33-E	Project 3	Z	2
14X33-E	Project 3	Z	2
11X33-E	Project 3	Z	2
15X33-E	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-EN-25/26

Name of the group: Comp. Sel. Courses Bachelor Full-Time PIL (EN) from 2025/26

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 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
15Y1ZV-E	East-West dichotomy: Prelude to the Cold War Marie Michlová Marie Michlová (Gar.)	KZ	2	2P+0C	Z	PV
21Y1MP-E	Matlab for project-oriented study Lenka Hanáková, Vladimír Socha Vladimír Socha Vladimír Socha (Gar.)	KZ	2	2P+0C	Z	PV
21Y1OH-E	Airline Business and Operations Ladislav Capoušek, Peter Vittek, Peter Olexa Peter Olexa Peter Vittek (Gar.)	KZ	2	2P+0C	Z	PV
15Y1BO-E	Work Safety and Health Protection in Transportation	KZ	2	2P+0C	L	PV
15Y1HL-E	History of Civil Aviation	KZ	2	2P+0C	L	PV
17Y1LL-E	Logistics of Passenger and Freight Air Transport	KZ	2	2P+0C	L	PV
18Y1MT-E	Engineering Materials Petr Koudelka (Gar.)	KZ	2	2P+0C	L	PV
18Y1PD-E	Computer Simulations in Transportation	KZ	2	2P+0C	L	PV
18Y1PS-E	Computer Simulations in Mechanics	KZ	2	2P+0C	L	PV
21Y1BC-E	Aviation safety and security	KZ	2	2P+0C	L	PV
21Y1BS-E	Unmanned aircraft systems 1	KZ	2	2P+0C	L	PV
21Y1RZ-E	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 Patrik Horaž ovský (Gar.)	KZ	2	2P+0C		PV

# Characteristics of the courses of this group of Study Plan: Code=Y1-BP-PIL-EN-25/26 Name=Comp. Sel. Courses Bachelor Full-Time

15Y1ZV-E	East-West dichotomy: Prelude to the Cold War	KZ	2
Historical prologue,	evolution of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones ar	nd continuity of the interna	itional relation
in the end of 19th ce	ntury and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological prog	gress, the causes and cor	sequences.
Economic and finance	cial history. Social changes. Discussions on texts, sources.		
21Y1MP-E	Matlab for project-oriented study	KZ	2
The subject's syllabu	is is focused on the problem-solving during bachelor's thesis preparation and it is based on students' requests. Individual	exercises will be prepare	d according to
particular examples,	based on actual students' needs and suggestions. The subject will have a flexible form, which is expected to bring an imp	provement of students' Ma	ıtlab skills.
21Y1OH-E	Airline Business and Operations	KZ	2
The course provides	a comprehensive view of the commercial, operational and transportation activities of air transport companies. It focuses on the	ne organizational structure	of companies
various aspects of th	eir strategy, economic and operational indicators. It introduces students in detail to operational processes and the essentials	s of transportation proces	ses. It provide
a basic view of the e	conomic aspects of air transport.		
15Y1BO-E	Work Safety and Health Protection in Transportation	KZ	2
Fundamental legisla	tive, definition of terms, risks and possible health damage, working conditions and health protection with focus on transpo	rtation. Health protection	programmes,
health insurance of h	nome and foreign business trips, statistics, working practice.		
15Y1HL-E	History of Civil Aviation	KZ	2
Aeronautics. Beginn	ings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of airports in the Czech Republic. World ai	rports. Airlines of the wor	ld. Helicopters
004 : 1 =	our evictors. Classic are of eviction. Colden are of civil eviction. Supersonic flying, Modern are of civil eviction. Elving in th	o world	
CSA airplanes. Fam	ous aviators. Classic era of aviation. Golden era of civil aviation. Supersonic flying. Modern era of civil aviation. Flying in th	ie woria.	
	Logistics of Passenger and Freight Air Transport	KZ	2
17Y1LL-E		KZ	_
17Y1LL-E Logistics airline pass	Logistics of Passenger and Freight Air Transport	KZ	_
17Y1LL-E Logistics airline pass air cargo. Information	Logistics of Passenger and Freight Air Transport senger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. A	KZ	_
17Y1LL-E Logistics airline pass air cargo. Information 18Y1MT-E	Logistics of Passenger and Freight Air Transport senger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. An systems in air transport. Global distribution systems.	Aerial transport process p	assengers an
17Y1LL-E Logistics airline pass air cargo. Information 18Y1MT-E Systematic overview	Logistics of Passenger and Freight Air Transport senger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. An systems in air transport. Global distribution systems.  Engineering Materials	Aerial transport process p  KZ  KZ  where and composites, at	assengers an
17Y1LL-E Logistics airline pass air cargo. Information 18Y1MT-E Systematic overview to biological materia	Logistics of Passenger and Freight Air Transport senger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. An systems in air transport. Global distribution systems.  Engineering Materials of main classes of materials used in technical design. In addition to main classes of materials, i. e. metals, ceramics, poly	Aerial transport process p  KZ  KZ  where and composites, at	assengers an
17Y1LL-E Logistics airline pass air cargo. Information 18Y1MT-E Systematic overview to biological materia 18Y1PD-E	Logistics of Passenger and Freight Air Transport senger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. An systems in air transport. Global distribution systems.  Engineering Materials of main classes of materials used in technical design. In addition to main classes of materials, i. e. metals, ceramics, poly is and to biomimetics. Integral approach to material selection process is also demonstrated based on so called Ashby's se	KZ Aerial transport process p  KZ  mers and composites, at election charts.  KZ	2 tention is paid
17Y1LL-E Logistics airline pass air cargo. Information 18Y1MT-E Systematic overview to biological materia 18Y1PD-E Principles and overv	Logistics of Passenger and Freight Air Transport senger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. An systems in air transport. Global distribution systems.  Engineering Materials of main classes of materials used in technical design. In addition to main classes of materials, i. e. metals, ceramics, poly is and to biomimetics. Integral approach to material selection process is also demonstrated based on so called Ashby's selection process.  Computer Simulations in Transportation	KZ Aerial transport process p  KZ  Vermers and composites, at election charts.  KZ  del development and ada	2 tention is paid
17Y1LL-E Logistics airline pass air cargo. Information 18Y1MT-E Systematic overview to biological materia 18Y1PD-E Principles and overview geometry from other	Logistics of Passenger and Freight Air Transport senger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. An systems in air transport. Global distribution systems.  Engineering Materials of main classes of materials used in technical design. In addition to main classes of materials, i. e. metals, ceramics, poly is and to biomimetics. Integral approach to material selection process is also demonstrated based on so called Ashby's selection process.  Computer Simulations in Transportation iew of programs for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric models.	KZ Aerial transport process p  KZ  Vermers and composites, at election charts.  KZ  del development and ada	2 tention is paid
17Y1LL-E Logistics airline pass air cargo. Information 18Y1MT-E Systematic overview to biological materia 18Y1PD-E Principles and overview geometry from other	Logistics of Passenger and Freight Air Transport senger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. An systems in air transport. Global distribution systems.  Engineering Materials of main classes of materials used in technical design. In addition to main classes of materials, i. e. metals, ceramics, poly is and to biomimetics. Integral approach to material selection process is also demonstrated based on so called Ashby's sel  Computer Simulations in Transportation iew of programs for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric mode CAE systems. Assignment of material properties. The types of elements and their use. Discretization of solid model. Bour	KZ Aerial transport process p  KZ  Vermers and composites, at election charts.  KZ  del development and ada	2 tention is paid

load. Basic tasks of structural and modal analysis. Introduction to complex nonlinear problems.

21Y1BC-E	Aviation safety and security	KZ	2
History of safety and se	curity development in aviation. Modern tools for safety and security management. Research and development of safe and se	cure systems.	
21Y1BS-E	Unmanned aircraft systems 1	KZ	2
Unmanned Aviation Dev	velopment. Aircraft design. Legislation in force in the Czech Republic. Planning and execution of the flight. Airspace division.	Operational risks	and operational
procedures. Practical flie	abts		
p	grid.		
21Y1RZ-E	Human Resources Management	KZ	2
21Y1RZ-E			2 nd external
21Y1RZ-E The position of human r	Human Resources Management	ement. Internal ar	
21Y1RZ-E The position of human renvironment	Human Resources Management esources in the organization and related disciplines file. Substance, importance and challenges of human resources manager	ement. Internal ar	

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-EN

Name of the group: Bachelor Full-Time PIL (EN) 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-E	Seminar of Electromagnetic Field and Optics Tomáš Vít	Z	0	0P+2C	L	V
11SCFZ-E	Seminar of Physics Tomáš Vít , Antonio Cammarata, Jana Kuklová, Zuzana Malá Tomáš Vít Tomáš Vít (Gar.)	Z	0	0P+2C	Z	V

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

		1= (=: 1) 1010	
11SEMO-E	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-E	Seminar of Physics	Z	0
Solving problems on kir	iematics, 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-E	Calculus 1	Z,ZK	7
Sequence of real n	umbers and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative. Geometric properties of n-din	nensional Euklidea	n space and
Cartesia	an coordinate system. Geometric meaning of the differential of functions several real variables, differential calculus of functions of se	veral real variables	•
11CAL2-E	Calculus 2	Z,ZK	5
Indefinite integral,	Newtonian integral, Riemannian integral of the function of one variable, improper Riemannian integral, Riemannian integral in Rn. Pa	rametric descriptio	n of regular
k-dimensional sur	rfaces in Rn, Riemannian integral over regular surfaces. Line and surface integrals of the second type, Stokes theorems, ordinary dif	ferential equations	of the first
	order, linear differential equations with constant coefficients and its systems		
11EMO-E	Electromagnetic Field and Optics	Z,ZK	4
	Electric field. Electric current. Magnetic field. Electromagnetic field. Optics. Basics of solid-state physics.		l e
11FYZ-E	Physics	Z,ZK	5
	Kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodynamics.		ı
11GIE-E	Geometry	KZ	3
Differential geome	try of curves - parameterization, the arc of the curve, torsion and curvature, Frenet`s trihedron. Kinematics - a curve as a trajectory of	of the motion, the v	elocity, and
	acceleration of a particle moving on a curved path.		
11LA-E	Linear Algebra	Z,ZK	3
Vector spaces (line	ar combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and the	ir solvability. Deteri	minants and
	their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classificat	ion.	
11MSP-E	Modeling of Systems and Processes	Z,ZK	4
Mathematical meth	nods and algorithms as a basis for system analysis. Methods for modelling and evaluating the systems in continuous and discrete tin	ne domain. Laplace	transform,
z-transform, and th	e recursive algorithms in solution of differential and difference equations, as an instrument for system description. Practical use of techniques	chnical computing	environment
	(MATLAB).		

	Seminar of Physics	Z	0
	Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermody		
11SEMO-E	Seminar of Electromagnetic Field and Optics	Z	0
11STAT-E	Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.  Statistics	Z,ZK	4
	ility, random variable and its description, known distributions, random vector, function of random variable. Methods of point estimation. T		
	relation, linear regression, correlation coefficient, coefficient of determination, the general linear model, statistical inference in linear re		
	multiple regression, the use of matrices in regression.		
11X31-E	Project 1	Z	2
11X32P-E	Project 2 PIL-EN	Z	2
11X33-E	Project 3	Z	2
12X31-E	Project 1	Z	2
12X32P-E	Project 2 PIL-EN	Z	2
12X33-E	Project 3	Z	2
14AP-E	Algorithm and Programming	KZ	4
· ·	epresentation, algorithms (conditions, loops), high level programming languages, introduction to Python language, lists, searching an ople, dictionary), regular expressions, libraries to process date and time, set arrays, functions and procedures, working with files, inst		
data types (set, tu	programming	iroduction into obje	ct offerfied
14X31-E	Project 1	Z	2
14X32P-E	Project 2 PIL-EN	Z	2
14X33-E	Project 3	Z	2
15JP1A-E	Foreign Language - English for PIL 1	Z	2
	nguage skills within spoken and written form of the language with the focus on aviation English. Practice of comprehension of auther	I	l .
pronunciation and	fluency of spoken language. Aviation phraseology in combination with general English. Revision and improvement of grammar structures of the structure of the st	tures, syntax and v	ocabulary.
	Topics related to air transport and occupation of pilot and air staff.		
15JP2A-E	Foreign Language - English for PIL 2	KZ	3
	nguage skills within spoken and written form of the language with the focus on aviation English. Practice of comprehension of auther fluency of spoken language. Aviation phraseology in combination with general English. Revision and improvement of grammar struc	-	
pronunciation and	Topics related to air transport and occupation of pilot and air staff.	iules, sylliax aliu v	/ocabulal y.
15JZ3A-E	Foreign Language - English 3	Z	3
	and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Faculty's	fields of study pilo	t. Focus on
improvement in per	ceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral ar	nd written form. Ted	chnical texts
	and their features; terminology.		_
15JZ4A-E	Foreign Language - English 4 and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Faculty's	Z,ZK	3
	ceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral ar		
	and their features; terminology.		
15X31-E	and their features; terminology.  Project 1	Z	2
15X31-E 15X32P-E	•	Z Z	2 2
	Project 1		
15X32P-E 15X33-E 15Y1BO-E	Project 1 Project 2 PIL-EN Project 3 Work Safety and Health Protection in Transportation	Z Z KZ	2 2 2
15X32P-E 15X33-E 15Y1BO-E	Project 1 Project 2 PIL-EN Project 3 Work Safety and Health Protection in Transportation lative, definition of terms, risks and possible health damage, working conditions and health protection with focus on transportation. H	Z Z KZ	2 2 2
15X32P-E 15X33-E 15Y1BO-E Fundamental legis	Project 1 Project 2 PIL-EN Project 3  Work Safety and Health Protection in Transportation  lative, definition of terms, risks and possible health damage, working conditions and health protection with focus on transportation. Health insurance of home and foreign business trips, statistics, working practice.	Z Z KZ lealth protection pr	2 2 2 ogrammes,
15X32P-E 15X33-E 15Y1BO-E Fundamental legis	Project 1 Project 2 PIL-EN Project 3  Work Safety and Health Protection in Transportation  lative, definition of terms, risks and possible health damage, working conditions and health protection with focus on transportation. Health insurance of home and foreign business trips, statistics, working practice.  History of Civil Aviation	Z Z KZ lealth protection pr	2 2 2 ogrammes,
15X32P-E 15X33-E 15Y1BO-E Fundamental legis 15Y1HL-E Aeronautics. Begin	Project 1 Project 2 PIL-EN Project 3 Work Safety and Health Protection in Transportation  lative, definition of terms, risks and possible health damage, working conditions and health protection with focus on transportation. Health insurance of home and foreign business trips, statistics, working practice.  History of Civil Aviation  nings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of airports in the Czech Republic. World airports. Air	Z Z KZ lealth protection pr	2 2 2 ogrammes,
15X32P-E 15X33-E 15Y1BO-E Fundamental legis 15Y1HL-E Aeronautics. Begin	Project 1 Project 2 PIL-EN Project 3 Work Safety and Health Protection in Transportation lative, definition of terms, risks and possible health damage, working conditions and health protection with focus on transportation. Health insurance of home and foreign business trips, statistics, working practice.  History of Civil Aviation hings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of airports in the Czech Republic. World airports. Air A airplanes. Famous aviators. Classic era of aviation. Golden era of civil aviation. Supersonic flying. Modern era of civil aviation. Flying.	Z Z KZ lealth protection pr	2 2 2 ogrammes, 2 Helicopters.
15X32P-E 15X33-E 15Y1BO-E Fundamental legis 15Y1HL-E Aeronautics. Begin CS 15Y1ZV-E	Project 1 Project 2 PIL-EN Project 3 Work Safety and Health Protection in Transportation  lative, definition of terms, risks and possible health damage, working conditions and health protection with focus on transportation. Health insurance of home and foreign business trips, statistics, working practice.  History of Civil Aviation  nings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of airports in the Czech Republic. World airports. Air	Z Z KZ lealth protection pr KZ lines of the world. g in the world. KZ	2 2 2 ogrammes, 2 Helicopters.
15X32P-E 15X33-E 15Y1BO-E Fundamental legis 15Y1HL-E Aeronautics. Begin CS 15Y1ZV-E Historical prologue,	Project 1 Project 2 PIL-EN Project 3 Work Safety and Health Protection in Transportation lative, definition of terms, risks and possible health damage, working conditions and health protection with focus on transportation. Health insurance of home and foreign business trips, statistics, working practice.  History of Civil Aviation Project 3 History of Civil Aviation of terms, risks and possible health damage, working conditions and health protection with focus on transportation. Health insurance of home and foreign business trips, statistics, working practice.  History of Civil Aviation Project 3 History of Civil Aviation, supersonic flying practice.  History of Civil Aviation A airplanes. Famous aviators. Classic era of aviation. Golden era of civil aviation. Supersonic flying. Modern era of civil aviation. Flyin  East-West dichotomy: Prelude to the Cold War evolution of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continu century and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the	Z Z KZ lealth protection pr KZ lines of the world. g in the world. KZ ity of the internatio	2 2 2 ogrammes,  2 Helicopters.
15X32P-E 15X33-E 15Y1BO-E Fundamental legis 15Y1HL-E Aeronautics. Begin CS 15Y1ZV-E Historical prologue, in the end of 19th	Project 2 PIL-EN Project 3  Work Safety and Health Protection in Transportation  lative, definition of terms, risks and possible health damage, working conditions and health protection with focus on transportation. Health insurance of home and foreign business trips, statistics, working practice.  History of Civil Aviation  Inings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of airports in the Czech Republic. World airports. Air A airplanes. Famous aviators. Classic era of aviation. Golden era of civil aviation. Supersonic flying. Modern era of civil aviation. Flyin  East-West dichotomy: Prelude to the Cold War  evolution of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continu century and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the Economic and financial history. Social changes. Discussions on texts, sources.	Z Z KZ lealth protection pr KZ lines of the world. g in the world. KZ ity of the internatio	2 2 ogrammes,  2 Helicopters.  2 nal relations equences.
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•	Computer Simulations in Mechanics	KZ	2
	erview of programs for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model deve	•	
geometry from otne	r CAE systems. Assignment of material properties. The types of elements and their use. Discretization of solid model. Boundary con	nditions and applic	ation of the
	load. Basic tasks of structural and modal analysis. Introduction to complex nonlinear problems.		
20X31-E	Project 1	Z	2
20X32P-E	Project 2 PIL-EN	Z	2
20X33-E	Project 3	Z	2
21AFL1-E	Advanced Flying 1	Z,ZK	3
l l	ا nents Learning objectives laid down in Commission Regulation (EU) No 1178/2011. Instrument flying introduction, threat and error i		_
	res, enroute flight, holdings and arrivals, instrument approaches, performance based navigation, weather consideration, flight plann		
	briefings, phraseology differences, lost communication procedures, CFIT prevention, decompresion		9,
21CON-E	Navigation Calculations	KZ	2
	times - UTC, Zulu, LT; positioning; sunrise and sunset; distance calculation; projection; maps and symbols; declination; speed; wind		
r rojection of maps,	VFR route selection; position plotting.	a components and	wind drift,
21ELDO-E		Z.ZK	3
	Air Transport Economy	,	
Economic terminolog	y used in air transport. Basic microeconomic laws. Division of the economic disciplines. Economy carrier. Economic indicators in the	management of a	air transport.
041101/5	Business activities in air transport.	7.71/	
21HAV-E	Weight and Balance of Aircraft	Z,ZK	3
	and balance, basic aircraft masses, weighing and maximum aircrafts masses, overloading of aircraft, standard weights of passenger, bag		
	flight documentation - loadsheet, trimsheet, securing of load, determination of centre of gravity, influence of centre of gravity position		
21IFRC-E	IFR Communication	KZ	2
	bbreviations, Q-codes, Transport message categories, Transmission technique,, Transmission of letters, numbers, time and symbols,		
for IFR flight	is, Radar procedural phraseology, Standard phraseology and Morse code, Practical IFR radiotelephony procedures in normal and e	mergency situation	ons.
21KPSL-E	Communication and Surveillance Systems in Aviation	ZK	3
The course acqua	ints students with communication and surveillance systems both from the perspective of the air segment (aircraft systems) and fron	n the perspective	of ground
	infrastructure (ground systems), which together create the necessary prerequisites for ensuring safe, efficient and economical air tr	ransport.	
21KSA-E	KSA Assessment	KZ	2
Communication. M	anagement of flight path. Automation of flight. Leadership and teamwork. Problem solving. Decision making. Situation awarness. W	orkload managem	ent. Upset
	preventation and recovery training. Mental math.		
21LAP1-E	Aviation English for Professional Pilot 1	Z	2
	on continuous reading specialized texts, vocabulary extension of technical English, terminology in the sphere of aircraft construction	n, principles of flig	ht, aircraft
	gines, instruments and systems, analyzes relating to topics of air traffic, operational procedures, relevant legislation and operators p		
21LAP2-E	Aviation English for Professional Pilot 2	Z.ZK	3
I	on repetition and smoother communication within VFR and IFR communication, communication with technical staff at the airport, a f	,	-
2/10/10/00 10 00 00 00	airlines.	idoni convercano.	
21LCM-E	Aircraft Engines	Z,ZK	3
-	e, theoretical background, operational characteristics and construction schemes. Propellers, operational characterictics. Turbine en		
Aircraft niston engir		•	_
		gine, theoretical b	ackground,
thermal cycles, cor	struction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics.	gine, theoretical baracteristics. Engi	ackground, ne control.
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thermal cycles, cor  21LDA1-E Aircraft structural and  21LDA2-E Manufacturers respo  21LEIS-E Basic definitions. Markings. Signs. Mar  21LEY1-E Air Law; ICAO Doc  21LEY2-E The course is focuse in detail File no. 96  21LILE-E Human factors in an and a course is signed.  21LPTY-E  21LPX1-E Practical exercises	Aircraft 1 d conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and can Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic Aircraft 2 Insibility, responsibilities of operator and professional supervising. Legislation in area of airworthiness. International and national stan structures. Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presur Aerodromes  Applicability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Markers. 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 7300; ICAO Doc 7500 and 9626; International Organizations: ICAO, IATA, EASA, EUROCONTROL; airworthiness; ICAO Annexes; 965/2012  Air Law 2 d on the issue of commercial commercial air transport in accordance with applicable European legislation. Within the course, the issue of commercial commercial air transport in accordance with applicable European legislation. Within the course, the issue of commercial commercial air transport in accordance with applicable European legislation. Within the course, the issue of commercial commercial air transport in Aviation  viation. Breathing, atmosphere. Heart and circulation. Radiation. Human sensory organs, nervous system. Vision, hearing, illusions. vakefulness and sleep. Information processing, human error. Cockpit management. Behaviour and workload. Automation. Core commercial compensation for cruise, approach, final approach, missed approach, hodling, PBN, augmented GNSS, aviation charts for IFI Flight Training 1 s for improvement of theoretical knowledge in a range of at least PPL(A) of the objects 010 - 090 in accordance with Part FCL. The I	gine, theoretical baracteristics. Enginaria Z,ZK stegorisation. Aircress.  Z,ZK dards. Static solid mption.  Z,ZK kings of movemer isual approach slove approach slove ansport and transport and transport and hygier petencies.  ZK R flight  KZ basics of flight cor	ackground, ne control.  3 aft loadings.  4 ity of aircraft  3 aft areas. ope indicator  3 lation (EU)  3 is analyzed portation.  3 ne, fatigue,  2 artrol, dual
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thermal cycles, cor  21LDA1-E Aircraft structural and  21LDA2-E Manufacturers respo  21LEIS-E Basic definitions. Markings. Signs. Mar  21LEY1-E Air Law; ICAO Doc  21LEY2-E The course is focused in detail File no. 96  21LILE-E Human factors in an and we we will be a service of the course is solution and the course in detail File no. 96  21LPTY-E  21LPTY-E  21LPX1-E Practical exercises exercises, solo flight	Aircraft 1 It conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and can Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic Aircraft 2 Insibility, responsibilities of operator and professional supervising. Legislation in area of airworthiness. International and national stan structures. Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presur Aerodromes  Applicability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Markers. 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  7300; ICAO Doc 7500 and 9626; International Organizations: ICAO, IATA, EASA, EUROCONTROL; airworthiness; ICAO Annexes; 965/2012  Air Law 2  do not the issue of commercial commercial air transport in accordance with applicable European legislation. Within the course, the issue of 25/2012, regulation no. 1321/2014 and ICAO Annexes, which significantly affect the form, method and structure of commercial air transport in Aviation  viation. Breathing, atmosphere. Heart and circulation. Radiation. Human sensory organs, nervous system. Vision, hearing, illusions, vakefulness and sleep. Information processing, human error. Cockpit management. Behaviour and workload. Automation. Core compared to prove the supervisor of theoretical knowledge in a range of at least PPL(A) of the objects 010 - 090 in accordance with Part FCL. The Instead of the objects of the objects of the objects of the objects of the integrated pilots training and study all cours (Professional Pilot) in all three years.  Flight Training 2	gine, theoretical baracteristics. Enginal Z,ZK ategorisation. Aircress.  Z,ZK ategorisation. Aircress.  Z,ZK dards. Static solid approach solid approach slow at the solid at the solid approach slow at the solid	ackground, ne control.  3 aft loadings.  4 ity of aircraft  3 aft areas. ope indicator  3 lation (EU)  3 as is analyzed portation.  3 ne, fatigue,  2 chrol, dual by field PIL  2 nent flying,
thermal cycles, cor  21LDA1-E Aircraft structural and  21LDA2-E Manufacturers respo  21LEIS-E Basic definitions. Markings. Signs. Mar  21LEY1-E Air Law; ICAO Doc  21LEY2-E The course is focused in detail File no. 96  21LILE-E Human factors in an and we we will be a service of the course is solution and the course in detail File no. 96  21LPTY-E  21LPTY-E  21LPX1-E Practical exercises exercises, solo flight	Instruction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics. Aircraft 1  It conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and can Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic Aircraft 2  Insibility, responsibilities of operator and professional supervising. Legislation in area of airworthiness. International and national stan structures. Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presur Aerodromes  Applicability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Markers. 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  7300; ICAO Doc 7500 and 9626; International Organizations: ICAO, IATA, EASA, EUROCONTROL; airworthiness; ICAO Annexes; 965/2012  Air Law 2  d on the issue of commercial commercial air transport in accordance with applicable European legislation. Within the course, the issue of 25/2012, regulation no. 1321/2014 and ICAO Annexes, which significantly affect the form, method and structure of commercial air transport in accordance with applicable European legislation. Within the course, the issue of commercial air transport in accordance with applicable European legislation. Within the course, the issue of 25/2012, regulation no. 1321/2014 and ICAO Annexes, which significantly affect the form, method and structure of commercial air transport in accordance with applicable European legislation. Within the course, the issue of commercial air transport in accordance with a part of the form, method and structure of commercial air transport in accordance with part F	gine, theoretical baracteristics. Enginal Z,ZK ategorisation. Aircress.  Z,ZK ategorisation. Aircress.  Z,ZK dards. Static solid approach solid approach slow at the solid at the solid approach slow at the solid	ackground, ne control.  3 aft loadings.  4 ity of aircraft  3 aft areas. ope indicator  3 lation (EU)  3 as is analyzed portation.  3 ne, fatigue,  2 chrol, dual by field PIL  2 nent flying,
thermal cycles, cor  21LDA1-E Aircraft structural and  21LDA2-E Manufacturers respo  21LEIS-E Basic definitions. Markings. Signs. Mar  21LEY1-E Air Law; ICAO Doc  21LEY2-E The course is focused in detail File no. 96  21LILE-E Human factors in an and we we will be a service of the course is solution and the course in detail File no. 96  21LPTY-E  21LPTY-E  21LPX1-E Practical exercises exercises, solo flight	Aircraft 1  It conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and oas Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic Aircraft 2  Insibility, responsibilities of operator and professional supervising. Legislation in area of airworthiness. International and national stan structures. Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presur Aerodromes  Applicability, Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Markers. 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  7300; ICAO Doc 7500 and 9626; International Organizations: ICAO, IATA, EASA, EUROCONTROL; airworthiness; ICAO Annexes; 965/2012  Air Law 2  do not the issue of commercial commercial air transport in accordance with applicable European legislation. Within the course, the issue of commercial commercial air transport in accordance with applicable European legislation. Within the course, the issue of commercial commercial air transport in accordance with applicable European legislation. Within the course, the issue of commercial commercial air transport in accordance with applicable European legislation. Within the course, the issue of commercial commercial air transport in accordance with applicable European legislation. Within the course, the issue of commercial air transport in accordance with applicable European legislation. Within the course, the issue of commercial commercial air transport in accordance with applicable European legislation. Within the course, the issue of commercial commercial air transport in accordance with applicable European legislation. Within the course, the issue of commerci	gine, theoretical baracteristics. Enginal Z,ZK ategorisation. Aircress.  Z,ZK ategorisation. Aircress.  Z,ZK dards. Static solid approach solid approach slow at the solid at the solid approach slow at the solid	ackground, ne control.  3 aft loadings.  4 ity of aircraft  3 aft areas. ope indicator  3 lation (EU)  3 as is analyzed portation.  3 ne, fatigue,  2 chrol, dual by field PIL  2 nent flying,

	Flight Training 4	KZ	2
041 5)/5 5	Deepening of theoretical knowledge and practical examination of progress in professional competence in pilot skills and knowl		
21LPX5-E	Flight Training 5  Deepening of theoretical knowledge and practical examination of progress in professional competence in pilot skills and knowl	KZ	2
21LVIP-E	MCC - Multicrew Cooperation	KZ	2
	is in relation to human factor. MCC - basic principles, phases and methods within the area of air transport. CRM - leadership, situation	1	
	process, communication, effect of stress to the multi-crew performance, standard operational procedures, automation.		
21MEE1-E	Meteorology 1	Z,ZK	3
Composition, size a	and vertical structure of the atmosphere. QNH, QFE, QFF, QNE, density and height measurements. Wind, moisture and adiabatic pro	_	and types of
	cloud, fog, haze. Precipitation. Types of air masses, atmospheric fronts. Distribution of pressure, cyclones, anticyclones, non-fronta		
21MET2-E	Meteorology 2	Z,ZK	5
Climatic zones, t	ropical climatology, meteorological situation of mid-latitudes. Icing, turbulence, wind shear, thunderstorms, tornadoes, flying in the str reducing visibility phenomena. Observation, weather maps, important information for flight planning.	atosphere, mounta	ain areas,
21OBN-E	General Navigation	ZK	5
	de and longitude. Reference systems. Circles on the Earth and distance. Calculations. Time. Magnetism and sirections. Wind and Spe	1	_
	ation computer conversions, TAS, rates. Calculations: 1 in 60 and navigation computer track and GS. Projections. Charts. VFR naviga		-
	use. Navigation display. Navigation in remote and oceanic areas.		
21PKL2-E	Advanced Flying 2	ZK	2
	es are based on requirements laid down in Commission Regulation (EU) No 1178/2011, subjects 081 and 100. Multi engine aircraft a	•	
energy manage	ment, stabilized approach and landing errors, jet - performance - engine out flight, jet - handling - engine out flight go around, UPRT,	volcanic ash, cold	weather
24 DML F	operations, operation manuals, MEL procedures and deviations, flight time limitation	7.71/	2
21PML-E	Flight Planning and Monitoring Flight planning for VFR flights for small, single- and multi-engine aeroplanes	Z,ZK	3
21PPY1-E	Operational Procedures 1	Z,ZK	3
2	Annex 6, PART-OPS, Air operator, Aircraft operation, Operating procedures, Airplane equipment, Flight management, Airspa		
21PRJ2-E	Instrumentation 2	ZK	3
	oic instruments (turn indicator, attitude indicator, directional gyro), inertial instruments, recording and monitoring systems, warning sy		WS), AFCS
	(autopilot, flight director, autothrust), FMS, flight envelope protection, communication systems, flight computers		
21PRKP-E	Practical Flight Planning	Z,ZK	4
	ce 2. fuel planning, PDP, RIF,RCF 3. ATC FPL 4. Preflight procedure and briefing-NOTAM + weather(METAR,SIGMET) 5. Jeppesen	_	
theory 7. VFR flig	ht planning- ICAO mapa, softwary 8. IFR flight planning- theory 9. PBN- RNAV, RNP 10. IFR flight planning- softwary 11. MRJT- OFF PET, PSR, PNR 14. practical VFR a IFR flight planning	12. ETOPS a NAI	I HLA 13.
21PRY2-E	Operational Procedures 2	ZK	3
	ation and manuals, Icing and protection of the aircraft against icing, noise abatement procedures, Abnormal and emergency situation	1 1	
3	contamination	,	,,
21PUP1-E	Instrumentation 1	ZK	3
Basic classification	and construction of flight instruments, electric systems, power plant sensors and instruments, airframe sensors and instruments, measu	rement of air data	parameters,
	integrated instrument systems.		
21RNV-E	Radionavigation  Heavy (VPE) APE VOR and Peoples VOR DME. II S. M. S. graved ATC rades weather Rades SSR and transporter Rades will ration	Z,ZK	4
	ider (VDF), ADF, VOR and Doppler VOR, DME, ILS, MLS, ground ATC radar, weather Radar, SSR and transponder. Radar utilization NAV) - general philosophy, gauges and equipment, indication and sensors for RNAV, VOR/DME (RNAV). Autopilot and flight director		
7 (rea navigation (re	and backups.	. Catchile Havigatio	
21SBU1-E	Bachelor Thesis Seminar 1		
		Z	
to cit	iew, applied research, basic research, thesis dealing with design proposals). Working with citation sources (citation sources, citation of	Z databases, citation	n, systems
	iew, applied research, basic research, thesis dealing with design proposals). Working with citation sources (citation sources, citation of a). Analyzing the state of the art (standards of research writing). Defining the limitations of the state of the art. Introduction to the these		n, systems
21SBU2-E	e). Analyzing the state of the art (standards of research writing). Defining the limitations of the state of the art. Introduction to the these Bachelor Thesis Seminar 2	sis methodology.	1 styles, how
Methodology of th	e). Analyzing the state of the art (standards of research writing). Defining the limitations of the state of the art. Introduction to the these Bachelor Thesis Seminar 2 esis writing (introduction, analysis of the current state, specification of the problem, objectives and hypotheses). Definition of materia	sis methodology.  Z als and methods, ap	1 styles, how
Methodology of the	e). Analyzing the state of the art (standards of research writing). Defining the limitations of the state of the art. Introduction to the thes  Bachelor Thesis Seminar 2  esis writing (introduction, analysis of the current state, specification of the problem, objectives and hypotheses). Definition of materia taining results, presentation and discussion of results, formulation of thesis conclusions. Basics of LaTeX, working with LaTeX and W	sis methodology.  Z als and methods, ap	1 styles, how
Methodology of the observed at	e). Analyzing the state of the art (standards of research writing). Defining the limitations of the state of the art. Introduction to the these Bachelor Thesis Seminar 2 esis writing (introduction, analysis of the current state, specification of the problem, objectives and hypotheses). Definition of material taining results, presentation and discussion of results, formulation of thesis conclusions. Basics of LaTeX, working with LaTeX and We Bachelor Thesis Seminar 3	sis methodology.  Z als and methods, ap /ord template.  Z	1 styles, how 1 pproach to 1
Methodology of the observed at	e). Analyzing the state of the art (standards of research writing). Defining the limitations of the state of the art. Introduction to the these Bachelor Thesis Seminar 2 esis writing (introduction, analysis of the current state, specification of the problem, objectives and hypotheses). Definition of material taining results, presentation and discussion of results, formulation of thesis conclusions. Basics of LaTeX, working with LaTeX and Western Bachelor Thesis Seminar 3 hic design of the thesis. Data collection and presentation, basic statistical reasoning, validation of results and designs. Achieving the	sis methodology.  Z als and methods, ap /ord template.  Z	1 styles, how 1 pproach to 1
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21Y1MP-E	Matlab for project-oriented study	KZ	2
The subject's sylla	bus is focused on the problem-solving during bachelor's thesis preparation and it is based on students' requests. Individual exercises	will be prepared a	according to
particular examp	les, based on actual students' needs and suggestions. The subject will have a flexible form, which is expected to bring an improvemen	nt of students' Ma	tlab skills.
21Y1OH-E	Airline Business and Operations	KZ	2
The course provide	s a comprehensive view of the commercial, operational and transportation activities of air transport companies. It focuses on the organiza	ational structure of	companies,
various aspects of t	their strategy, economic and operational indicators. It introduces students in detail to operational processes and the essentials of transp	ortation processe	s. It provides
	a basic view of the economic aspects of air transport.		
21Y1RZ-E	Human Resources Management	KZ	2
The position of	numan resources in the organization and related disciplines file. Substance, importance and challenges of human resources manage	ment. Internal and	external
environment of hun	nan resource management. Human resource planning. Search, recruitment and selection of employees. Motivation, evaluation and rem	uneration of staff.	Positioning,
	dismissal and redundancies of employees. Education of employees. Planning career management.		
21ZYT1-E	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 pre	essures around w	ng, 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		
anach, i sachono or		drag, interference	, devices for
	lift and drag increase.	drag, interference	, devices for
21ZYT2-E	lift and drag increase.  Principles of Flight 2	drag, interference	, devices for
21ZYT2-E	·	Z,ZK	3
21ZYT2-E Ways of producing	Principles of Flight 2	Z,ZK ler operation mod	3 es, propeller
21ZYT2-E Ways of producing	Principles of Flight 2 thrust, propeller, jet propulsion, thrust and momentum, propulsion efficiency, aerodynamics of fixed and variable pitch propeller, propell	Z,ZK ler operation mod	3 es, propeller
21ZYT2-E Ways of producing	Principles of Flight 2 thrust, propeller, jet propulsion, thrust and momentum, propulsion efficiency, aerodynamics of fixed and variable pitch propeller, propell gyroscopic effect, balance of forces in horizontal flight, glide and landing, performances, take off an climb, acceleration, positive load	Z,ZK ler operation mod	3 es, propeller
21ZYT2-E Ways of producing airstream effect,	Principles of Flight 2 thrust, propeller, jet propulsion, thrust and momentum, propulsion efficiency, aerodynamics of fixed and variable pitch propeller, propell gyroscopic effect, balance of forces in horizontal flight, glide and landing, performances, take off an climb, acceleration, positive load controllability, transsonic speeds.	Z,ZK ler operation mod , manoevures, sta	3 es, propeller bility and

For updated information see <a href="http://bilakniha.cvut.cz/en/FF.html">http://bilakniha.cvut.cz/en/FF.html</a> Generated: day 2025-10-20, time 12:10.