Study plan

Name of study plan: PIL bak.prez.10/11

Faculty/Institute/Others: Department: Branch of study guaranteed by the department: Welcome page Garantor of the study branch: Program of study: Technology in Transportation and Telecommunications 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: 87 The role of the block: Z

Code of the group: 1.S.BPIL 10/11 Name of the group: 1.sem.PIL bak.prez.10/11 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:

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
13E	Economics	Z,ZK	3	2+1	Z	Z
11GIE	Geometry Old ich Hykš, Pavel Provinský, Šárka Vorá ová Old ich Hykš Old ich Hykš (Gar.)	KZ	3	2P+2C+12B	Z	Z
11LA	Linear Algebra Pavel Provinský, Lucie Kárná, Martina Be vá ová Martina Be vá ová Martina Be vá ová (Gar.)	Z,ZK	3	2P+1C+10B	Z	Z
11MTA	Mathematical Analysis	Z,ZK	4	2+2	Z	Z
18MRI1	Materials 1	Z,ZK	3	2+1	Z	Z
00TVC1	Physical Education 1	Z	1	0+2	Z	Z
18TTED	Creation of Technical Documentation	KZ	2	2+1	Z	Z
21UVP	Theory for Starting of The Pilot's Training	Z,ZK	6	2+1	Z	Z
12ZADI	Introduction to Transportation Engineering	Z,ZK	3	2+1	Z	Z
14ZINF	Fundamentals of Informatics	KZ	2	0+2	Z	Z
Characteristics of the	courses of this group of Study Plan: Code=1.S.BPIL 10/11 Na	me=1.sem.PI	L bak.pr	ez.10/11		

13E **Economics** Z,ZK 3 Microeconomic and macroeconomic interpretation of economic relations. Method and subject of the economics. Economic decision making of consumers and producers. Market structures. Labour and capital, efficiency, ownership, public choice. 11GIE Geometry K7 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 Linear Algebra 11LA Z,ZK 3 Vector spaces (linear combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and their solvability. Determinants and their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classification. 11MTA Mathematical Analysis Z.ZK 4 Sequences and series of real numbers and its convergence. Basic properties of functions. Differential and integral calculus of the real function of one real variable. Power series, Fourier series and foundations of Fourier transform. 18MRI1 Materials 1 Z,ZK 3 Crystal structure. Basics of thermodynamics of metals and their alloys. Balanced binary diagrams. Alloys of iron with carbon. Deterioration of solid solutions. Heating processing of steel and cast irons. Physical features. Mechanical features. Dephectostopic testing. Corosion.

00TVC1	Physical Education 1	Z	1			
Practical instruction and	re: basketball, voll	eyball, soccer,				
tennis, squash, floorball	, bodybuilding, swimming, canoeing, aerobic.					
18TTED	Creation of Technical Documentation	KZ	2			
Technical standards, inte	ernational standardization, types of technical drawings, representation of technical objects, technical diagrams and charts, dime	ensional and geom	netrical accuracy,			
arrangement of drawing	sheets, types of schemes and their creation.					
21UVP	Theory for Starting of The Pilot's Training	Z,ZK	6			
Air Transport as a comp	onent of complex transport system. International status of Civil Aviation. International Organizations in Europe and worldwid	e. Charakteristics	of Air Transport.			
Business aviation. Tech	nical Operating of Aircrafts.					
12ZADI	Introduction to Transportation Engineering	Z,ZK	3			
Traffic survey. Terrestria	roads. Residential zone. Land - use planning. Railway transport. Public mass transport. Integrated traffic systems. Traffic pro	gnosis. Traffic safe	ety. Air transport.			
Traffic and environment						
14ZINF	Fundamentals of Informatics	KZ	2			
Introduction to faculty ne	etwork, MS-Word and Open Office, use of styles and advanced features, computer functions and information transmission. N	lumber systems ir	ncl. arithmetic			
calculations. Algorithms and their proprieties. Flow charts for algorithms drawing. Mathematic and logic ordering algorithms incl. functions and procedures. Work with MS-Excel - tables,						
graphs, calculations, fur	graphs, calculations, functions.					
Traffic survey. Terrestrial roads. Residential zone. Land - use planning. Railway transport. Public mass transport. Integrated traffic systems. Traffic prognosis. Traffic safety. Air transport. Traffic and environment. Traffic and environment. 14ZINF Fundamentals of Informatics KZ 2 Introduction to faculty network, MS-Word and Open Office, use of styles and advanced features, computer functions and information transmission. Number systems incl. arithmetic calculations. Algorithms and their proprieties. Flow charts for algorithms drawing. Mathematic and logic ordering algorithms incl. functions and procedures. Work with MS-Excel - tables graphs, calculations, functions.						

Code of the group: 2.S.BPIL 10/11

Name of the group: 2.sem.PIL bak.prez.10/11

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:

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
11FY1	Physics 1	Z,ZK	4	2P+2C	L	Z
18MRI2	Materials 2	KZ	2	2+0	L	Z
21N	Navigation	ZK	4	4P+0C	L	Z
21PVY1	Practical Pilot's Training 1	Z	2	0+1	L	Z
21PSL	Operational Procedures and Related Legislature	KZ	3	2+1	L	Z
14SIAP	Networks and Protocols	KZ	2	1+1	L	Z
18ST	Statics	Z,ZK	3	2+1	L	Z
00TVC2	Physical Education 2	Z	1	0+2	L	Z
21TPIL	Theory of Pilot's Training	Z,ZK	7	4+4	L	Z
14UPRO	Introduction to Programming	KZ	2	0+2	L	Z

Characteristics of the courses of this group of Study Plan: Code=2.S.BPIL 10/11 Name=2.sem.PIL bak.prez.10/11

11FY1	Physics 1	Z,ZK	4				
Kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodynamics, electric field, directed electric current.							
18MRI2	Materials 2	KZ	2				
Fundamental concepts	notions. The main materials groups. Semiconductors. Polymers. Special types of steel. Properties and application of the com	posite materials.					
21N	Navigation	ZK	4				
Earth - shape, dimensio	ns of the reference ellipsoid and geoid, position reference system (grid), large and small circles. Great-circle distance and the r	numb line. Conver	gence. Spherical				
trigonometry. Mathema	tical determination of elements rhumb line course and Great-circle distance. Agona, isogona. Projection of maps. ICAO and Je	ppeson maps. Tir	nes - UTC, Zulu,				
LT. Time zones. Compa	rative navigation. Dead reckoning. INS / IRS, FMS.						
21PVY1	Practical Pilot's Training 1	Z	2				
Practical exercises for i	mprovement of theoretical knowledges within the minimum range of PPL(A), courses 010 to 090 in compliance with JAR FCL	. 1. This course is	completed by				
verification of theoretica	al knowledge and practical exam with FTO examinator for practical training.						
21PSL	Operational Procedures and Related Legislature	KZ	3				
General requirements of	f ANNEX 6 ICAO, EU-OPS rules. Operational procedures requirements. Requirements for long-haul flights. Special operation	nal procedures an	d danger.				
14SIAP	Networks and Protocols	KZ	2				
Basic communication n	nodel, history and development of the Internet, principle of data transfer through computer networks (TCP/IP), performance o	f basic network p	rotocols (ARP,				
RARP, TCP, UDP, Telne	t, FTP, DNS, DHCP POP3, IMAP), data acquirement from the Internet sources, communicating ability via the Internet and funda	amentals of own v	veb presentation				
design by the means of	web sites.						
18ST	Statics	Z,ZK	3				
General system of force	es. Calculation of reactions of mass objects and compound systems. Assessment of internal forces on statically determinate t	beam and simple	framework.				
Principle of virtual work	s. Kinematic method for calculation of reactions of statically determinate systems. Determination of axial forces in truss constru	ction, method of jo	oints and method				
of sections. Geometry of	of cross sections. Plane fiber polygons and catenary cables.						
00TVC2	Physical Education 2	Z	1				
Practical instruction and	training in a wide variety of sports and games: from basic recreational coaching to competitive top level training. Included a	e: basketball, voll	eyball, soccer,				
tennis, squash, floorbal	I, bodybuilding, swimming, canoeing, aerobic.						

[]						
21TPIL The	eory of Pilot's Training	lahi liatad in FTO n	annual Tha	Z	∠,ZK	7
leaching of theoretical know	ledge needed to enter the first phase of integrated training. The education acts to syl	abi listed in FIO n	nanual. The	subjects an	a their minimui	m range is
assessment and exam.		ance with the same	regulation.			unclassified
14UPRO Intr	roduction to Programming				KZ	2
Algorithm development, meth	nods of structured programming, high-level programming languages, basics of C programming	gramming languag	es (types, va	ariables, cor	nditions, cycles	s, arrays,
functions), programming tech	iniques, complexity.					
Code of the group	o: 3.S.BPIL 11/12					
Name of the grou	p: 3.sem.PIL bak.prez.11/12					
Requirement crea	dits in the group: In this group you have to gain 27	' credits				
Requirement cou	rses in the group: In this group you have to compl	lete 8 cours	ses			
Credits in the aro	un [.] 27					
Note on the group	op. 27					
Note on the group	J. Name of the course / Name of the group of courses		1		,	
•	(in case of groups of courses the list of codes of their					
Code	members)	Completion	Credits	Scope	Semester	Role
	Tutors, authors and guarantors (gar.)					
11FY2	Physics 2	Z,ZK	4	2+2	Z	Z
21PLL1	Flight Planning and Performance 1	KZ	4	2+1	Z	Z
12PPOK	Designing Roads, Highways and Motorways Petr Šatra, Josef Kocourek, Tomáš Pad lek, Petr Kumpošt	KZ	3	1P+2C+10B	Z	Z
21RN	Radionavigation	Z,ZK	6	2+2	Z	Z
21RFS	Radiotelephony and Communication	KZ	4	1+2	Z	Z
14UATT	Introduction to Automatization and Telecommunication Systems	KZ	2	3+0	Z	Z
16UDDM	Introduction to Transportation and Manipulation Technics	ZK	2	2+0	Z	Z
14ZAET	Fundamentals of Electrotechnics	KZ	2	2+1	Z	Z
Characteristics of the	courses of this group of Study Plan: Code=3.S.BPIL 11/12 Na	ame=3.sem.Pl	L bak.pr	ez.11/12	7 71/	
11FYZ PN Magnetic field, electromagne	/SICS Z stic field. Ontics: quantum character of electromagnetic radiation. Introduction into qu	antization bydroge	n atom Mu	ti-electron a	L,ZK	4 lei Basics o
solid body physics.		anazation, nyuroge	an atom. wiu		itoms, the hou	ei. Dasics 0
21PLL1 Flig	oht Planning and Performance 1				KZ	4
Basic terms of mass and bal	ance, basic aircraft masses, maximum aircrafts masses, standard weights of passen	ger, baggage and	crew, deterr	nination of l	oad of aircraft,	loadsheet,
trimsheet, determination of c	entre of gravity, aircraft weighing, overloading of aircraft, influence of centre of gravity	y position on aircar	ft performar	nce.		
12PPOK De	signing Roads, Highways and Motorways	anaitian aurua. Cinu			KZ	3
Range of vision for stopping	and overtaking Road body - shapes and proportions bottom and superstructure Dr	ansition curve. Sinc	pents of roa	anuaru spe 1s. Safetv de	evice Crossing	nai areas.
intersections.				ao. Ouloty u		jo, juniotiono
21RN Ra	dionavigation			Z	Z,ZK	6
Ground direction finder (VDF	;), ADF, VOR and Doppler VOR, DME, ILS, MLS, ground ATC radar. Airborne Weathe	r Radar, SSR and	transponder	. Radar utiliz	zation for naviç	ation during
the flight. Area navigation (R	NAV) - general philosophy, particular airborna equipment, indication and sensors for	RNAV, VOR/DME	(RNAV), adj	uction to au	topilot and fligh	nt director.
Satellite navigation.				1	1/7	
21RFS Ra	diotelephony and Communication	hasis sportional r	rooduroo	etenderd og		4
broadcasting of the numbers	, letters, etc., call signs, radio-communication in normal and emergency procedures.	loss of communica	ation, weath	er informatio	on, HF commu	nication.
14UATT Intr	roduction to Automatization and Telecommunication Systems		,		KZ	2
Basic axioms of technical cyl	bernetics, automatization in transportation, human as the weakest element, signalling	g in transpotation,	modelling a	nd projecting	ہ g of transport	systems,

Minimal number of credits of the block: 81 The role of the block: P

networks and services, NGN networks.

technics. Principles of lifting machines and conveyors. Legislature.

and principle of superposition in direct current circuits.

Fundamentals of Electrotechnics

Name of the block: Compulsory courses in the program

16UDDM

14ZAET

Code of the group: 4.S.BPIL 11/12 Name of the group: 4.sem.PIL bak.prez.11/12 Requirement credits in the group: In this group you have to gain 27 credits

Introduction to Transportation and Manipulation Technics

integrated technological and infromation system in post, principle of telecommunication signal transmission, solving of telecommunication networks, modulating methods, multimedial

Means of transportation and transportation systems. Principles, functions and arrangement of means of transportation. Motors and their characteristics. Water transportation. Manipulating

Basic electrotechnic terms, circuit quantities. Periodic courses characteristics. Electric circuits elements and basic circuit members. Assignating of bipoles and basic circuit elements. Solution to direct current circuits with a help of circuit analysis elementar methods: method of consecutive reduction, unloaded voltage divider, current divider. Transfiguration star-triplangel

ΖK

ΚZ

2

2

Requirement courses in the group: In this group you have to complete 9 courses Credits in the group: 27 Note on the group:

Note on the group		1				
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
21CNV	Flight Navigation Training	Z	2	0+2	L	Р
21LL1	Aircraft 1	KZ	3	2P+1C+10B	L	Р
21LPVL	IFR Flights, Night's Flying and Multiengine Aircrafts Flying	KZ	3	2+0	L	Р
21LR	Radio Technology in Aviation	ZK	2	2+0	L	Р
21MGI	Meteorology	Z,ZK	5	4+2	L	Р
21PJE1	Instrumentation 1	Z,ZK	2	2+1	L	Р
21PLL2	Flight Planning and Performance 2	KZ	4	2+1	L	Р
21PVY2	Practical Pilot's Training 2	KZ	3	0+1	L	Р
21ZLE1	Principles of Flight 1	KZ	3	2+1	L	Р
						1
Characteristics of the	courses of this group of Study Plan: Code=4.S.BPIL 11/12 Na	me=4.sem.PI	L bak.pr	ez.11/12	_	
21CNV Flig	Int Navigation Training					2 Controct
procedures VOR / DME_ND	ion and device nandling navigation systems, standard annval and departures routes (STAR, SID), ILS, I redures bolding n	vilo appioa	ow visibility	PRR, SRE	ER flight
preparation and operation.	kamples from General navigation and Radionavigation.	cedures, nording p	ioceduies,		procedures. I	r iv night
21111 Air	praft 1				K7	3
Aircraft structural and concept	otual design types - definitions and basic knowledge of the problem. Development of re	equirements, aircr	aft definition	s and categ	orisation. Airc	raft loadings.
Systems of primary and seco	ondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aerop	plane topics.		-		
21LPVL IFR	R Flights, Night's Flying and Multiengine Aircrafts Flying				KZ	3
Basic night flying, multiengine	flying and instrument flying. Instrumentation, airport, lightning, signals. Normal operation	ons and emergend	y operations	s night. Instr	umentation, a	erodynamics,
aeroplane specification. Norn	nal operations and emergency operations multiengines. Avionics, instrument panel, co	ockpit ergonomy. I	Normal oper	ations and	emefgency op	erations
instrument flying. Connection	is in operations multiengines in IMC and night.					-
21LR Ra	dio Technology in Aviation			.	ZK	2
Electric signals and the wave	spectrum, Analog and digital modulations, Noises, Fliters, Resonance circuits. Electr	romagnetic field. E	lectromagn	etic wave pr	opagation. Wa	ave ranges
	toorology			7	' 7K	5
Structure of atmosphere Ver	tical stratification Pressures ONH OFF OFF OMF Instability Atmospherical fronts	Atmospherical rai	nfall origin f	ission Turbi	.,∠n ilence Power	J s causing
wind. Cyclone and anticyclon	e. Gradient wind. Geostrofical and geocyklostrofical wind. Visibilities in air transport. Da	angerous meteoro	logical aspe	cts. Meteor	plogical maps	Climatology.
Circulation. Intertropical front	. Meteorological informations.	C C			. .	
21PJE1 Ins	trumentation 1			Z	,ZK	2
Basic classification and const	ruction of flight instruments, electric systems, power plant sensors and instruments, airl	frame sensors and	instruments	s, measuren	nent of air data	parameters.
21PLL2 Flig	ht Planning and Performance 2				KZ	4
Basic terms in aircraft perforr	nance, basic characteristic speeds, runway characteristics, single and multiengine air	craft performance	class B, air	craft perforn	nance class A	, take off and
landing performance, after ta	ke off and missed approach climb, noise abatement procedures, range of aircraft, drif	ft down, MEL, ETC	OPS.			
21PVY2 Pra	ctical Pilot's Training 2				KZ	3
Practical exercises for improv	rement of theoretical knowledges needed for commencement of training for acquisition	n of IR(A) qualifica	tion in cours	ses 010 to 0	90 in complia	nce with JAR
FUL 1. This course is finished	a in verification of teoretical knowledge and practical exam with FTO examinator for pr	ractical training.			1/7	
21ZLE1 Pril	CIPIES OF Flight 1	quotion lift and d	roa oir flow	and property		3 na onalo of
attack reactions of wind in a	enveen uray and speed, streamine, boundary layer, communy equation, Bernoulli's e	ryuation, iiit and d	iay, all 110W final snan	anu pressu induced dra	a interference	ny, anyle of
lift and drag increase.	r now, int and anago, a wing and an anoral, openioient of int and drag, official drigie o	attaon, wing with	innai opani,		g, monoreno	5, 001005 101

Code of the group: 5.S.BPIL 12/13

Name of the group: 5.sem.PIL bak.prez.12/13

Requirement credits in the group: In this group you have to gain 27 credits

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

Credits in the group: 27

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
14DB	Database Systems	KZ	2	0+2	Z	Р
21DKV	Aviation Datalink Communication	KZ	2	2+0	Z	Р
21LTA2	Aircraft 2 Karel Mündel Karel Mündel	Z,ZK	2	2P+1C	Z	Р
21LICL	Human Factors in Aviation	KZ	2	2+0	Z	Р

21PJE2	Instrumentation 2	Z,ZK	4	2+1	Z	Р
21PLL3	Flight Planning and Performance 3	Z,ZK	7	2+1	Z	Р
21PPJ	IFR Flights Procedures	KZ	4	2+1	Z	Р
21ZLE2	Principles of Flight 2	Z,ZK	4	2+1	Z	Р

Characteristics of the courses of this group of Study Plan: Code=5.S.BPIL 12/13 Name=5.sem.PIL bak.prez.12/13

14DB	Database Systems	KZ	2				
Basic concepts of database systems, conceptual model, relational data model, the principles of normal forms, relational database design, security and integrity of data, database							
queries, relational algeb	ra, SQL language, client / server, multilayer architectures, distributed database systems. Access to data via the WWW.						
21DKV	Aviation Datalink Communication	KZ	2				
The subject acquaints s	tudents with aviation communication domain. Stress is put on the datalink systems. Students are acquainted both with techni	cal aspect and wi	th operation				
problem so that they are	able to understand data flows necessary for provision safe, fluent and economic air traffic.						
21LTA2	Aircraft 2	Z,ZK	2				
Manufacturers responsit	ility, responsibilities of operator and professional supervising. Legislation in area of airworthiness. International and national s	tandards. Static s	solidity of aircraft				
structures. Aeroelasticity	Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presumption.						
21LICL	Human Factors in Aviation	KZ	2				
Human performace &an	np; limitations, capability & amp; competence, accident statistics, flight safety, fundamentals of flight physiology, man & amp; e	vironment, breat	hing &				
circulation, sensory syst	em, health & hygiene, health preservation, intoxication, incapacitation, fundamentals of flight psychology, human inform	ation processing,	memory &				
learning, theory & r	nodel of human error, body rhythms & amp; sleep, stress, fatigue, working methods.						
21PJE2	Instrumentation 2	Z,ZK	4				
Earth's magnetic field, n	nagnetic compass, gyroscopic instruments, inertial navigation and reference systems, radio-navigational systems, radars, mo	nitoring and reco	rding systems,				
integrated instrument sy	stems.						
21PLL3	Flight Planning and Performance 3	Z,ZK	7				
Flight planning and mon	itoring, routing, FL and speeds selection, prohibited, restricted and temporary separated areas, ATS routes and conditional rou	utes, route availat	pility documents,				
CFMU messages - AIM,	ANM, CRAM, NAT MNPS, charts, ICAO ATC FPL, RPL, aerodrom operation minimums, fuel plan, decission point procedure	es, operationa flig	ht plan.				
21PPJ	IFR Flights Procedures	KZ	4				
Documentation Jeppese	m. IFR aqqroach segments. Precision approach ILS/PAR, MLS. Low Visibility Operation (LVO). Non precision approach - ILS	without GP, VOR	DME, NDB and				
SRA. Airport's operation	n minima. Circuit's approach and approach by ground contact. Holding paterns, SID and STAR. GNSS approach. Altimeter se	etting procedures.	IFR flights				
operation. RNAV approa	ch procedures and other operation.						
21ZLE2	Principles of Flight 2	Z,ZK	4				
Ways of producing thrus	t, propeller, jet propulsion, thrust and momentum, propulsion efficiency, aerodynamics of fixed and variable pitch propeller, pro	peller operation r	nodes, propeller				
airstream effect, gyrosco	opic effect, balance of forces in horizontal flight, glide and landing, performances, take off and climb, acceleration, positive loa	ad, manoeuvres, s	stability and				
controllability, transsonic	speeds.						

Code of the group: 6.S.BPIL 12/13

Name of the group: 6.sem. PIL bak.prez. 12/13

Requirement credits in the group: In this group you have to gain 27 credits

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

Credits in the group: 27

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
14ISYS	Information Systems	KZ	2	2+0	L	Р
21LRY	Aircraft Engines	Z,ZK	2	2+1	L	Р
21LPS	Flight Operation & Requirements and Legislation	Z,ZK	7	3+1	L	Р
21LCP	Human Factor for Pilots	Z,ZK	5	2+1	L	Р
21MCC	MCC - Multicrew Cooperation	KZ	4	2+0	L	Р
21PVY3	Practical Pilot's Training 3	KZ	4	0+1	L	Р
12PKD	Rail Transport Designing	Z,ZK	3	2+2	L	Р

Characteristics of the courses of this group of Study Plan: Code=6.S.BPIL 12/13 Name=6.sem. PIL bak.prez. 12/13

14ISYS	Information Systems	KZ	2				
State-of-the-art tools of	State-of-the-art tools of objects control (control and planning) including problems related to these toole use, theory of information and knowledge, knowledge and expert systems, IS						
planning methodologies	, transaction systems, theory of computer networks, semantic webs and sensitivity analysis.						
21LRY	Aircraft Engines	Z,ZK	2				
Aircraft piston engine, th	eoretical background, operational characteristics and construction schemes. Propellers, operational characterictics. Turbine	engine, theoretica	al background,				
thermal cycles, construction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics. Engine control.							
21LPS	Flight Operation & Requirements and Legislation	Z,ZK	7				
21LPS Introduction to aviation r	Flight Operation & Requirements and Legislation equirements. Ministry of Transport and Civil Aviation Authority action. ICAO Annexes 1-18. Aviation Requirements of Czech	Z,ZK Republic L1-L18. I	7 Rquirements of				
21LPS Introduction to aviation r ICAO Doc. 8168 and IC/	Flight Operation & Requirements and Legislation equirements. Ministry of Transport and Civil Aviation Authority action. ICAO Annexes 1-18. Aviation Requirements of Czech AO Doc. 4444 analysis and exposition, introduction to new legislation flowing from European Community Directives and Reg	Z,ZK Republic L1-L18. I ulations.	7 Rquirements of				
21LPS Introduction to aviation r ICAO Doc. 8168 and IC/ 21LCP	Flight Operation & Requirements and Legislation equirements. Ministry of Transport and Civil Aviation Authority action. ICAO Annexes 1-18. Aviation Requirements of Czech AO Doc. 4444 analysis and exposition, introduction to new legislation flowing from European Community Directives and Reg Human Factor for Pilots	Z,ZK Republic L1-L18. I ulations. Z,ZK	7 Rquirements of 5				
21LPS Introduction to aviation r ICAO Doc. 8168 and IC/ 21LCP Human factors in aviation	Flight Operation & Requirements and Legislation equirements. Ministry of Transport and Civil Aviation Authority action. ICAO Annexes 1-18. Aviation Requirements of Czech AO Doc. 4444 analysis and exposition, introduction to new legislation flowing from European Community Directives and Reg Human Factor for Pilots n, flight safety, competence of flying personnel, problem areas for pilots, situational awareness, sensory illusions, origins of erro	Z,ZK Republic L1-L18. I ulations. Z,ZK rs and their prever	7 Rquirements of 5 ntion, personality				

21MCC	MCC - Multicrew Cooperation	KZ	4			
Flight safety analysis. N	ICC - basic principles, phases and methods. CRM - leadership, situational awareness, decision making process, communica	tion, stress, stand	ard operational			
procedures, automatitic	n.					
21PVY3	Practical Pilot's Training 3	KZ	4			
Practical exercises for i	mprovement of theoretical knowledges needed for finalization of integrated training for acquisition of ATPL(A) qualification in	courses 010 to 09	0 in compliance			
with JAR FCL 1. This co	urse is finished in verification of teoretical knowledge and practical exam with FTO examinator for practical training. Based on e	examination by CA	A, the certificate			
ATPL(A) is issued.						
12PKD	Rail Transport Designing	Z,ZK	3			
Railway lines network. Vehicle and track relation. Traction. Track geometrical parameters. Clearance profile. Railway lines routing. Superstructure and substructure of the railway lines.						
Switches Railway stations City rail transport						

Name of the block: Jazyky Minimal number of credits of the block: 12 The role of the block: J

Code of the group: JZ-B-1,2 11/12 Name of the group: Jazyk bak.3.4.sem.od 11/12 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 2 courses Credits in the group: 6 Note on the group:

<u> </u>						
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
15JZ1A	Foreign Language - English 1 Markéta Vojanová, Dana Boušová, Marie Michlová, Barbora Horá ková, Marek Tome ek, Jan Feit, Markéta Musilová, Peter Morpuss, Lenka Monková,	Z	3	0P+4C+10B	Z	J
15JZ2A	Foreign Language - English 2 Markéta Vojanová, Dana Boušová, Marie Michlová, Jan Feit, Markéta Musilová, Peter Morpuss, Lenka Monková, Jitka He manová, Eva Rezlerová,	Z,ZK	3	0P+4C+10B		J
15JZ1F	Foreign Language - French 1	Z	3	0+4	Z	J
15JZ2F	Foreign Language - French 2	Z,ZK	3	0+4	L	J
15JZ1N	Foreign Language - German 1	Z	3	0+4	Z	J
15JZ2N	Foreign Language - German 2	Z,ZK	3	0+4	L	J
15JZ1R	Foreign Language - Russian 1	Z	3	0+4	Z	J
15JZ2R	Foreign Language - Russian 2	Z,ZK	3	0+4	L	J
15JZ1S	Foreign Language - Spanish 1	Z	3	0+4	Z	J
15JZ2S	Foreign Language - Spanish 2	Z,ZK	3	0+4	L	J

Characteristics of the courses of this group of Study Plan: Code=JZ-B-1,2 11/12 Name=Jazyk bak.3.4.sem.od 11/12

15JZ1A	Foreign Language - English 1	Z	3		
Grammatical Structures	and Style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and	l communicative s	kills. Elementary		
stylistics forms. Oral and	d written presentation of original research. Academic text principles and reading comprehension. Principles of rhetoric.				
15JZ2A	Foreign Language - English 2	Z,ZK	3		
Grammatical structures and style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and communicative skills. Elementary					
stylistics forms. Oral and	d written presentation of original research. Academic text principles and reading comprehension. Principles of rhetoric.				
15JZ1F	Foreign Language - French 1	Z	3		
Grammar structure and	stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Facult	y's fields of study	. Focus on		
improvement in percept	ive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both ora	I and written form	s. Technical		
texts and their features;	practice of oral and written presentation.				
15JZ2F	Foreign Language - French 2	Z,ZK	3		
Grammar structure and	stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Facult	y's fields of study	. Focus on		
improvement in percept	ive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both ora	and written form	s. Technical		
texts and their features;	practice of oral and written presentation.				
15JZ1N	Foreign Language - German 1	Z	3		
Grammar structure and	stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Facult	y's fields of study	. Focus on		
improvement in percept	ive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both ora	and written form	s. Technical		
texts and their features;	practice of oral and written presentation.				
15JZ2N	Foreign Language - German 2	Z,ZK	3		
Grammar structure and	stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Facult	y's fields of study	. Focus on		
improvement in percept	ive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both ora	I and written form	s. Technical		
texts and their features;	practice of oral and written presentation.				
15JZ1R	Foreign Language - Russian 1	Z	3		
Grammar structure and	stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Facult	y's fields of study	. Focus on		
improvement in percept	ive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both ora	I and written form	s. Technical		
texts and their features: practice of oral and written presentation					

	oreign Language - Russian 2			Z	Z,ZK	3
Grammar structure and st	ylistics. Conversational and specialised topics selected according to the language group	b level and with reg	ard to the F	aculty's fiel	ds of study. For	cus on
nprovement in perceptive	and communicative skills; widening the vocabulary. Basic kinds of compositions. Prese	entations of own fin	dings in bot	h oral and w	vritten forms. Te	echnical
exts and their features; pr	actice of oral and written presentation.					
5JZ1S F	Foreign Language - Spanish 1				Z	3
rammar structure and st	ylistics. Conversational and specialised topics selected according to the language group	b level and with reg	ard to the F	aculty's fiel	ds of study. For	cus on
provement in perceptive	e and communicative skills; widening the vocabulary. Basic kinds of compositions. Prese	entations of own fin	dings in bot	h oral and w	vritten forms. Te	echnical
xts and their features; pi	actice of oral and written presentation.					
5JZ2S F	Foreign Language - Spanish 2			Z	2,ZK	3
rammar structure and st	ylistics. Conversational and specialised topics selected according to the language group	b level and with reg	ard to the F	aculty's fiel	ds of study. For	cus on
provement in perceptive	and communicative skills; widening the vocabulary. Basic kinds of compositions. Prese	entations of own fin	dings in bot	h oral and w	vritten forms. Te	echnical
xts and their features; pi	actice of oral and written presentation.					
ode of the aro	up: JZ-PIL.TUL 3.4 12/13					
amo of the are	$\frac{1}{12} \frac{1}{12} \frac$					
anie of the gro	JUP. JAZYK FIL, TOL 5.0. Selli 12/15					
equirement cr		aradita				
oquironioni or	edits in the group: in this group you have to gain 6 d	Jieuns				
equirement co	ealts in the group: In this group you have to gain 6 o	ete 2 cours	ses			
equirement co	edits in the group: In this group you have to gain 6 to purses in the group: In this group you have to compl	ete 2 cours	ses			
equirement co redits in the g	ourses in the group: In this group you have to gain 6 to ourses in the group: In this group you have to compl oup: 6	ete 2 cours	ses			
Requirement co credits in the gi lote on the gro	ealts in the group: In this group you have to gain 6 o purses in the group: In this group you have to compl roup: 6 up:	ete 2 cours	ses			
Requirement co redits in the gro	edits in the group: in this group you have to gain 6 to ourses in the group: In this group you have to compl oup: 6 Name of the course / Name of the group of courses	ete 2 cours	ses			
code	edits in the group: In this group you have to gain 6 to ourses in the group: In this group you have to compl oup: 6 Up: Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their	ete 2 cours	Ses	Scope	Semester	Role
equirement co redits in the gro	Pourses in the group: In this group you have to gain 6 to purses in the group: In this group you have to compl roup: 6 up: Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members)	ete 2 cours	Ses Credits	Scope	Semester	Role
Requirement co redits in the gro lote on the gro	edits in the group: In this group you have to gain 6 to ourses in the group: In this group you have to compl roup: 6 up: 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.)	ete 2 cours	SES Credits	Scope	Semester	Role
Requirement co credits in the gro lote on the gro	edits in the group: In this group you have to gain 6 to ourses in the group: In this group you have to compl roup: 6 up: 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.) Foreign Language - English 3	Completion	Ses Credits	Scope	Semester	Role
Requirement co redits in the gr lote on the gro	edits in the group: In this group you have to gain 6 to purses in the group: In this group you have to compl roup: 6 up: 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.) Foreign Language - English 3 Markéta Vojanová, Dana Boušová, Marie Michlová, Barbora Horá ková, Jan Feit Markéta Vojanová, Dana Boušová, Marie Michlová, Barbora Horá ková, Jan Feit Markéta Vojanová, Dana Boušová, Marie Michlová, Barbora Horá ková, Jan	Completion	Ses Credits	Scope 0P+4C	Semester Z	Role
equirement co redits in the gr ote on the gro	Points in the group: In this group you have to gain 6 to purses in the group: In this group you have to complete to complete to gain 6 to purses in the group: In this group you have to complete to gain 6 to purses in the group: 6 Up: 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.) Foreign Language - English 3 Markéta Vojanová, Dana Boušová, Marie Michlová, Barbora Horá ková, Jan Feit, Markéta Musilová, Peter Morpuss, Lenka Monková, Jitka He manová, Foreign Language - English 4	Completion	Ses Credits	Scope 0P+4C	Semester Z	Role
equirement co redits in the gr ote on the gro 5JZ3A	Points in the group: In this group you have to gain 6 to purses in the group: In this group you have to complete to gain 6 to purses in the group: In this group you have to complete to gain 6 to purses in the group: 6 Up: 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.) Foreign Language - English 3 Markéta Vojanová, Dana Boušová, Marie Michlová, Barbora Horá ková, Jan Feit, Markéta Musilová, Peter Morpuss, Lenka Monková, Jitka He manová, Foreign Language - English 4	Completion	Ses Credits 3 3	Scope 0P+4C 0P+4C	Semester Z L	Role J J
equirement co redits in the gr ote on the gro 5JZ3A 5JZ4A	Points in the group: In this group you have to gain 6 to purses in the group: In this group you have to complete to complete to gain 6 to purses in the group: In this group you have to complete to gain 6 to purses in the group: 6 Up: 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.) Foreign Language - English 3 Markéta Vojanová, Dana Boušová, Marie Michlová, Barbora Horá ková, Jan Feit, Markéta Musilová, Peter Morpuss, Lenka Monková, Jitka He manová, Foreign Language - English 4	Completion	Ses Credits 3 3	Scope 0P+4C 0P+4C	Semester Z L	Role J J
equirement co redits in the gro ote on the gro 5JZ3A 5JZ4A	Pedits in the group: In this group you have to gain 6 do purses in the group: In this group you have to complete pourses in the group: In this group you have to complete pourses in the group: In this group you have to complete pourses in the group: In this group you have to complete pourses in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.) Foreign Language - English 3 Markéta Vojanová, Dana Boušová, Marie Michlová, Barbora Horá ková, Jan Feit, Markéta Musilová, Peter Morpuss, Lenka Monková, Jitka He manová, Foreign Language - English 4	Completion	Ses Credits 3 3 zyk PIL,	Scope 0P+4C 0P+4C IUL 5.6.	Semester Z L sem 12/13	Role J J
equirement co redits in the gr ote on the gro 5JZ3A 5JZ4A haracteristics of the 5JZ3A	Pourses in the group: In this group you have to gain 6 of purses in the group: In this group you have to complete oup: 6 Up: 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.) Foreign Language - English 3 Markéta Musilová, Peter Morpuss, Lenka Monková, Jitka He manová, Foreign Language - English 4 the courses of this group of Study Plan: Code=JZ-PIL,TUL 3,4 12 Foreign Language - English 3	Completion	Ses Credits 3 3 zyk PIL, 7	Scope 0P+4C 0P+4C IUL 5.6.	Semester Z L sem 12/13 Z	Rol J J

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

3

Z,ZK

and their features; terminology.

and their features; terminology.

Foreign Language - English 4

15JZ4A

	List of courses of this pass:		
Code	Name of the course	Completion	Credits
00TVC1	Physical Education 1	Z	1
Practical instruction	on and training in a wide variety of sports and games: from basic recreational coaching to competitive top level training. Included are:	basketball, volleyb	all, soccer,
	tennis, squash, floorball, bodybuilding, swimming, canoeing, aerobic.		
00TVC2	Physical Education 2	Z	1
Practical instruction	on and training in a wide variety of sports and games: from basic recreational coaching to competitive top level training. Included are:	basketball, volleyb	all, soccer,
	tennis, squash, floorball, bodybuilding, swimming, canoeing, aerobic.		
11FY1	Physics 1	Z,ZK	4
Kiner	natics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodynamics, electric field, directe	d electric current.	'
11FY2	Physics 2	Z,ZK	4
Magnetic field, ele	ctromagnetic field. Optics, quantum character of electromagnetic radiation. Introduction into quantization, hydrogen atom. Multi-electr solid body physics.	on atoms, the nucl	ei. Basics of
11GIE	Geometry	KZ	3
Differential geome	etry of curves - parameterization, the arc of the curve, torsion and curvature, Frenet's trihedron. Kinematics - a curve as a trajectory c acceleration of a particle moving on a curved path.	of the motion, the v	elocity, and
11LA	Linear Algebra	Z,ZK	3
Vector spaces (line	ear combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and the their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classificat	ir solvability. Deternion.	minants and
11MTA	Mathematical Analysis	Z,ZK	4
Sequences and se	ries of real numbers and its convergence. Basic properties of functions. Differential and integral calculus of the real function of one real series and foundations of Fourier transform.	variable. Power se	ries, Fourier
12PKD	Rail Transport Designing	Z,ZK	3
Railway lines netw	ork. Vehicle and track relation. Traction. Track geometrical parameters. Clearance profile. Railway lines routing. Superstructure and su	bstructure of the ra	ailway lines.
	Switches. Railway stations. City rail transport.		

	Designing Deside Ulinhurses and Materianses	1/7	0
12PPOK	Designing Roads, Highways and Motorways	KZ	3
Definition, types, ow	vnership, maintenance, management and categorization of roads and highways. Curve and transition curve. Sinuosity and standard	speed. Route in r	ural areas.
Range of vision for st	opping and overtaking. Road body - shapes and proportions, bottom and superstructure. Drainage and components of roads. Safet	y device. Crossing	s, junctions,
	intersections.		
	Introduction to Transportation Engineering	774	2
			5
Traffic survey. Terresti	rial roads. Residential zone. Land - use planning. Railway transport. Public mass transport. Integrated traffic systems. Traffic progno-	sis. Traffic safety. A	ir transport.
	Traffic and environment.		
13E	Economics	Z.7K	3
Microoconomic an	d macroscopamic interpretation of oconomic relations. Method and subject of the oconomics. Economic decision making of consult	nors and producor	n Markot
	diffactoeconomic metpletation of economic relations, method and subject of the economic seconomic decision making of consul-	ners and producer	5. Mai ket
	structures. Labour and capital, eniciency, ownership, public choice.		
14DB	Database Systems	KZ	2
Basic concepts of c	database systems, conceptual model, relational data model, the principles of normal forms, relational database design, security an	d integrity of data,	database
	ueries, relational algebra, SQL language, client / server, multilaver architectures, distributed database systems. Access to data via i	the WWW.	
4.410)/0		1/7	0
141515	Information Systems	KZ	2
State-of-the-art tools	s of objects control (control and planning) including problems related to these toole use, theory of information and knowledge, know	ledge and expert s	systems, IS
	planning methodologies, transaction systems, theory of computer networks, semantic webs and sensitivity analysis.		
14SIAP	Networks and Protocols	K7	2
Basic communicatio	model history and development of the internet principle of data trapefor through computer networks (TCP/IP) performance of h		
	in model, history and development of the internet, principle of data transfer through computer networks (TCF/H), performance of b	asic network proto	
RARP, TCP, UDP, Telr	net, FTP, DNS, DHCP POP3, IMAP), data acquirement from the Internet sources, communicating ability via the Internet and fundame	entals of own web p	presentation
	design by the means of web sites.		
14UATT	Introduction to Automatization and Telecommunication Systems	KZ	2
Basic axioms of tec	choical cybernetics, automatization in transportation, human as the weakest element signalling transportation, modelling and pro-	iecting of transport	
integrated technologi		dulating of transport	systems,
integrated technologi	cal and information system in post, principle of telecommunication signal transmission, solving of telecommunication networks, mo	dulating methods,	muitimediai
	networks and services, NGN networks.		
14UPRO	Introduction to Programming	KZ	2
Algorithm developm	nent methods of structured programming, high-level programming languages, basics of C programming languages (types, variable	s conditions cycle	es arravs
/ agenant developit			so, anayo,
14ZAET	Fundamentals of Electrotechnics	KZ	2
Basic electrotechnic	terms, circuit quantities. Periodic courses characteristics. Electric circuits elements and basic circuit members. Assignating of bipol	es and basic circui	it elements.
Solution to direct curre	ent circuits with a help of circuit analysis elementar methods; method of consecutive reduction, unloaded voltage divider, current divide	r. Transfiguration st	ar-triplangel
	and principle of superposition in direct current circuits	0	1 0
			-
14ZINF	Fundamentals of Informatics	KZ I	2
Introduction to facul	Ity network, MS-Word and Open Office, use of styles and advanced features, computer functions and information transmission. Nur	nber systems incl.	arithmetic
calculations. Algorithr	ms and their proprieties. Flow charts for algorithms drawing. Mathematic and logic ordering algorithms incl. functions and procedures	3. Work with MS-E>	cel - tables,
-	graphs, calculations, functions,		
45 174 0		7	2
	Foleign Language - English T	Z	3
Grammatical Structur	es and Style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and col	mmunicative skills.	Elementary
S	tylistics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles of	of rhetoric.	
15JZ1F	Foreign Language - French 1	7	3
Grammar structure	e and stylistics. Conversational and specialised tonics selected according to the language group level and with regard to the Eacult	v's fields of study !	
improvement in per	can a dynamica companiational ana operationed topics enforced according to the hanguage group rever and with regard to the radius	and written forme	Technical
	teepuve and communicative skiils, widening the vocabulary. Basic kinds of compositions. Presentations of own initialings in both of a	and whiten joints.	rechnical
	texts and their features; practice of oral and written presentation.		
15JZ1N	Foreign Language - German 1	Z	3
Grammar structure	e and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Faculty	v's fields of study.	Focus on
improvement in per	reative and communicative skills; widening the vocabulary Basic kinds of compositions. Presentations of own findings in both oral	and written forms	Technical
	teepive and communicative skiis, when in the vocabulary. Dask kinds of compositions. I resentations of own influences in both oral	and written joints.	recimical
	texts and their reactives, practice of oral and written presentation.		
15JZ1R	Foreign Language - Russian 1	Z	3
Grammar structure	e and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Facult	/s fields of study.	Focus on
improvement in per	rceptive and communicative skills: widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral	and written forms.	Technical
	taxte and their features: practice of oral and written presentation		
451740	texts and then reactives, practice of oral and written presentation.	· - ·	
15JZ1S	Foreign Language - Spanish 1	Z	3
Grammar structure	e and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Faculty	/s fields of study.	Focus on
improvement in per	rceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral	and written forms.	Technical
	texts and their features: practice of oral and written presentation.		
451704		7 71/	2
ISJZZA	Foreign Language - English 2	Z,ZN	3
Grammatical structure	es and style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and con	mmunicative skills.	Elementary
s	tylistics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles of	of rhetoric.	
15.I72F	Foreign Language - French 2	7 7K	3
Grammar structure	e and stylistics. Conversational and specialised tonics selected according to the language aroun level and with regard to the Fourth	v's fields of study	
improvement in	s and synamics conversion and special conversion up to a service range age group rever and with regard to the Fabulty	and written familie	Toobala-
improvement in per	reepuve and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral	and written forms.	rechnical
	texts and their features; practice of oral and written presentation.		
15JZ2N	Foreign Language - German 2	Z,ZK	3
Grammar structure	e and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Facult	s fields of study	Focus on
improvement in por	reentive and communicative skills: widening the vocabulary Basic kinds of commetions. Dresentations of own findings in both and	and written forms	Technical
	separe and communicative skins, whereing the vocabulary, beau finds of compositions. In eschadors of own informations in Doint Old	and written joints.	iccinical
	texts and their features; practice of oral and written presentation.		
15JZ2R	Foreign Language - Russian 2	Z,ZK	3
Grammar structure	e and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Facult	y's fields of study.	Focus on
improvement in per	rceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral	and written forms	Technical
	texts and their features: practice of oral and written presentation		

15JZ2S	Foreign Language - Spanish 2	Z,ZK	3
Grammar struct	ure and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Faculty	y's fields of study. I	Focus on
	texts and their features: practice of oral and written presentations.	and whiten lonns.	recrimical
15JZ3A	Foreign Language - English 3	Z	3
Grammar structure	e 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	rceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral ar	nd written form. Teo	chnical texts
451744	and their features; terminology.	7 71	0
15JZ4A Grammar structure	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 of Focus on
improvement in per	receptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral ar	neius of study - pilo nd written form. Teo	chnical texts
	and their features; terminology.		
16UDDM	Introduction to Transportation and Manipulation Technics	ZK	2
Means of transporta	ation and transportation systems. Principles, functions and arrangement of means of transportation. Motors and their characteristics. Wat	er transportation.	/lanipulating
	technics. Principles of lifting machines and conveyors. Legislature.		-
18MRI1	Materials 1 Basics of thermodynamics of metals and their alloys Relanced binary diagrams. Alloys of iron with sarbon Deterioration of solid sol		3
	steel and cast irons. Physical features. Mechanical features. Dephectostopic testing. Corosion.	nions. nearing pro	cessing of
18MRI2	Materials 2	ΚZ	2
Fundamen	tal concepts, notions. The main materials groups. Semiconductors. Polymers. Special types of steel. Properties and application of the	composite materi	als.
18ST	Statics	Z,ZK	3
General system	of forces. Calculation of reactions of mass objects and compound systems. Assessment of internal forces on statically determinate b	eam and simple fra	amework.
Principle of virtual v	vorks. Kinematic method for calculation of reactions of statically determinate systems. Determination of axial forces in truss construction	n, method of joints	and method
	Creation of Technical Decumentation	K7	2
Technical standard	s, international standardization, types of technical drawings, representation of technical objects, technical diagrams and charts, dimensional standardization, types of technical drawings, representation of technical objects, technical diagrams and charts, dimensional standardization, types of technical drawings, representation of technical objects, technical diagrams and charts, dimensional standardization, types of technical drawings, representation of technical objects, technical diagrams and charts, dimensional standardization, types of technical drawings, representation of technical objects, technical diagrams and charts, dimensional standardization, types of technical drawings, representation of technical objects, technical diagrams, and charts, dimensional standardization, types of technical drawings, representation of technical objects, technical diagrams, and charts, dimensional standardization, types of technical drawings, representation, types of technical drawings, representation of technical objects, technical drawings, representation, types of technical drawings, representation, technical objects, technical drawings, representation, types of technical drawings, representation, types of technical drawings, representation, technical objects, technical drawings, representation, technical objects, technical drawings, representation, technical drawings, representation, technical objects, technical drawings, representation, technical drawings, rep	nal and geometric	∠ al accuracy.
	arrangement of drawing sheets, types of schemes and their creation.	g	
21CNV	Flight Navigation Training	Z	2
Navigation system	ns destricption and device handling navigation systems, standard arrival and departures routes (STAR, SID), ILS, MLS approach proc	cedures, PAR, SRE	approach
procedures, VOF	R / DME, NDB approach procedures, approach by circuit, visual approach, altimeteres setting procedures, holding procedures, low vis	sibility procedures.	IFR flight
	preparation and operation, examples from General navigation and Radionavigation.	K7	2
The subject acou	Aviation Datain Communication aints students with aviation communication domain. Stress is put on the datalink systems. Students are acquainted both with technic	al aspect and with	∠ operation
	problem so that they are able to understand data flows necessary for provision safe, fluent and economic air traffic.		
21LCP	Human Factor for Pilots	Z,ZK	5
Human factors in av	viation, flight safety, competence of flying personnel, problem areas for pilots, situational awareness, sensory illusions, origins of errors a	nd their prevention	, personality
			· · ·
pred	dispositions, risky behaviour, interpersonal communication, cooperatin & amp; coordination, toxic substances & amp; drugs, ergonomic	cs, automation.	
21LICL	dispositions, risky behaviour, interpersonal communication, cooperatin & coordination, toxic substances & drugs, ergonomic Human Factors in Aviation	cs, automation. KZ	2
21LICL Human performa circulation, sensory	dispositions, risky behaviour, interpersonal communication, cooperatin & coordination, toxic substances & drugs, ergonomic Human Factors in Aviation ce & limitations, capability & competence, accident statistics, flight safety, fundamentals of flight physiology, man & en y system, health & hygiene, health preservation, intoxication, incapacitation, fundamentals of flight psychology, human informatic	cs, automation. KZ vironment, breathin on processing, mer	2 ng & nory &
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		1	1
21PJE1	Instrumentation 1	Z,ZK	2
Basic classification	and construction of flight instruments, electric systems, power plant sensors and instruments, airframe sensors and instruments, measi	urement of air data	parameters.
21PJE2	Instrumentation 2	Z,ZK	4
Earth's magnetic f	ield, magnetic compass, gyroscopic instruments, inertial navigation and reference systems, radio-navigational systems, radars, moni integrated instrument systems.	itoring and recordir	ng systems,
21PLL1	Flight Planning and Performance 1	KZ	4
Basic terms of ma	ass and balance, basic aircraft masses, maximum aircrafts masses, standard weights of passenger, baggage and crew, determination	n of load of aircraft,	loadsheet,
tr	imsheet, determination of centre of gravity, aircraft weighing, overloading of aircraft, influence of centre of gravity position on aircarft	performance.	
21PLL2	Flight Planning and Performance 2	KZ	4
Basic terms in airc	raft performance, basic characteristic speeds, runway characteristics, single and multiengine aircraft performance class B, aircraft per	formance class A,	take off and
	landing performance, after take off and missed approach climb, noise abatement procedures, range of aircraft, drift down, MEL,	ETOPS.	
21PLL3	Flight Planning and Performance 3	Z,ZK	7
Flight planning and	d monitoring, routing, FL and speeds selection, prohibited, restricted and temporary separated areas, ATS routes and conditional route	s, route availability	documents,
CFMU messag	ges - AIM, ANM, CRAM, NAT MNPS, charts, ICAO ATC FPL, RPL, aerodrom operation minimums, fuel plan, decission point procedu	ires, operationa flig	ht plan.
21PPJ	IFR Flights Procedures	KZ	4
Documentation Je	ppesen. IFR approach segments. Precision approach ILS/PAR, MLS. Low Visibility Operation (LVO). Non precision approach - ILS with a second	thout GP, VOR/DM	E, NDB and
SKA. Airport S C	operation minima. Circuit's approach and approach by ground contact. Holding paterns, SID and STAR. GNSS approach. Allimeter se	atting procedures.	FR Ilights
21PSI	Operational Procedures and Related Legislature	K7	ર
General require	ements of ANNEX 6 ICAO. EU-OPS rules. Operational procedures requirements. Requirements for long-haul flights. Special operation	nal procedures and	danger.
21PVY1	Practical Pilot's Training 1	Z	2
Practical exercise	s for improvement of theoretical knowledges within the minimum range of PPL(A), courses 010 to 090 in compliance with JAR FCL 1	This course is co	mpleted by
	verification of theoretical knowledge and practical exam with FTO examinator for practical training.		
21PVY2	Practical Pilot's Training 2	KZ	3
Practical exercises	for improvement of theoretical knowledges needed for commencement of training for acquisition of IR(A) qualification in courses 010	to 090 in complian	ice with JAR
	FCL 1. This course is finished in verification of teoretical knowledge and practical exam with FTO examinator for practical train	ning.	
			1
218713	Practical Pilot's Training 3	KZ	4
21PV13 Practical exercises	Practical Pilot's Training 3 s for improvement of theoretical knowledges needed for finalization of integrated training for acquisition of ATPL(A) qualification in cou	KZ urses 010 to 090 in	4 compliance
Practical exercises with JAR FCL 1. Th	Practical Pilot's Training 3 s for improvement of theoretical knowledges needed for finalization of integrated training for acquisition of ATPL(A) qualification in count is course is finished in verification of teoretical knowledge and practical exam with FTO examinator for practical training. Based on exam ATPL (A) is isolated	KZ Irses 010 to 090 in mination by CAA, th	4 compliance ne certificate
21PV Y3 Practical exercises with JAR FCL 1. Th	Practical Pilot's Training 3 s for improvement of theoretical knowledges needed for finalization of integrated training for acquisition of ATPL(A) qualification in count nis course is finished in verification of teoretical knowledge and practical exam with FTO examinator for practical training. Based on exam ATPL(A) is issued.	KZ urses 010 to 090 in mination by CAA, th	4 compliance ne certificate
21PVY3 Practical exercises with JAR FCL 1. Th 21RFS English for IER	Practical Pilot's Training 3 s for improvement of theoretical knowledges needed for finalization of integrated training for acquisition of ATPL(A) qualification in count is course is finished in verification of teoretical knowledge and practical exam with FTO examinator for practical training. Based on examinator ATPL(A) is issued. Radiotelephony and Communication	KZ urses 010 to 090 in mination by CAA, th KZ	4 compliance ne certificate 4
21PV13 Practical exercises with JAR FCL 1. Th 21RFS English for IFR p broadcasting of t	Practical Pilot 's Training 3 s for improvement of theoretical knowledges needed for finalization of integrated training for acquisition of ATPL(A) qualification in cou- nis course is finished in verification of teoretical knowledge and practical exam with FTO examinator for practical training. Based on exar ATPL(A) is issued.	KZ urses 010 to 090 in mination by CAA, th KZ lard aeronautical fr prmation, HF comm	4 compliance ne certificate 4 azeology, nunication.
21PV13 Practical exercises with JAR FCL 1.Tr 21RFS English for IFR broadcasting of t 21RN	Practical Pilot 's Training 3 s for improvement of theoretical knowledges needed for finalization of integrated training for acquisition of ATPL(A) qualification in cou- his course is finished in verification of teoretical knowledge and practical exam with FTO examinator for practical training. Based on exar ATPL(A) is issued. Radiotelephony and Communication pilots, Ing.Ivan Janouš, Theodore Mikrut, Premisa s.r.o., Praha 1995VFR and IFR communication, basic opertional procedures, stand the numbers, letters, etc., call signs, radio-communication in normal and emergency procedures, loss of communication, weather infor Radionavigation	KZ urses 010 to 090 in mination by CAA, th KZ dard aeronautical fr prmation, HF comm Z,ZK	4 compliance ne certificate 4 azeology, nunication. 6
21PV13 Practical exercises with JAR FCL 1.Tr 21RFS English for IFR broadcasting of t 21RN Ground direction fi	Practical Pilot 's Training 3 s for improvement of theoretical knowledges needed for finalization of integrated training for acquisition of ATPL(A) qualification in cou- itis course is finished in verification of teoretical knowledge and practical exam with FTO examinator for practical training. Based on exar ATPL(A) is issued. Radiotelephony and Communication pilots, Ing.Ivan Janouš, Theodore Mikrut, Premisa s.r.o., Praha 1995VFR and IFR communication, basic opertional procedures, stand the numbers, letters, etc., call signs, radio-communication in normal and emergency procedures, loss of communication, weather infor Radionavigation nder (VDF), ADF, VOR and Doppler VOR, DME, ILS, MLS, ground ATC radar. Airborne Weather Radar, SSR and transponder. Radar	KZ urses 010 to 090 in mination by CAA, th KZ dard aeronautical fr prmation, HF comm Z,ZK utilization for navig	4 compliance he certificate 4 azeology, nunication. 6 nation during
21PV13 Practical exercises with JAR FCL 1.Tr 21RFS English for IFR (broadcasting of t 21RN Ground direction fi the flight. Area na	Practical Pilot 's Training 3 s for improvement of theoretical knowledges needed for finalization of integrated training for acquisition of ATPL(A) qualification in cou- is course is finished in verification of teoretical knowledge and practical exam with FTO examinator for practical training. Based on exar ATPL(A) is issued. Radiotelephony and Communication pilots, Ing.Ivan Janouš, Theodore Mikrut, Premisa s.r.o., Praha 1995VFR and IFR communication, basic opertional procedures, stance the numbers, letters, etc., call signs, radio-communication in normal and emergency procedures, loss of communication, weather info Radionavigation nder (VDF), ADF, VOR and Doppler VOR, DME, ILS, MLS, ground ATC radar. Airborne Weather Radar, SSR and transponder. Radar wigation (RNAV) - general philosophy, particular airborna equipment, indication and sensors for RNAV, VOR/DME (RNAV), adjuction	KZ Irses 010 to 090 in mination by CAA, th KZ dard aeronautical fr ormation, HF comm Z,ZK utilization for navig to autopilot and flig	4 compliance he certificate 4 azeology, nunication. 6 jation during uht director.
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