Study plan

Name of study plan: PP bakal.prez.07/08za átek

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch: Program of study: Welcome page Type of study: unknown full-time

Required credits: 210 Elective courses credits: 0 Sum of credits in the plan: 210

Note on the plan:

Name of the block: Compulsory courses Minimal number of credits of the block: 210

The role of the block: Z

Code of the group: 1.S-PP07/08

Name of the group: 1.s.PP prez.bak.od07/08

made of composite materials in technical drawings. Diagrams. Accuracy of machine parts.

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 at least 8 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
11ATGR	Algebra and Graph Theory	Z,ZK	5	2+2	Z	Z
11GMR	Geometry	Z,ZK	5	2+2		Z
15J1A1	Foreign Language - English 1	Z	2	0+2		Z
11ML1	Mathematics for Aviation 1	Z,ZK	6	2+3		Z
18TEDL	Technical documentation in Avionics	KZ	3	2+1		Z
15TVC1	Physical Education 1	Z	1	0+2		Z
21TPV	Essential Theory for Starting Pilot Training	Z,ZK	5	3+1		Z
14ZI	Basic of Informatics	KZ	3	0+2	Z	Z

1721	Basic of informatics	1112	5	0+2	_	
Characteristics of	the courses of this group of Study Plan: Code=1.S-PP07/08 Name	=1.s.PP prez	z.bak.od0	7/08		
11ATGR	Algebra and Graph Theory			Z	',ZK	5
Vector spaces, vectors,	linear independence, bases. Matrices, rank, trace, linear mapping, special matrices. Syster	m of linear equation	on. Eigenved	ctors and eig	genvalues of	matrices,
similar matrices, the cha	aracteristic matrix and characteristic polynomial of a matrix. Quadratic forms - diagonal forn	n, associated syn	nmetric matr	ix, signature	e, Sylvester´	s Inertia Law.
Basic definitions of Grap	oh Theory (oriented graphs, walk, trail, path, cycle, trees).					
11GMR	Geometry			Z	',ZK	5
Topographic surfaces, C	Orthogonal projection, axonometric projection (orthogonal axonometry, skew projection), pe	rspective projecti	on, curves -	conic section	ons, example	es of plane
curves, basics of differe	ntial geometry of curves: parameterization, arc of the the curve, torsion and curvature, Fren	net`s trihedron, su	urfaces of re	volution, qua	adrics, ruled	quadrics, etc.
15J1A1	Foreign Language - English 1				Z	2
The students of the Fac	ulty of Transportation Sciences study two foreign languages one after another at the Depar	tment of Humani	ties. These c	ourses aim	at providing	sufficient
knowledge to communic	cate about every-day matters but also to read and write and discuss professional and speci	alised issues.<	br> Bot	h gradually	chosen lang	guage courses
are ended with an exam	a (at the end of 4th and 8th semester; the TL (Air Traffic Control) specialisation students take	e an English exar	m only - at th	ne end of 4th	n semester;	the PP
(Professional Pilot) spec	cialisation students take two exams in English - at the end of 4th and 6th semester). Those	students who wa	nt to apply fo	or the Air Tra	affic speciali	zations are
recommended to enrol '	'English language" as their first choice. This is, however, not a guarantee for being excepted	d in the project st	udy. <br&g< td=""><td>t; Our dep</td><td>partment pro</td><td>vides courses</td></br&g<>	t; Our dep	partment pro	vides courses
in English, German, Fre	nch and Russian at different levels. The courses are also taught in our multimedia laborato	ry.				
11ML1	Mathematics for Aviation 1			Z	z,ZK	6
Real and complex numb	pers. Sequences, real function of real variable, composite and inverse functions, limits, cont	tinuity, derivatives	, differentials	s, investigat	ion of function	ons for their
properties. Integral calc	ulus of functions of one variable with applications. Solution of ordinary differential equations	s, separation of va	ariables.			
18TEDL	Technical documentation in Avionics				KZ	3
Technical Standards ap	plies on technical drawings in aerospace manufacture, International Standards and Europe	an Standards. Te	chnical docu	ıments, han	dling of com	puter-based

technical information, management data for technical documents. Technical drawings of airframes and its parts, technical drawings of parts of aircraft engines. Representation of parts

l l	ysical Education 1				Z	1
· · · · · · · · · · · · · · · · · · ·	Education provides instruction in a wide variety of sports and games both in regular of	_			· ·	
	etball, football, tennis, table tennis, athletics, canoeing, orienteering, skiing, gymnastics sociation of the Faculty of Civil Engineering in the field of recreational and competitive		uasn, goir e	tc. The depa	artment closely	cooperates
	sential Theory for Starting Pilot Training	ороги.		7	Z,ZK	5
	n experiences from FTO and will be approved by CAA. The lectures are recommended	for beginners and	content nec			
pilot's training. The areas of	lectures are air traffic and requirements, aircraft, flight planning, human endurance an	d limitations, mete	orology, nav	igation, pro	cedures, aeroc	dynamics
	t;br> \r\nOnly total beginners will be taking optional Theory for pilot's trainin	g beginning class	Pilot licens	e holders (F	PL and higher) don't need
to sign for this class. 14ZI Ba	sic of Informatics				KZ	3
1	isic of filloffilatics ork and faculty information systems. Theory of information - basic terms. Number syst	ems. conversions.	analog / did		I I	-
	he numerical computing systems. Algorithms and their graphical flowchart representat			-		
languages. Engineer compu	tation by specialized software - practical tasks. Classified credit examination.					
Code of the group	p: 2.SPP05/06					
Name of the grou	ıp: 2.sem.PP prez.bak.od05/06					
•	dits in the group: In this group you have to gain 30	credits				
•	irses in the group: In this group you have to comple		10 coi	ıreae		
•	· · · · · · · · · · · · · · · · · · ·	sie ai leasi	. 10 000	11363		
Credits in the gro	•					
Note on the grou		1				
	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their					
Code	members)	Completion	Credits	Scope	Semester	Role
	Tutors, authors and guarantors (gar.)					
11FZL1	Physics for Aviation 1	Z,ZK	5	2+2		Z
15J1A2	Foreign Language - English 2	Z	2	0+2		Z
14KPP1	Computer Aided Design 1 (AutoCAD Basic Steps)	KZ	3	0+2		Z
11ML2	Mathematics for Air Branches 2	Z,ZK	4	2+2		Z
210PC	Air Transport Business	KZ	3	1+1		Z
18TM	Technical Mechanics	Z,ZK	4	2+1		 Z
		Z				
15TVC2	Physical Education 2		1	0+2	-	Z
21ZENP	Basics of Aircraft Electronics	ZK	3	2+0		Z
21ZETP	Basics of Aircraft Electronics	Z,ZK	3	2+1		Z
17ZKP	Introduction to Law	KZ	2	2+0		Z
Characteristics of the	courses of this group of Study Plan: Code=2.SPP05/06 Nam	e=2.sem.PP i	orez.bak.	od05/06		
	ysics for Aviation 1				Z,ZK	5
Kinematics. Dynamics.Therr	•					
	reign Language - English 2 of Transportation Sciences study two foreign languages one after another at the Depa	rtment of Humanit	ies These c	ourses aim	Z at providing su	2 ufficient
	about every-day matters but also to read and write and discuss professional and spec					
are ended with an exam (at	the end of 4th and 8th semester; the TL (Air Traffic Control) specialisation students take	e an English exan	n only - at th	e end of 4t	h semester; the	PP
	ation students take two exams in English - at the end of 4th and 6th semester). Those				-	
-	lish language" as their first choice. This is, however, not a guarantee for being excepte and Russian at different levels. The courses are also taught in our multimedia laborato		ıdy. <br&gi< td=""><td>; Our de</td><td>partment provid</td><td>des courses</td></br&gi<>	; Our de	partment provid	des courses
	omputer Aided Design 1 (AutoCAD Basic Steps)	y.			KZ	3
1	ems" term. CAD task in system projecting model. Concurrent CAD system in Czech ma	rket. Basic AutoCA	AD course in	1		_
options, designs with grid ba	ackground.					
l l	athematics for Air Branches 2				z,zk	4
	n metric spaces, limit of sequence in metric space. Differential calculus of functions of set functions of several variables. Biomedians			-		
of integral calculus in physic	of functions of several variables. Integral calculus of function of several variables, Riema s.	iiiii iiilegiai iii Kii, i	illegiai ovei	cui ves anu	Sullaces III INS	, application
	Transport Business				KZ	3
	egulations, civil aviation organizations, IATA, ICAO, ERA, BSP, research of market in a	r transport, advert	ising, sched	1		
=	ing, cancellations, international tickets, MCO, foreign agencies and booking offices, in	ternational air tran	sporters agi	eements, N	/linistry of Trans	sport and its
	ational and national aviation associations.			-	7 71/	
	chnical Mechanics vsical Education 2				Z,ZK Z	1
	lysical Education 2 Education provides instruction in a wide variety of sports and games both in regular c	ourses during the	term and in	l winter and		-
· · · · · · · · · · · · · · · · · · ·	etball, football, tennis, table tennis, athletics, canoeing, orienteering, skiing, gymnastics	_			· ·	
	sociation of the Faculty of Civil Engineering in the field of recreational and competitive	sport.				
	sics of Aircraft Electronics			_	ZK	3
	sics of Aircraft Electronics				Z,ZK	3
l l	roduction to Law w. The rule of law. Constitutional law. Public law. Substantive and procedural civil law.	Commercial law T	rading busin	1	KZ na permit proce	2 edure
	Cabolantive and procedural civil law.	or oral law. I		- Jos. Danali	-5 P2 P1000	

Criminal and violation law. Law of nations, European Union and community law.

Code of the group: 3.S.PP-05/06

Name of the group: 3.s.PP prez.bak.od05/06

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 at least 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
11FZL2	Physics for Aviation 2	Z,ZK	5	2+2		Z
21LPNV	FR Flights, Night-time Flying and Multiengine Aircraft Flying	KZ	5	3+1		Z
21LRT	Radio Technology in Aviation	Z,ZK	4	3+1		Z
21LMO	Aircraft Engines	Z,ZK	4	3+1		Z
21LPY1	Requirements in Aviation 1	Z,ZK	4	2+1		Z
21ON	General Navigation	KZ	4	3+1		Z
21RTS	Radio Communication	Z,ZK	4	2+1		Z

Characteristics of the courses of this group of Study Plan: Code=3.S.PP-05/06 Name=3.s.PP prez.bak.od05/06

11FZL2	Physics for Aviation 2	Z,ZK	5					
Electric Current. Magne	tic field. Electromagnetic Induction. Electromagnetic Waves, Light. Geometric Optics, Physical Optics. Interaction of Radiation	with Matter. Quar	ntization. Atoms.					
Solid State Physics. Se	miconductors.							
21LPNV	FR Flights, Night-time Flying and Multiengine Aircraft Flying	KZ	5					
21LRT	Radio Technology in Aviation	Z,ZK	4					
Electric signals and the	wave spectrum, modulations - amplitude, frequency and phase, impulse modulation, resonance circuits, electromagnetic field	l, wave range in a	viation, radiation					
and reception of electro	magnetic field, antennas in aviation, receivers and transmitters, basic navigation parameters and their measurements, princi	ples of measurem	ents of angle					
navigation parameters,	distance, altitude, speed, drift angle, hyperbolic navigation system, Earth's satellites, GPS, ground radio navigation systems,	NDB, VOR, DVO	R, TVOR, DME,					
ILS, MLS, radiolocation	in aviation, monitors in aviation \r\nThe lector of this subject has to have passed an exam at CAA following	JAR - FCL 1.						
21LMO	Aircraft Engines	Z,ZK	4					
Introduction, physical pr	inciples, energetic demands of plane powering, energy transformations, ecology aspects, engines and their classification, pis	ton engines - engi	ine construction,					
heat circulation and cha	rracteristics, jet engines - their classification, engine construction, heat circulation and characteristics, engine operation and m	naintenance, techr	nology and used					
materials, engine projec	ting.							
21LPY1	Requirements in Aviation 1	Z,ZK	4					
Introduction to aviation	requirements, scope of Civil Aviation Authority of Czech Republic, ICAO Annexes 1 - 18, Czech aviation requirements L1 - L	18, scope of JAA	(Joint Aviation					
Authority), JAR requirer	nents FCL 1 (requirements for flight crews) and FCL 3 (medical fitness), JAR operation requirements for civil aviation, JAR requ	uirements for aircr	aft certifications,					
analysis and explanatio	n of requirements L2, L6, L10, L11, L14, L16, L4444, L8168.							
210N	General Navigation	KZ	4					
Earth - shape, circumfe	rence and diameter, latitude and longitude, large and small circle, loxodrome and orthodrome, mathematical calculations of l	oxodrome and ort	hodrome, maps					
and projections, sphere	trigonometry, ICAO and Jeppeson maps, time calculations (UTC, GMT, LNT, ZT) and time zones, calculative navigation and	navigation by						
pilotage. <br< td=""><td colspan="8">pilotage. \klt;br>\r\nThe lector of this subject has to have passed an exam at CAA following JAR - FCL 1.</td></br<>	pilotage. \klt;br>\r\nThe lector of this subject has to have passed an exam at CAA following JAR - FCL 1.							
21RTS	Radio Communication	Z,ZK	4					
Radiotelephony spelling	adiotelephony spelling alphabet, Czech radio telecommunication law, telecommunication secret, radio communication operation, radio communication requirements, distress radio							

Code of the group: 4.S.PP05/06

Name of the group: 4.s.PP prez.bak.od05/06

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 at least 8 courses

correspondence.
\klt;br>\r\nThe lectures are following the requirements for obtaining general radiotelephonist's certificate at Czech Telecommunication Office.

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
15JPA4	Foreign Language - English 4	Z,ZK	3	0+2		Z
21LLA1	Aircraft 1	KZ	4	2+1		Z
21LPY2	Aviation Regulations 2	Z,ZK	4	2+1		Z
21MEO	Meteorology	KZ	4	2+2		Z
21PRE1	Flight Instruments 1	Z,ZK	4	3+1		Z
21R	Radionavigation	Z,ZK	5	3+2		Z

21RSL	Radio Communication in Practice	Z	2	0+2	Z
21ZLU1	Principles of Flight 1	KZ	4	2+1	Z

Characteristics of the courses of this group of Study Plan: Code=4.S.PP05/06 Name=4.s.PP prez.bak.od05/06

15JPA4 Foreign Language - English 4 Z,ZK 3

The students of the Faculty of Transportation Sciences study two foreign languages one after another at the Department of Humanities. These courses aim at providing sufficient knowledge to communicate about every-day matters but also to read and write and discuss professional and specialised

issues.
&nbsp;&nbsp

21LLA1 | Aircraft 1 | KZ | 4

Evolution of aircraft constructions, aircraft classification, basic parts of aircraft and their function, wings of low speed aircraft - construction scheme, shapes and components, wings of high speed aircraft, wings with changeable geometry, direct lift control, wing mechanization, increase of lift and drag, longitudinal stability and control, flaps, spoilers, interceptors, ailerons.
\v\nThe lector of this subject has to have passed an exam at CAA following JAR - FCL 1.

21LPY2 Aviation Regulations 2 Z,ZK 4

Introduction to aviation requirements, scope of Civil Aviation Authority of Czech Republic, ICAO Annexes 1 - 18, Czech aviation requirements L1 - L 18, scope of JAA (Joint Aviation Authority), JAR requirements FCL 1 (requirements for flight crews) and FCL 3 (medical fitness), JAR operation requirements for civil aviation, JAR requirements for aircraft certifications, analysis and explanation of requirements L2, L6, L10, L11, L14, L16, L4444, L8168.

21MEO Meteorology KZ 4

Composition of Earth atmosphere, International Standard Atmosphere, vertical changes, relations among pressure, density, temperature and altitude, pressure settings QNH, QFE, QFF, QME, air instability, atmospheric fronts, atmospheric precipitation and classification, turbulence, conditions, forces creating wind, cyclone and anticyclone, gradient wind, visibility in aviation, weather hazards, meteorological maps, climatology, circulation, intertropic front, meteo reports, meteorological organizations.

21PRE1 | Flight Instruments 1 | Z,ZK | 4

Classification of instruments and their requirements, instrument panel layout depending on the type of aircraft, sensors and active parts, sources of electric power and power circuit on board, measuring of fuel pressure and oil temperature, measuring of cylinder head temperature and temperature of entering and exhaust gas, fuel system, total and immediate consumption, measuring of RPM and vibrations, construction control instruments, icing signalization, barometric instruments - altimeter, variometers, aerometric instruments - speedometer and mach meter, measuring of angle of impact and air temperature, methods of instrument use, instruments and pilot's attention.

Navigational use of instruments (RC/NDB, VOR, DME, ILS, MLS), space navigation, astronavigation and satellite navigation.
\klt;br>

passed an exam at CAA following JAR - FCL 1.

21RSI Radio Communication in Practice 7 2

21RSL Radio Communication in Practice Z 2
Shortcuts used in air traffic, Q - codes, message categories, transmitting letters, numbers and times in aviation, standard words and phrases, important phrases used in meteorological

reports, emergency procedures, procedures for VFR flights, procedures for IFR flights, procedures following requirements L10 and L4444.

21ZLU1 Principles of Flight 1 KZ 4

Aerodynamic drag, relation between drag and speed, air flow, formula of continuity, formula of Bernoulli, lift and drag, air flow and pressures around wing, angle of attack, reactions of a wing in air flow, lift and drag of a wing and a aircraft, coefficient of lift and drag, critical angle of attack, wing with final span, induced drag, interference, devices for lift and drag increase <br&qt;\kli;br&q

Code of the group: 5.S.PP-08/09

Name of the group: 5.s.PP prez.bak.od08/09

Radionavigation

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 at least 9 courses

Credits in the group: 30

Note on the group:

21R

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
21CLP	Training in the Laboratory of Flight Planning and Monitoring	Z	2	0+2		Z
21CN	Flight Navigation Training	KZ	2	0+2		Z
15JA5	Foreign Language - English 5	Z	2	0+2		Z
21LVPM	Multiengine Aircraft and Multicrew Cooperation	KZ	4	3+1	L	Z
21LMEO	Meteorology in Aviation	Z,ZK	3	1+1		Z
21LTTE	Aerodromes	Z,ZK	4	2P+1C+12B	B L	Z
21PPJ2	Flight Instruments 2	Z,ZK	4	3+1		Z
21PAP1	Flight Planning and Monitoring 1	KZ	5	3+1		Z
21ZLE2	Principles of Flight 2	Z,ZK	4	2+1	Z	Z

Characteristics of the courses of this group of Study Plan: Code=5.S.PP-08/09 Name=5.s.PP prez.bak.od08/09

21CLP	Training in the Laboratory of Flight Planning and Monitoring	Z	2
21CN	Flight Navigation Training	KZ	2

Foreign Language - English 5

The students of the Faculty of Transportation Sciences study two foreign languages one after another at the Department of Humanities. These courses aim at providing sufficient knowledge to communicate about every-day matters but also to read and write and discuss professional and specialised issues.
 Both gradually chosen language courses are ended with an exam (at the end of 4th and 8th semester; the TL (Air Traffic Control) specialisation students take an English exam only - at the end of 4th semester; the PP (Professional Pilot) specialisation students take two exams in English - at the end of 4th and 6th semester). Those students who want to apply for the Air Traffic specializations are recommended to enrol "English language" as their first choice. This is, however, not a guarantee for being excepted in the project study.
 Our department provides courses in English, German, French and Russian at different levels. The courses are also taught in our multimedia laboratory.

21LVPM Multiengine Aircraft and Multicrew Cooperation

Coordination directive with regard to FTOs for practical training, and concurrently meeting requirements for multicrew cooperation according to Ammedment 1 JAR- FCL1.261(d)- MCC. The scope is determined in compliance with AMC FCL 1.261(d).

21LMEO Meteorology in Aviation Z,ZK

Composition of Earth atmosphere, International Standard Atmosphere, vertical changes, relations among pressure, density, temperature and altitude, pressure settings QNH, QFE, QFF, QME, air instability, atmospheric fronts, atmospheric precipitation and classification, turbulence, conditions, forces creating wind, cyclone and anticyclone, gradient wind, visibility in aviation, weather hazards, meteorological maps, climatology, circulation, intertropic front, meteo reports, meteorological organizations.
\klt;br>\klt;br>\r\nThe lector of this subject has to have passed an exam at CAA following JAR - FCL 1.

21LTTE Aerodromes

Aerodrome reference point and temperature, TORA, TODA, ASDA, LDA. Taxiway and apron. Clearway. Stopway. Obstacle limitation surfaces. Runway marking. Runway zone lights. Environmental conditions. Public traffic.

21PPJ2 Flight Instruments 2 Z.ZK

Practical habits of pilots, making decision in emergency situations, complex aerometric systems, mechanical gyroscopes, types and characteristics, artificial horizon, corrections, turn and slip indicators, acceleration meters, magnetic compasses, sensors of Earth's magnetic field, gyroscopic direction indicator, inertial navigation system, acceleration meters of inertial systems, laser gyroscopes, inertial course vertical indicator, signal processing, block setting of inertial systems, complex processing of flight and navigation parameters, cockpit monitors and displays, head-up displays.

21PAP1 Flight Planning and Monitoring 1

Weight, balance, load, center of gravity, efficiency - single engine planes, efficiency - multiengine planes.

\r\nThe lector of this subject has to have passed an exam at CAA following JAR - FCL 1.

Principles of Flight 2

Ways of producing thrust, propeller, jet propulsion, thrust and momentum, propulsion efficiency, aerodynamics of fixed and variable pitch propeller, propeller operation modes, propeller airstream effect, gyroscopic effect, balance of forces in horizontal flight, glide and landing, performances, take off and climb, acceleration, positive load, manoeuvres, stability and controllability, transsonic speeds.

Code of the group: 6.S.PP08/09

Name of the group: 6.s.PP prez.bak.od08/09

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 at least 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
15JPA6	Foreign Language - English 6	Z,ZK	2	0+2		Z
21L2	Aircraft 2	Z,ZK	4	3+1		Z
21LO	Human Performance and Limitations	Z,ZK	5	3+2		Z
21PAP2	Flight Planning and Monitoring 2	Z,ZK	5	3+1		Z
21PLPP	IFR Flights Procedures	Z,ZK	4	2+1		Z
21PPU	Operational Procedures	Z,ZK	5	2+1		Z
21SBP1	Bachelor Thesis Seminar 1	KZ	5	0+5		Z

Characteristics of the courses of this group of Study Plan: Code=6.S.PP08/09 Name=6.s.PP prez.bak.od08/09

Foreign Language - English 6 Z,ZK The students of the Faculty of Transportation Sciences study two foreign languages one after another at the Department of Humanities. These courses aim at providing sufficient knowledge to communicate about every-day matters but also to read and write and discuss professional and specialised

issues.<:br>:&:nbsp TL (Air Traffic Control) specialisation students take an English exam only - at the end of 4th semester; the PP (Professional Pilot) specialisation students take two exams in English at the end of 4th and 6th semester). Those students who want to apply for the Air Traffic specializations are recommended to enrol "English language" as their first choice. This is, however, not a guarantee for being excepted in the project study.
&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;Our department provides courses in English,

German, French and Russian at different levels. The courses are also taught in our multimedia laboratory. 21L2

Z,ZK Aircraft body, landing gear, tail, directional stability and control, problems with projects, performance envelope, load factor, technologies used in aircraft construction, materials used in construction, fuel system, oil system, electric circuit, ice control system, anti-fire system, control systems.

Human Performance and Limitations

4

Human factors in aviation, qualifications, limitations, accident statistics, flight safety, basic of physiology in aviation and health preserving.

\r\nThe lector of this subject has to have passed an exam at CAA following JAR - FCL 1.

21PAP2 Flight Planning and Monitoring 2 Z.ZK

5

Flight plan ATC ICAO, practical flight planning, planning IFR flight (corridors), planning jet airplane flight, practical flight plan processing,
\klr;br>\klr;br>\r\nThe lector of this subject has to have passed an exam at CAA following JAR - FCL 1.

21PLPP IFR Flights Procedures Z.ZK

21PPU	Operational Procedures	Z,ZK	5
System of quality, fuel of	uantity needed for given flight and given aircraft, MTOW, MNPS NAT.		
21SBP1	Bachelor Thesis Seminar 1	KZ	5

Code of the group: 7S-PP-05/06

Name of the group: 7.s.PPod05/06-prezen ní

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 at least 2 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
21BPPP	Bachelor Thesis	Z	20	0+18		Z
21SB2	Rachalor Thesis Seminar 2	7	10	0+8		7

Characteristics of the courses of this group of Study Plan: Code=7S-PP-05/06 Name=7.s.PPod05/06-prezen ní

	The comment of the group of comments and the control of the contro		
21BPPP	Bachelor Thesis	Z	20
21SB2	Bachelor Thesis Seminar 2	Z	10

List of courses of this pass:

Code	Name of the course	Completion	Credits
11ATGR	Algebra and Graph Theory	Z,ZK	5
Vector spaces, v	ectors, linear independence, bases. Matrices, rank, trace, linear mapping, special matrices. System of linear equation. Eigenvectors a	and eigenvalues of	matrices,
similar matrices, t	he characteristic matrix and characteristic polynomial of a matrix. Quadratic forms - diagonal form, associated symmetric matrix, signa	ature, Sylvester's I	Inertia Law
	Basic definitions of Graph Theory (oriented graphs, walk, trail, path, cycle, trees).		
11FZL1	Physics for Aviation 1	Z,ZK	5
	Kinematics. Dynamics. Thermodynamics. Electric field.		
11FZL2	Physics for Aviation 2	Z,ZK	5
Electric Current. M	agnetic field. Electromagnetic Induction. Electromagnetic Waves, Light. Geometric Optics, Physical Optics. Interaction of Radiation wit Solid State Physics. Semiconductors.	h Matter. Quantiza	tion. Atoms
11GMR	Geometry	Z,ZK	5
Topographic surf	aces, Orthogonal projection, axonometric projection (orthogonal axonometry, skew projection), perspective projection, curves - conic	sections, example	s of plane
curves, basics of c	lifferential geometry of curves: parameterization, arc of the the curve, torsion and curvature, Frenet's trihedron, surfaces of revolution,	quadrics, ruled qu	uadrics, etc
11ML1	Mathematics for Aviation 1	Z,ZK	6
Real and comple	x numbers. Sequences, real function of real variable, composite and inverse functions, limits, continuity, derivatives, differentials, inve	stigation of function	ns for their
	properties. Integral calculus of functions of one variable with applications. Solution of ordinary differential equations, separation of variables with applications.	ariables.	
11ML2	Mathematics for Air Branches 2	Z,ZK	4
Metric spaces, sec	uences in metric spaces, limit of sequence in metric space. Differential calculus of functions of several variables, differential of functio	n, partial derivatio	ns, implicit
defined functions,	extremes of functions of several variables. Integral calculus of function of several variables, Riemann integral in Rn, integral over curves a	and surfaces in R3	, applicatio
	of integral calculus in physics.		
14KPP1	Computer Aided Design 1 (AutoCAD Basic Steps)	KZ	3
Determination of "0	CAD Systems" term. CAD task in system projecting model. Concurrent CAD system in Czech market. Basic AutoCAD course in 2D env	ironment, user sett	tings, outpu
	options, designs with grid background.		
14ZI	Basic of Informatics	KZ	3
Introduce to the fa	culty network and faculty information systems. Theory of information - basic terms. Number systems, conversions, analog / digital rep	resentation of the i	information
Architecture and a	ctivity of the numerical computing systems. Algorithms and their graphical flowchart representation. Algorithm development and solut	ion finding by simp	ole progran
	languages. Engineer computation by specialized software - practical tasks. Classified credit examination.		
15J1A1	Foreign Language - English 1	Z	2
The students of	the Faculty of Transportation Sciences study two foreign languages one after another at the Department of Humanities. These course	s aim at providing	sufficient
•	municate about every-day matters but also to read and write and discuss professional and specialised issues. Both gradu		•
	an exam (at the end of 4th and 8th semester; the TL (Air Traffic Control) specialisation students take an English exam only - at the en		•
,	ot) specialisation students take two exams in English - at the end of 4th and 6th semester). Those students who want to apply for the	•	
recommended to e	enrol "English language" as their first choice. This is, however, not a guarantee for being excepted in the project study. Our	department provid	des course
	in English, German, French and Russian at different levels. The courses are also taught in our multimedia laboratory.		1
15J1A2	Foreign Language - English 2	Z	2
	the Faculty of Transportation Sciences study two foreign languages one after another at the Department of Humanities. These course		
knowledge to com	municate about every-day matters but also to read and write and discuss professional and specialised issues.&Itbr> Both gradu	ally chosen langua	age course

are ended with an exam (at the end of 4th and 8th semester; the TL (Air Traffic Control) specialisation students take an English exam only - at the end of 4th semester; the PP (Professional Pilot) specialisation students take two exams in English - at the end of 4th and 6th semester). Those students who want to apply for the Air Traffic specializations are

recommended to enrol "English language" as their first choice. This is, however, not a guarantee for being excepted in the project study.
 Our department provides courses in English, German, French and Russian at different levels. The courses are also taught in our multimedia laboratory. 15JA5 Foreign Language - English 5 7 2 The students of the Faculty of Transportation Sciences study two foreign languages one after another at the Department of Humanities. These courses aim at providing sufficient knowledge to communicate about every-day matters but also to read and write and discuss professional and specialised issues.
 Both gradually chosen language courses are ended with an exam (at the end of 4th and 8th semester; the TL (Air Traffic Control) specialisation students take an English exam only - at the end of 4th semester; the PP (Professional Pilot) specialisation students take two exams in English - at the end of 4th and 6th semester). Those students who want to apply for the Air Traffic specializations are recommended to enrol "English language" as their first choice. This is, however, not a guarantee for being excepted in the project study. <:br&at: Our department provides courses in English, German, French and Russian at different levels. The courses are also taught in our multimedia laboratory. 15JPA4 Foreign Language - English 4 3 The students of the Faculty of Transportation Sciences study two foreign languages one after another at the Department of Humanities. These courses aim at providing sufficient knowledge to communicate about every-day matters but also to read and write and discuss professional and specialised issues.
&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;Both gradually chosen language courses are ended with an exam (at the end of 4th and 8th semester; the TL (Air Traffic Control) specialisation students take an English exam only - at the end of 4th semester; the PP (Professional Pilot) specialisation students take two exams in English at the end of 4th and 6th semester). Those students who want to apply for the Air Traffic specializations are recommended to enrol "English language" as their first choice. This is, however, not a guarantee for being excepted in the project study.
&nbsp;&nbsp;&nbsp;&nbsp;Our department provides courses in English, German, French and Russian at different levels. The courses are also taught in our multimedia laboratory. 15JPA6 Foreign Language - English 6 Z.ZK 2 The students of the Faculty of Transportation Sciences study two foreign languages one after another at the Department of Humanities. These courses aim at providing sufficient knowledge to communicate about every-day matters but also to read and write and discuss professional and specialised issues.
&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;Both gradually chosen language courses are ended with an exam (at the end of 4th and 8th semester; the TL (Air Traffic Control) specialisation students take an English exam only - at the end of 4th semester; the PP (Professional Pilot) specialisation students take two exams in English at the end of 4th and 6th semester). Those students who want to apply for the Air Traffic specializations are recommended to enrol "English language" as their first choice. This is, however, not a guarantee for being excepted in the project study.
&nbsp;&nbsp;&nbsp;&nbsp;Our department provides courses in English, German, French and Russian at different levels. The courses are also taught in our multimedia laboratory. Physical Education 1 The Department of Physical Education provides instruction in a wide variety of sports and games both in regular courses during the term and in winter and summer sport courses. Included are volleyball, basketball, football, tennis, table tennis, athletics, canoeing, orienteering, skiing, gymnastics, bodybuilding, squash, golf etc. The department closely cooperates with the Academic Sport Association of the Faculty of Civil Engineering in the field of recreational and competitive sport. Physical Education 2 The Department of Physical Education provides instruction in a wide variety of sports and games both in regular courses during the term and in winter and summer sport courses. Included are volleyball, basketball, football, tennis, table tennis, athletics, canoeing, orienteering, skiing, gymnastics, bodybuilding, squash, golf etc. The department closely cooperates with the Academic Sport Association of the Faculty of Civil Engineering in the field of recreational and competitive sport. Introduction to Law 2 Theoretical foundations of law. The rule of law. Constitutional law. Public law. Substantive and procedural civil law. Commercial law. Trading business. Building permit procedure. Criminal and violation law. Law of nations, European Union and community law. 18TFDI Technical documentation in Avionics ΚZ 3 Technical Standards applies on technical drawings in aerospace manufacture, International Standards and European Standards. Technical documents, handling of computer-based technical information, management data for technical documents. Technical drawings of airframes and its parts, technical drawings of parts of aircraft engines. Representation of parts made of composite materials in technical drawings. Diagrams. Accuracy of machine parts. 18TM **Technical Mechanics** Z,ZK 4 21BPPP **Bachelor Thesis** Ζ 20 21CLP Training in the Laboratory of Flight Planning and Monitoring Ζ 2 21CN Flight Navigation Training ΚZ 2 Z.ZK 211.2 Aircraft 2 4 Aircraft body, landing gear, tail, directional stability and control, problems with projects, performance envelope, load factor, technologies used in aircraft construction, materials used in construction, fuel system, oil system, electric circuit, ice control system, anti-fire system, control systems. 21LLA1 Aircraft 1 Evolution of aircraft constructions, aircraft classification, basic parts of aircraft and their function, wings of low speed aircraft - construction scheme, shapes and components, wings of high speed aircraft, wings with changeable geometry, direct lift control, wing mechanization, increase of lift and drag, longitudinal stability and control, flaps, spoilers, interceptors, ailerons.

\r\nThe lector of this subject has to have passed an exam at CAA following JAR - FCL 1. 21LMEO Meteorology in Aviation Z,ZK 3 Composition of Earth atmosphere, International Standard Atmosphere, vertical changes, relations among pressure, density, temperature and altitude, pressure settings QNH, QFE, QFF, QME, air instability, atmospheric fronts, atmospheric precipitation and classification, turbulence, conditions, forces creating wind, cyclone and anticyclone, gradient wind, visibility in aviation, weather hazards, meteorological maps, climatology, circulation, intertropic front, meteo reports, meteorological organizations. <br&qt;<br&qt;\r\nThe lector of this subject has to have passed an exam at CAA following JAR - FCL 1. Aircraft Engines Introduction, physical principles, energetic demands of plane powering, energy transformations, ecology aspects, engines and their classification, piston engines - engine construction, heat circulation and characteristics, jet engines - their classification, engine construction, heat circulation and characteristics, engine operation and maintenance, technology and used materials, engine projecting. 21LO **Human Performance and Limitations** 5 Human factors in aviation, qualifications, limitations, accident statistics, flight safety, basic of physiology in aviation and health preserving.

\r\nThe lector of this subject has to have passed an exam at CAA following JAR - FCL 1. 21LPNV ΚZ FR Flights, Night-time Flying and Multiengine Aircraft Flying 5 21LPY1 Requirements in Aviation 1 Z.ZK Introduction to aviation requirements, scope of Civil Aviation Authority of Czech Republic, ICAO Annexes 1 - 18, Czech aviation requirements L1 - L 18, scope of JAA (Joint Aviation Authority), JAR requirements FCL 1 (requirements for flight crews) and FCL 3 (medical fitness), JAR operation requirements for civil aviation, JAR requirements for aircraft certifications, analysis and explanation of requirements L2, L6, L10, L11, L14, L16, L4444, L8168. 21LPY2 Aviation Regulations 2 Z,ZK Introduction to aviation requirements, scope of Civil Aviation Authority of Czech Republic, ICAO Annexes 1 - 18, Czech aviation requirements L1 - L 18, scope of JAA (Joint Aviation Authority), JAR requirements FCL 1 (requirements for flight crews) and FCL 3 (medical fitness), JAR operation requirements for civil aviation, JAR requirements for aircraft certifications, analysis and explanation of requirements L2, L6, L10, L11, L14, L16, L4444, L8168.

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21LRT	Radio Technology in Aviation	Z,ZK	4
•	I the wave spectrum, modulations - amplitude, frequency and phase, impulse modulation, resonance circuits, electromagnetic field, we be a specific of the contract of the cont	•	
=	electromagnetic field, antennas in aviation, receivers and transmitters, basic navigation parameters and their measurements, principle		- 1
	ters, distance, altitude, speed, drift angle, hyperbolic navigation system, Earth's satellites, GPS, ground radio navigation systems, NE , radiolocation in aviation, monitors in aviation ∖r∖nThe lector of this subject has to have passed an exam at CAA fol		
21LTTE			
	Aerodromes nce point and temperature, TORA, TODA, ASDA, LDA. Taxiway and apron. Clearway. Stopway. Obstacle limitation surfaces. Runway i	Z,ZK	4
Aerodrome releiel	Environmental conditions. Public traffic.	naiking. Kunway 2	one lights.
21LVPM	Multiengine Aircraft and Multicrew Cooperation	KZ	4
	ive with regard to FTOs for practical training, and concurrently meeting requirements for multicrew cooperation according to Ammedme		-
Coordination direct	The scope is determined in compliance with AMC FCL 1.261(d).	SIIL I JAIN-I OLI.20) (u) - IVICC.
21MEO	Meteorology	KZ	4
_	intereorology Irth atmosphere, International Standard Atmosphere, vertical changes, relations among pressure, density, temperature and altitude, i		
•	ability, atmosphere, memational oranged Atmosphere, vertical changes, relations among pressure, density, temperature and antitude, particularly atmospheric fronts, atmospheric precipitation and classification, turbulence, conditions, forces creating wind, cyclone and antic	_	
Qi i , QiviL, dii iiiote	in aviation, weather hazards, meteorological maps, climatology, circulation, intertropic front, meteo reports, meteorological organi		iria, violollity
210N	General Navigation	KZ	4
	umference and diameter, latitude and longitude, large and small circle, loxodrome and orthodrome, mathematical calculations of loxo		
•	ections, sphere trigonometry, ICAO and Jeppeson maps, time calculations (UTC, GMT, LNT, ZT) and time zones, calculative navigations		
and proje	pilotage. \r\nThe lector of this subject has to have passed an exam at CAA following JAR - FCL 1.	ni ana navigation t	
210PC	Air Transport Business	KZ	3
	aw and its regulations, civil aviation organizations, IATA, ICAO, ERA, BSP, research of market in air transport, advertising, schedules,		
	s, rebooking, cancellations, international tickets, MCO, foreign agencies and booking offices, international air transporters agreement		
rooor valion by olom	role, CAA and its role, international aviation associations.	o, willion y or mane	port and no
21PAP1	Flight Planning and Monitoring 1	KZ	5
	r light Framming and Wormoning T pad, center of gravity, efficiency - single engine planes, efficiency - multiengine planes. \r\nThe lector of this subject		
Weight, balance, ic	at CAA following JAR - FCL 1.	rias to riave passe	ed all exam
21PAP2		Z.ZK	5
	Flight Planning and Monitoring 2 O, practical flight planning, planning IFR flight (corridors), planning jet airplane flight, practical flight plan processing, <br&< td=""><td>, ,</td><td></td></br&<>	, ,	
Flight plan ATC ICA		gi, with the lector of	this subject
040100	has to have passed an exam at CAA following JAR - FCL 1.	7.71/	
21PLPP	IFR Flights Procedures	Z,ZK	4
21PPJ2	Flight Instruments 2	Z,ZK	4
	oilots, making decision in emergency situations, complex aerometric systems, mechanical gyroscopes, types and characteristics, arti		
•	acceleration meters, magnetic compasses, sensors of Earth's magnetic field, gyroscopic direction indicator, inertial navigation system,		
systems, laser gyro	scopes, inertial course vertical indicator, signal processing, block setting of inertial systems, complex processing of flight and navigation	n parameters, cock	pit monitors
	and displays head-ith displays		
048811	and displays, head-up displays.	7.71	
21PPU	Operational Procedures	Z,ZK	5
	Operational Procedures System of quality, fuel quantity needed for given flight and given aircraft, MTOW, MNPS NAT.	,	
21PRE1	Operational Procedures System of quality, fuel quantity needed for given flight and given aircraft, MTOW, MNPS NAT. Flight Instruments 1	Z,ZK	4
21PRE1 Classification of ins	Operational Procedures System of quality, fuel quantity needed for given flight and given aircraft, MTOW, MNPS NAT. Flight Instruments 1 truments and their requirements, instrument panel layout depending on the type of aircraft, sensors and active parts, sources of elect	Z,ZK tric power and pow	4 er circuit on
21PRE1 Classification of ins	Operational Procedures System of quality, fuel quantity needed for given flight and given aircraft, MTOW, MNPS NAT. Flight Instruments 1 truments and their requirements, instrument panel layout depending on the type of aircraft, sensors and active parts, sources of electing of fuel pressure and oil temperature, measuring of cylinder head temperature and temperature of entering and exhaust gas, fuel systems.	Z,ZK ric power and pow ystem, total and im	4 er circuit on nmediate
21PRE1 Classification of ins	Operational Procedures System of quality, fuel quantity needed for given flight and given aircraft, MTOW, MNPS NAT. Flight Instruments 1 truments and their requirements, instrument panel layout depending on the type of aircraft, sensors and active parts, sources of electing of fuel pressure and oil temperature, measuring of cylinder head temperature and temperature of entering and exhaust gas, fuel sourcing of RPM and vibrations, construction control instruments, icing signalization, barometric instruments - altimeter, variometers, aerometers.	Z,ZK tric power and pow ystem, total and im tric instruments - s	4 er circuit on nmediate
21PRE1 Classification of ins board, measurir consumption, meas	Operational Procedures System of quality, fuel quantity needed for given flight and given aircraft, MTOW, MNPS NAT. Flight Instruments 1 truments and their requirements, instrument panel layout depending on the type of aircraft, sensors and active parts, sources of electing of fuel pressure and oil temperature, measuring of cylinder head temperature and temperature of entering and exhaust gas, fuel sturing of RPM and vibrations, construction control instruments, icing signalization, barometric instruments - altimeter, variometers, aerometer and mach meter, measuring of angle of impact and air temperature, methods of instrument use, instruments and pilot's attentions.	Z,ZK tric power and pow ystem, total and im etric instruments - s ion.	4 er circuit on mediate peedometer
21PRE1 Classification of ins board, measurir consumption, meas	Operational Procedures System of quality, fuel quantity needed for given flight and given aircraft, MTOW, MNPS NAT. Flight Instruments 1 truments and their requirements, instrument panel layout depending on the type of aircraft, sensors and active parts, sources of electing of fuel pressure and oil temperature, measuring of cylinder head temperature and temperature of entering and exhaust gas, fuel suring of RPM and vibrations, construction control instruments, icing signalization, barometric instruments - altimeter, variometers, aerometer and mach meter, measuring of angle of impact and air temperature, methods of instrument use, instruments and pilot's attent Radionavigation	Z,ZK tric power and pow ystem, total and im etric instruments - s ion. Z,ZK	4 er circuit on mediate peedometer
21PRE1 Classification of ins board, measurir consumption, meas	Operational Procedures System of quality, fuel quantity needed for given flight and given aircraft, MTOW, MNPS NAT. Flight Instruments 1 truments and their requirements, instrument panel layout depending on the type of aircraft, sensors and active parts, sources of electing of fuel pressure and oil temperature, measuring of cylinder head temperature and temperature of entering and exhaust gas, fuel souring of RPM and vibrations, construction control instruments, icing signalization, barometric instruments - altimeter, variometers, aerometer and mach meter, measuring of angle of impact and air temperature, methods of instrument use, instruments and pilot's attent Radionavigation instruments (RC/NDB, VOR, DME, ILS, MLS), space navigation, astronavigation and satellite navigation. &Itbr>&Itbr>\r\nThe le	Z,ZK tric power and pow ystem, total and im etric instruments - s ion. Z,ZK	4 er circuit on mediate peedometer
21PRE1 Classification of ins board, measurir consumption, meas 21R Navigational use of	Operational Procedures System of quality, fuel quantity needed for given flight and given aircraft, MTOW, MNPS NAT. Flight Instruments 1 truments and their requirements, instrument panel layout depending on the type of aircraft, sensors and active parts, sources of electing of fuel pressure and oil temperature, measuring of cylinder head temperature and temperature of entering and exhaust gas, fuel souring of RPM and vibrations, construction control instruments, icing signalization, barometric instruments - altimeter, variometers, aerometer and mach meter, measuring of angle of impact and air temperature, methods of instrument use, instruments and pilot's attent Radionavigation instruments (RC/NDB, VOR, DME, ILS, MLS), space navigation, astronavigation and satellite navigation. &Itbr>\r\nThe lepassed an exam at CAA following JAR - FCL 1.	Z,ZK tric power and pow ystem, total and im stric instruments - s ion. Z,ZK ctor of this subject	4 er circuit on amediate peedometer 5 has to have
21PRE1 Classification of ins board, measurir consumption, meas 21R Navigational use of	Operational Procedures System of quality, fuel quantity needed for given flight and given aircraft, MTOW, MNPS NAT. Flight Instruments 1 truments and their requirements, instrument panel layout depending on the type of aircraft, sensors and active parts, sources of electing of fuel pressure and oil temperature, measuring of cylinder head temperature and temperature of entering and exhaust gas, fuel struction of RPM and vibrations, construction control instruments, icing signalization, barometric instruments - altimeter, variometers, aerometer and mach meter, measuring of angle of impact and air temperature, methods of instrument use, instruments and pilot's attent Radionavigation instruments (RC/NDB, VOR, DME, ILS, MLS), space navigation, astronavigation and satellite navigation.&Itbr>\text{kIt};br>\text{kIt};br>\text{kIt},br>\t	Z,ZK ric power and pow ystem, total and im stric instruments - s ion. Z,ZK ctor of this subject	4 er circuit on amediate peedometer 5 has to have
21PRE1 Classification of ins board, measurir consumption, meas 21R Navigational use of	Operational Procedures System of quality, fuel quantity needed for given flight and given aircraft, MTOW, MNPS NAT. Flight Instruments 1 truments and their requirements, instrument panel layout depending on the type of aircraft, sensors and active parts, sources of electing of fuel pressure and oil temperature, measuring of cylinder head temperature and temperature of entering and exhaust gas, fuel so uring of RPM and vibrations, construction control instruments, icing signalization, barometric instruments - altimeter, variometers, aerometers and mach meter, measuring of angle of impact and air temperature, methods of instrument use, instruments and pilot's attent Radionavigation instruments (RC/NDB, VOR, DME, ILS, MLS), space navigation, astronavigation and satellite navigation.&Itbr>\text{kIt};br>\text{h'\nThe lempassed an exam at CAA following JAR - FCL 1.} Radio Communication in Practice ir traffic, Q - codes, message categories, transmitting letters, numbers and times in aviation, standard words and phrases, important processing the standard words and phrases, important processing transmitting letters, numbers and times in aviation, standard words and phrases, important processing transmitting letters, numbers and times in aviation, standard words and phrases, important processing transmitting letters.	Z,ZK tric power and pow ystem, total and im stric instruments - s ion. Z,ZK ctor of this subject Z thrases used in me	4 er circuit on amediate peedometer 5 has to have
21PRE1 Classification of ins board, measurir consumption, meas 21R Navigational use of 21RSL Shortcuts used in a	Operational Procedures System of quality, fuel quantity needed for given flight and given aircraft, MTOW, MNPS NAT. Flight Instruments 1 truments and their requirements, instrument panel layout depending on the type of aircraft, sensors and active parts, sources of electing of fuel pressure and oil temperature, measuring of cylinder head temperature and temperature of entering and exhaust gas, fuel souring of RPM and vibrations, construction control instruments, icing signalization, barometric instruments - altimeter, variometers, aerometers and mach meter, measuring of angle of impact and air temperature, methods of instrument use, instruments and pilot's attent Radionavigation instruments (RC/NDB, VOR, DME, ILS, MLS), space navigation, astronavigation and satellite navigation.&Itbr>\r\nThe lepassed an exam at CAA following JAR - FCL 1. Radio Communication in Practice ir traffic, Q - codes, message categories, transmitting letters, numbers and times in aviation, standard words and phrases, important preports, emergency procedures, procedures for VFR flights, procedures for IFR flights, procedures following requirements L10 and	Z,ZK tric power and pow ystem, total and im stric instruments - s ion. Z,ZK ctor of this subject Z hrases used in med	4 er circuit on immediate peedometer 5 has to have 2 eteorological
21PRE1 Classification of ins board, measurir consumption, meas 21R Navigational use of 21RSL Shortcuts used in a	Operational Procedures System of quality, fuel quantity needed for given flight and given aircraft, MTOW, MNPS NAT. Flight Instruments 1 truments and their requirements, instrument panel layout depending on the type of aircraft, sensors and active parts, sources of electing of fuel pressure and oil temperature, measuring of cylinder head temperature and temperature of entering and exhaust gas, fuel souring of RPM and vibrations, construction control instruments, icing signalization, barometric instruments - altimeter, variometers, aerometers and mach meter, measuring of angle of impact and air temperature, methods of instrument use, instruments and pilot's attent Radionavigation instruments (RC/NDB, VOR, DME, ILS, MLS), space navigation, astronavigation and satellite navigation.&Itbr>\r\nThe lepassed an exam at CAA following JAR - FCL 1. Radio Communication in Practice ir traffic, Q - codes, message categories, transmitting letters, numbers and times in aviation, standard words and phrases, important preports, emergency procedures, procedures for VFR flights, procedures for IFR flights, procedures following requirements L10 and Radio Communication	Z,ZK tric power and pow ystem, total and im stric instruments - s ion. Z,ZK ctor of this subject Z thrases used in me d L4444. Z,ZK	4 er circuit on amediate peedometer 5 has to have 2 eteorological
21PRE1 Classification of ins board, measurir consumption, meas 21R Navigational use of 21RSL Shortcuts used in a 21RTS Radiotelephony sp	Operational Procedures System of quality, fuel quantity needed for given flight and given aircraft, MTOW, MNPS NAT. Flight Instruments 1 truments and their requirements, instrument panel layout depending on the type of aircraft, sensors and active parts, sources of electing of fuel pressure and oil temperature, measuring of cylinder head temperature and temperature of entering and exhaust gas, fuel souring of RPM and vibrations, construction control instruments, icing signalization, barometric instruments - altimeter, variometers, aerometers and mach meter, measuring of angle of impact and air temperature, methods of instrument use, instruments and pilot's attent Radionavigation instruments (RC/NDB, VOR, DME, ILS, MLS), space navigation, astronavigation and satellite navigation.&Itbr>\lambda{t};br\lambda{gt;\lambda{t}}r\lambda{n}The lessal passed an exam at CAA following JAR - FCL 1. Radio Communication in Practice ir traffic, Q - codes, message categories, transmitting letters, numbers and times in aviation, standard words and phrases, important preports, emergency procedures, procedures for VFR flights, procedures for IFR flights, procedures following requirements L10 and Radio Communication Radio Communication secret, radio communication operation, radio communication	Z,ZK tric power and pow ystem, total and im stric instruments - s ion. Z,ZK ctor of this subject Z thrases used in me d L4444. Z,ZK n requirements, dis	4 er circuit on amediate peedometer 5 has to have 2 eteorological 4 stress radio
21PRE1 Classification of ins board, measurir consumption, meas 21R Navigational use of 21RSL Shortcuts used in a 21RTS Radiotelephony sp	Operational Procedures System of quality, fuel quantity needed for given flight and given aircraft, MTOW, MNPS NAT. Flight Instruments 1 truments and their requirements, instrument panel layout depending on the type of aircraft, sensors and active parts, sources of electing of fuel pressure and oil temperature, measuring of cylinder head temperature and temperature of entering and exhaust gas, fuel struments of RPM and vibrations, construction control instruments, icing signalization, barometric instruments - altimeter, variometers, aerometers and mach meter, measuring of angle of impact and air temperature, methods of instrument use, instruments and pilot's attent Radionavigation instruments (RC/NDB, VOR, DME, ILS, MLS), space navigation, astronavigation and satellite navigation.&Itbr>\r\nThe lepassed an exam at CAA following JAR - FCL 1. Radio Communication in Practice ir traffic, Q - codes, message categories, transmitting letters, numbers and times in aviation, standard words and phrases, important preports, emergency procedures, procedures for VFR flights, procedures for IFR flights, procedures following requirements L10 and Radio Communication Radio Communication selling alphabet, Czech radio telecommunication law, telecommunication secret, radio communication operation, radio communication nece. &Itbr>\r\nThe lectures are following the requirements for obtaining general radiotelephonist's certificate at Czech Telegration.	Z,ZK tric power and pow ystem, total and im stric instruments - s ion. Z,ZK ctor of this subject Z thrases used in me d L4444. Z,ZK n requirements, dis	4 er circuit on amediate peedometer 5 has to have 2 eteorological 4 stress radio
21PRE1 Classification of ins board, measurir consumption, meas 21R Navigational use of 21RSL Shortcuts used in a 21RTS Radiotelephony sp. corresponder	Operational Procedures System of quality, fuel quantity needed for given flight and given aircraft, MTOW, MNPS NAT. Flight Instruments 1 truments and their requirements, instrument panel layout depending on the type of aircraft, sensors and active parts, sources of electing of fuel pressure and oil temperature, measuring of cylinder head temperature and temperature of entering and exhaust gas, fuel suring of RPM and vibrations, construction control instruments, icing signalization, barometric instruments - altimeter, variometers, aerometers and mach meter, measuring of angle of impact and air temperature, methods of instrument use, instruments and pilot's attent Radionavigation instruments (RC/NDB, VOR, DME, ILS, MLS), space navigation, astronavigation and satellite navigation. &Itbr>\klt;br>\klr\nThe leepassed an exam at CAA following JAR - FCL 1. Radio Communication in Practice ir traffic, Q - codes, message categories, transmitting letters, numbers and times in aviation, standard words and phrases, important preports, emergency procedures, procedures for VFR flights, procedures for IFR flights, procedures following requirements L10 and Radio Communication Radio Communication pelling alphabet, Czech radio telecommunication law, telecommunication secret, radio communication operation, radio communication etc. &Itbr>\klt;br&	Z,ZK tric power and pow ystem, total and im stric instruments - s ion. Z,ZK ctor of this subject Z thrases used in me d L4444. Z,ZK n requirements, dis ecommunication C	4 er circuit on immediate peedometer 5 has to have 2 eteorological 4 stress radio office.
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