Study plan

Name of study plan: 2.blok TL B2 06/07 za 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: 120 Elective courses credits: 0 Sum of credits in the plan: 120

Note on the plan:

Name of the block: Compulsory courses Minimal number of credits of the block: 120

The role of the block: Z

Code of the group: 5S.TLB2-06/07 Name of the group: 5.s.TL B2 od 06/07

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:

technology will also be used.

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
20ELT2	Electrotechnics 2	Z,ZK	4	2+2		Z
15J1A5	Foreign Language - English 5	Z	2	0+2		Z
21L2	Aircraft 2	Z,ZK	4	3+1		Z
21LAN1	English in Aviation 1	Z	2	0+2		Z
21LRTC	Radio Technology in Aviation	Z,ZK	4	2+2		Z
21PU3	Maintenance Procedures 3	KZ	5	3+1		Z
14SSS	Networks and Network Operating Systems	KZ	2	1+1		Z
18SSP	Joints and Connecting Elements	Z,ZK	4	2+2	Z	Z
21ZL2	Principles of Flight 2	Z,ZK	3	2+1		Z

Characteristics of the courses of this group of Study Plan: Code=5S.TLB2-06/07 Name=5.s.TL B2 od 06/07							
20ELT2	Electrotechnics 2	Z,ZK	4				
Ohm's law, Kirchov's law, resistance and its measurement. Performance, work and energy (kinetic, potential); principle and function of capacitors. Computation of capacity and volta							
in parallel and serial circ	cuits. Theory of magnetism, magnetomotoric force, inductivity, induction coil, mutual inductivity. Theory of DC-generator, DC-	engine.					
15J1A5	Foreign Language - English 5	Z	2				
The students of the Faci	ulty of Transportation Sciences study two foreign languages one after another at the Department of Humanities. These cours	ses aim at providir	ng sufficient				
knowledge to communic	ate about every-day matters but also to read and write and discuss professional and specialised issues. Both gr	adually chosen la	nguage 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 er	nd of 4th semester	r; the PP				
(Professional Pilot) spec	cialisation students take two exams in English - at the end of 4th and 6th semester). Those students who want to apply for th	e Air Traffic specia	alizations 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 p	rovides courses				
in English, German, Fre	nch and Russian at different levels. The courses are also taught in our multimedia laboratory.						
21L2	Aircraft 2	Z,ZK	4				
Aircraft body, landing ge	ar, tail, directional stability and control, problems with projects, performance envelope, load factor, technologies used in airci	raft construction, r	naterials used				
in construction, fuel syst	em, oil system, electric circuit, ice control system, anti-fire system, control systems.						
21LAN1	English in Aviation 1	Z	2				
Students are expected to have perfectly passed the first block of English language. They will continue with the second block along with English in aviation. \v1\nEnglish							
in aviation A will introduce to the students basic terminology in the area of civil aviation. The lectures will be structured so one week the students go through the theory, special emphasis							
will be put on ability of s	will be put on ability of students to receive information only in English. The next week will students use the theoretical knowledge in conversation and practical exercises? Audiovisual						

21LRTC	Radio Technology in Aviation	Z,ZK	4
Electric signals and the	wave spectrum, modulations - amplitude, frequency and phase, impulse modulation, resonance circuits, electromagnetic fiel	d, wave range in a	viation, radiation
and reception of electron	omagnetic field, antennas in aviation, receivers and transmitters, basic navigation parameters and their measurements, princ	iples 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	g JAR - FCL 1.	
21PU3	Maintenance Procedures 3	KZ	5
14SSS	Networks and Network Operating Systems	KZ	2
Acquaintance with open	ating and possibilities of computer networks and their services utilize is the subject target. Network topology, IP addressing, WA	N networks, conne	ction information
(ping, trace route). Det	ailed familiarity with selected WIN NT, Novell, and Unix network environment in the second semester part. Introduction to ser	ver and workstatio	ns installation,
users and groups crea	ion, folder structure creation, disc mapping, users protection, folders security, network printing, network security.		
18SSP	Joints and Connecting Elements	Z,ZK	4
Screws and bolted ass	emblies, riveted joints, welding and brazing joints, adhesive bonding. Piping systems and components, pipe fittings, piping dia	agrams. Axles and	shafts, axial
locking devices. Tolera	nces and fits. Tolerancing of threads. Rolling bearings, mounting and arrangement of bearings, plain bearing units.		
21ZL2	Principles of Flight 2	Z,ZK	3
Creation of lift, propelle	r, propulsion, thrust, efficiency of engine, aerodynamics of fixed and variable pitch propeller, propeller regimes, effect of prop	eller airflow, gyros	copic effect,
balance of forces durin	g horizontal flight, glide descent and landing, performance, take off, climb, acceleration, positive load, maneuvers and turns, s	tability and control	lability, transonic
speeds.			

Code of the group: 6S.TLB2-06/07 Name of the group: 6.s.TL B2 od 06/07

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: Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their Completion Credits Code Scope Semester Role members) Tutors, authors and guarantors (gar.) 21AVI1 Z.ZK 3+1 **Avionics 1** Ζ 21EPS2 Z,ZK 4 **Elektronic Instrumentation 2** 2+2 Ζ 20ELN Z.ZK 2+2 **Electronics** 5 20ELT3 Z,ZK 5 2+2 **Electrotechnics 3** Ζ 14IPK1 ΚZ 0+2 **Tutorial in Informatics 1** Z 7 15J1A6 2 0+27 Foreign Language - English 6 21PU4 K7 2+0 3 L **Maintenance Procedures 4** Ζ 21PRX5 ΚZ 0+4L **Training 5 - Specialisation Aviation Engineer** Z

Characteristics of the courses of this group of Study Plan: Code=6S.TLB2-06/07 Name=6.s.TL B2 od 06/07

21AVI1	Avionics 1	Z,ZK	5
21EPS2	Elektronic Instrumentation 2	Z,ZK	4
20ELN	Electronics	Z,ZK	5
Properties of sem	iconductors, diodes, tranzistors, linear integrated circuits, operating amplifiers, technology of printed circuits.		•
20ELT3	Electrotechnics 3	Z,ZK	5
Production of alte	rnating current. Alternating circuits with resistance, inductivity and capacity Transformers, filters, alternating current generators an	d engines.	
14IPK1	Tutorial in Informatics 1	KZ	2
15J1A6	Foreign Language - English 6	Z	2
The students of the	ne Faculty of Transportation Sciences study two foreign languages one after another at the Department of Humanities. These cour	ses aim at providir	ng sufficient
noulodge to com	amunicate about every day matters but also to read and write and discuss professional and apocialized issues altibratic. Both a	radually abasan la	naunaa aauraa

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.

21PU4	Maintenance Procedures 4	KZ	3		
Systems of maintenance and repairs within the aeronautical technology and their application for ensuring high reliability and the required airworthing			is in accordance		
with the required knowl	with the required knowledge of JAR 66(module 7,part7.4 and 7.16 to 7.19).				
21PRX5	Training 5 - Specialisation Aviation Engineer	KZ	4		

Code of the group: 7S.TLB2-07/07 Name of the group: 7.s.TL B2 od 07/08

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
21AVI2	Avionics 2	Z,ZK	5	3+1		Z
21EPS3	Electronical Instruments Systems 3	Z,ZK	4	2+2		Z
21FMS	Flight Management System	Z,ZK	5	4+1		Z
14IP1	Tutorial in Informatics 1	Z	2	0+2		Z
21PSU	Perspective Systems of Maintenance	Z,ZK	4	2+2		Z
21PU5	Maintenance Procedures 5	KZ	3	2+0	Z	Z
21PRX6	Training 6 - Specialisation Aviation Engineer	KZ	4	0+4	L	Z
21X17T	Project 7	KZ	3	0+2		Z

Characteristics of the courses of this group of Study Plan: Code=7S.TLB2-07/07 Name=7.s.TL B2 od 07/08

ZTAVIZ	AVIONICS 2	Z,ZN	ဂ		
21EPS3	Electronical Instruments Systems 3	Z,ZK	4		
21FMS	Flight Management System	Z,ZK	5		
14IP1	Tutorial in Informatics 1	Z	2		
The course involves int	roductory theoretical part (basic terminology from information technologies, information theory, computer terminology, data d	amage protection	, theft and		
destruction, protection	destruction, protection of computer network, security and legal problems relevant to information technologies, copyright and data protection law, computer criminality) and practical part				
according to the specialization.					
21PSU	Perspective Systems of Maintenance	Z,ZK	4		

21PU5 Maintenance Procedures 5
Systems of maintenance and repairs within the aeronautical technology and their application for ensuring high reliability and the required airworthiness. Subject content is in accordance with the required knowledge of JAR 66 (module 7, part 7.20).

21PRX6	Training 6 - Specialisation Aviation Engineer	KZ	4
21X17T	Project 7	KZ	3

Code of the group: 8S-TL-07/08 Name of the group: 8.s.TL od 07/08

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
21BPTL	Bachelor Thesis	Z	20	0+4		Z
21PRX7	Training 7 - Specialisation Aviation Engineer	Z	10	0+24	L	Z

Characteristics of the courses of this group of Study Plan: Code=8S-TL-07/08 Name=8.s.TL od 07/08

21BPTL	Bachelor Thesis	Z	20	
21PRX7	Training 7 - Specialisation Aviation Engineer	Z	10	
Practical training within the outline stated in Reference manual on training of maintenance personnel.				

List of courses of this pass:

Code	Name of the course	Completion	Credits		
14IP1	Tutorial in Informatics 1	Z	2		
The course invol	The course involves introductory theoretical part (basic terminology from information technologies, information theory, computer terminology, data damage protection, theft and				
destruction, protecti	on of computer network, security and legal problems relevant to information technologies, copyright and data protection law, compute	r criminality) and p	ractical part		
	according to the specialization.				
14IPK1	Tutorial in Informatics 1	KZ	2		
14SSS	Networks and Network Operating Systems	KZ	2		
Acquaintance with o	cquaintance with operating and possibilities of computer networks and their services utilize is the subject target. Network topology, IP addressing, WAN networks, connection information				

(ping, trace route). Detailed familiarity with selected WIN NT, Novell, and Unix network environment in the second semester part. Introduction to server and workstations installation, users and groups creation, folder structure creation, disc mapping, users protection, folders security, network printing, network security.

15J1A5	Foreign Language - English 5	Z	2
The students of t	the Faculty of Transportation Sciences study two foreign languages one after another at the Department of Humanities. These course	s aim at providing	sufficient
-	nunicate about every-day matters but also to read and write and discuss professional and specialised issues. Both graduate		-
	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		
	tt) 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	nrol "English language" as their first choice. This is, however, not a guarantee for being excepted in the project study. Our in English, German, French and Russian at different levels. The courses are also taught in our multimedia laboratory.	department provid	des courses
15J1A6	Foreign Language - English 6	Z	2
The students of t	the Faculty of Transportation Sciences study two foreign languages one after another at the Department of Humanities. These course	s aim at providing	sufficient
-	nunicate about every-day matters but also to read and write and discuss professional and specialised issues. Both graduate		-
	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		
	tt) 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	nrol "English language" as their first choice. This is, however, not a guarantee for being excepted in the project study. Our in English, German, French and Russian at different levels. The courses are also taught in our multimedia laboratory.	department provid	ies courses
18SSP		7 71/	1
	Joints and Connecting Elements d assemblies, riveted joints, welding and brazing joints, adhesive bonding. Piping systems and components, pipe fittings, piping diagr	Z,ZK	4
Screws and boile	locking devices. Tolerances and fits. Tolerancing of threads. Rolling bearings, mounting and arrangement of bearings, plain bearing		iaits, axiai
20ELN	Electronics		5
ZUELIN	Properties of semiconductors, diodes, tranzistors, linear integrated circuits, operating amplifiers, technology of printed circuit	Z,ZK	5
205172			
20ELT2	Electrotechnics 2 's law, resistance and its measurement. Performance, work and energy (kinetic, potential); principle and function of capacitors. Compu	Z,ZK	4
	allel and serial circuits. Theory of magnetism, magnetomotoric force, inductivity, induction coil, mutual inductivity. Theory of DC-gener		and voltage
	Electrotechnics 3	Z,ZK	
20ELT3	tion of alternating current. Alternating circuits with resistance, inductivity and capacity. Transformers, filters, alternating current genera		5
21AVI1	Avionics 1	Z,ZK	
			5
21AVI2	Avionics 2	Z,ZK	5
21BPTL	Bachelor Thesis	Z	20
21EPS2	Elektronic Instrumentation 2	Z,ZK	4
21EPS3	Electronical Instruments Systems 3	Z,ZK	4
21FMS	Flight Management System	Z,ZK	5
21L2	Aircraft 2	Z,ZK	4
Aircraft body, land	ing gear, tail, directional stability and control, problems with projects, performance envelope, load factor, technologies used in aircraft	construction, mate	erials used
	in construction, fuel system, oil system, electric circuit, ice control system, anti-fire system, control systems.		
21LAN1	English in Aviation 1	Z	2
Students are expec	ted to have perfectly passed the first block of English language. They will continue with the second block along with English in aviation.	
< td=""><td>t;\r\nEnglish</td></br><>	t;\r\nEnglish
	roduce to the students basic terminology in the area of civil aviation. The lectures will be structured so one week the students go through	• • •	
will be put on ability	y of students to receive information only in English. The next week will students use the theoretical knowledge in conversation and pro-	actical exercises? A	Audiovisual
	technology will also be used.		
21LRTC	Radio Technology in Aviation	Z,ZK	4
=	I the wave spectrum, modulations - amplitude, frequency and phase, impulse modulation, resonance circuits, electromagnetic field, was provided to the provided provid		
	electromagnetic field, antennas in aviation, receivers and transmitters, basic navigation parameters and their measurements, principle ters, distance, altitude, speed, drift angle, hyperbolic navigation system, Earth's satellites, GPS, ground radio navigation systems, ND		
	, radiolocation in aviation, monitors in aviation \r\nThe lector of this subject has to have passed an exam at CAA foll		
21PRX5	Training 5 - Specialisation Aviation Engineer	KZ	4
21PRX6		KZ	4
	Training 6 - Specialisation Aviation Engineer		
21PRX7	Training 7 - Specialisation Aviation Engineer	Z	10
045011	Practical training within the outline stated in Reference manual on training of maintenance personnel.	7.71	4
21PSU	Perspective Systems of Maintenance	Z,ZK	4
21PU3	Maintenance Procedures 3	KZ	5
21PU4	Maintenance Procedures 4	KZ	3
Systems of mainter	nance and repairs within the aeronautical technology and their application for ensuring high reliability and the required airworthiness. Su	bject content is in a	accordance
24 DUIC	with the required knowledge of JAR 66(module 7,part7.4 and 7.16 to 7.19).		
21PU5	Maintenance Procedures 5	KZ	3
systems of mainter	nance and repairs within the aeronautical technology and their application for ensuring high reliability and the required airworthiness. Su with the required knowledge of JAR 66 (module 7, part 7.20).	Dject content is in a	accordance
21X17T	Project 7	KZ	3
21ZL2	Principles of Flight 2	Z,ZK	3
	opeller, propulsion, thrust, efficiency of engine, aerodynamics of fixed and variable pitch propeller, propeller regimes, effect of propell	′ '	-
	uring horizontal flight, glide descent and landing, performance, take off, climb, acceleration, positive load, maneuvers and turns, stabili		

For updated information see http://bilakniha.cvut.cz/en/FF.html Generated: day 2022-12-03, time 02:52.