Study plan

Name of study plan: KOMBI bak. studium od 21-22 (obor LED), skok do 3.r.

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 combined 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: 162 The role of the block: Z

Code of the group: 1S K LED 21-22 P Name of the group: 1. sem. bak. KOMBI obor LED 21-22 povinné p edm ty 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
611CAL1	Calculus 1 Romana Zibnerová Ond ej Navrátil (Gar.)	Z,ZK	7	2P+4C+22E	8 Z	Z
611LA	Linear Algebra Romana Zibnerová Romana Zibnerová Martina Be vá ová (Gar.)	Z,ZK	3	2P+1C+10E	8 Z	Z
612ZYDK	Introduction to Transportation Engineering Dagmar Ko árková Dagmar Ko árková (Gar.)	Z,ZK	3	6B	Z	Z
618MTY	Materials Science and Engineering Vít Malinovský Jaroslav Valach (Gar.)	Z,ZK	3	2P+1C+10E	8 Z	Z
611GIE	Geometry Vít Malinovský Šárka Vorá ová (Gar.)	KZ	3	2P+2C+12E	8 Z	Z
614ASD	Algorithm and Data Structures Jan Mejst ík	KZ	3	0P+2C+8E	8 Z	Z
614KSP	Constructing with Computer Aid	KZ	2	0P+2C+8E	8 Z	Z
618TED	Technical Documentation Vít Malinovský Jitka ezní ková (Gar.)	KZ	2	1P+1C+8E	8 Z	Z
615DPLG	Transportation Psychology Jana Štikarová	Z	2	2P+0C+6E	8 Z	Z
616UDOP	Introduction into Vehicles Zuzana Radová Petr Bouchner (Gar.)	Z	2	2P+0C+8E	8 Z	Z

Characteristics of the courses of this group of Study Plan: Code=1S K LED 21-22 P Name=1. sem. bak. KOMBI obor LED 21-22 povinné n edm. tv

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611CAL1	Calculus 1	Z,ZK	7				
Sequence of real numbers and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative. Geometric properties of n-dimensional Euklidean space and							
Cartesian coordinate sy	Cartesian coordinate system. Geometric meaning of the differential of functions several real variables, differential calculus of functions of several real variables.						
611LA	Linear Algebra	Z,ZK	3				
Vector spaces (linear co	mbinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and	their solvability. D	eterminants and				
their applications. Scala	r product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classification.						
612ZYDK	Introduction to Transportation Engineering	Z,ZK	3				
Role of transportation in	land-use planning. Basic terms in transportation engineering. Traffic survey and traffic prognosis. Introduction to topic of road	s, public mass tra	nsport. Negative				
impacts of transportatio	n to environment and safety.						
618MTY	Materials Science and Engineering	Z,ZK	3				
Basic course of materials science and engineering explains mechanical properties of structural materials based on their bonding forces and microstructure. However the main attention							
is paid to metals as the most important engineering materials, also other major classes of materials are presented, namely ceramics, polymers and composites. Attention is also paid							
to degradation processe	es in materials, to defectoscopy and to main mechanical tests.						

			1
611GIE	Geometry	KZ	3
Orthographic and oblique	e projections, linear perspective. Topographic surfaces and their orthogonal projection. Differential geometry of curves - para	ameterization, arc	of the curve,
torsion and curvature, F	renet's trihedron. Kinematics - a curve as a trajectory of the motion, the velocity and acceleration of a particle moving on a c	urved path.	
614ASD	Algorithm and Data Structures	KZ	3
Students will be familiar	ized with selected basic and derived data structures, algorithms, their properties and their design procedure. Students will and	lyze problems, pro	pose theoretical
solutions to the set task	and the resulting algorithm write by means of flowcharts, practice in reading algorithms recorded by means of the flowchart	and use the basi	cs of Boolean
algebra with forming the	e conditions for the algorithms.		
614KSP	Constructing with Computer Aid	KZ	2
"CAD systems" term de	termination. CAD role in projecting system model. Existing CAD systems on Czech market. Project creation, basic common	, work rules in grap	hic applications
and CA systems. Co-or	dinated systems, CAD environment skill (basics of constructing, dimensioning, modifications, user interfaces, projecting poss	ibilites, AutoCAD	environment
profiles, drawings with r	aster foundaments).		
618TED	Technical Documentation	KZ	2
Technical standards, int	ernational standardization, technical drawings, representation of technical objects, technical diagrams and charts, dimension	al and geometric	al accuracy,
arrangement of drawing	sheets.		
615DPLG	Transportation Psychology	Z	2
Subject of psychology a	nd its basic concepts. Information intake, decision-making and behaviour. Performance. Engineering psychology and vehicle c	, onstruction. Psych	nological aspects
of travel route and traffi	c conditions, accidents and traffic incidents. Selection and training of the staff. Work and leisure. Age as a factor in transport c	operation.	
616UDOP	Introduction into Vehicles	Z	2
Vehicles and transporta	tion systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and w	ater transport. Alt	ernative means
of transport. Lifting equi	pment and conveyors. Legislation.		
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Code of the group: 2S K LED 21-22 P Name of the group: 2. sem. bak. KOMBI obor LED 21-22 povinné p edm ty 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 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
611CAL2	Calculus 2 Romana Zibnerová Romana Zibnerová Ond ej Navrátil (Gar.)	Z,ZK	5	2P+3C+20E	B L	Z
611STAT	Statistics Pavel Provinský, Pavla Pecherková Pavla Pecherková Pavel Provinský (Gar.)	Z,ZK	4	2P+2C+12E	B L	Z
612ZTS	Railway Lines and Stations Tomáš Javo ík, Ond ej Trešl	Z,ZK	4	2P+2C+10E	B L	Z
618SAT	Structural Analysis Tomáš Doktor Daniel Kytý (Gar.)	Z,ZK	4	2P+2C+14E	B L	Z
620SYSA	Systems Analysis Petr Bureš, Ji í R ži ka Zuzana B linová (Gar.)	Z,ZK	5	2P+2C+14E	B L	Z
614PRG	Programming Libor Žídek	KZ	2	0P+2C+8E	B L	Z
617TEDK	Transport Technology and Logistics Michal Drábek Vít Janoš (Gar.)	KZ	4	12B	L	Z
621ZALD	Basics of Air Transport Jakub Hospodka	KZ	2	0P+2C+8E	B L	Z

Characteristics of the courses of this group of Study Plan: Code=2S K LED 21-22 P Name=2. sem. bak. KOMBI obor LED 21-22 povinné p edm ty

611CAL2	Calculus 2	Z,ZK	5					
Antiderivative, Newtonian integral, Riemannian integral of the function of one variable, improper Riemannian integral, Riemannian integral in Rn. Parametric description of regular								
k-dimensional surfaces in Rn, Riemannian integral over regular surfaces. Line and surface integrals of the second type, Stokes theorems, ordinary differential equations of the first								
order, linear differential	order, linear differential equations with constant coefficients and its systems.							
611STAT	Statistics	Z,ZK	4					
Definition of probability,	random variable and its description, known distributions, random vector, function of random variable. Methods of point estimatic	on. Testing of statis	stical hypothesis.					
Regression and correlat	tion, linear regression, correlation coefficient, coefficient of determination, the general linear model, statistical inference in linea	r regression, ana	ysis of variance,					
multiple regression, the	use of matrices in regression.							
612ZTS	Railway Lines and Stations	Z,ZK	4					
Rail transport. Railway f	track geometry parameters. Route layout of railway lines. Railway line construction - railway substructure and superstructure.	Spatial layout of r	ailway lines.					
Railway control systems	s in relation to infrastructure. Operating and carriage points. Railway lines net and category. Traction in rail transport.							
618SAT	Structural Analysis	Z,ZK	4					
General system of force	s in plane and space. Calculation of reactions of bodies and structures. Assessment of internal forces on statically determina	ate beams and sin	nple girders.					
Principle of virtual work.	Kinematic method for calculation of reactions of statically determinate systems. Determination of axial forces in truss construction	ns. Cross-section	al characteristics					
of planar shapes. Fiber	polygons and chains.							
620SYSA	Systems Analysis	Z,ZK	5					
Introduction to system sciences, system viewpoint, terminology, typical system analysis tasks, system identification, system interface and interface tasks, processes, system behaviour								
and its analysis, strong functions and processes, genetic code, system identity, system architecture. Tools for system analysis - Petri nets, decision tables, algorithms for structural								
tasks. Soft and hard systems, methods for soft system analysis.								

614PRG	Programming	KZ	2				
Algorithm development, methods of structured programming, high-level programming languages, basics of C programming languages (types, variables, conditions, cycles, arrays,							
functions), programming techniques, complexity.							
617TEDK	Transport Technology and Logistics	KZ	4				
Basic terms in transport	technology and logistics, particular steps of transport planning, line planning, timetabling, planning in pasanger and freight t	ransport, organis	ation of traffic in				
each transport modus,	each transport modus, technologic factors of the side of operator and client, organisation of city transport, logistic technologies and their aplication using various transport modus.						
621ZALD	Basics of Air Transport	KZ	2				
History, definitions, terminology, basic rules. VFR/IFR. Basics of aerodynamics. Propulsion of aircraft. Aircraft design. Basics of navigation, radio navigation. Weight, balance, performance.							
Flight planning, optimization of speed and heights, minimum fuel. Limitations of operation, maintenance, service life of aircraft. Traffic management, ground handling, security. Air crew.							

Airlines and economics. Space technologies.

Code of the group: 3S K LED 21-22 P Name of the group: 3. sem. bak. KOMBI obor LED 21-22 povinné p edm ty 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 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
611FYZ	Physics Goce Chadzitaskos Zuzana Malá (Gar.)	Z,ZK	5	2P+2C+18B	Z	Z
612MDE	Transport Models and Transport Excesses Josef Kocourek, Tomáš Pad lek Josef Kocourek (Gar.)	Z,ZK	3	2P+1C+8B	Z	Z
617TGA	Graph Theory and its Applications in Transport Alexandra Dvo á ková Denisa Mocková (Gar.)	Z,ZK	4	2P+2C+12B	Z	Z
618PZP	Elasticity and Strength Tomáš Doktor Ond ej Jiroušek (Gar.)	Z,ZK	3	2P+1C+10B	Z	Z
620UITS	Introduction to Intelligent Transport Systems Vladimír Faltus Pavel Hrubeš (Gar.)	Z,ZK	7	3P+2C+20B	Z	Z
612PPOK	Designing Roads, Highways and Motorways Tomáš Pad lek, Petr Kumpošt	KZ	3	1P+2C+10B	Z	Z
614DATS	Database Systems Ond ej Smíšek Jana Kaliková (Gar.)	KZ	2	1P+1C+10B	Z	Z
615JZ1A	Foreign Language - English 1 V ra Pastorková	Z	3	0P+4C+10B	Z	Z

Characteristics of the courses of this group of Study Plan: Code=3S K LED 21-22 P Name=3. sem. bak. KOMBI obor LED 21-22 povinné p edm ty

611FYZ Physics	Z,ZK	5					
Kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodynamics.							
612MDE Transport Models and Transport Excesses	Z,ZK	3					
Parameters of the traffic flow and methods for their measurement. Models of the traffic flow, communications load, line and urban systems. Theory of queues, shock waves. Quality of							
transport and its assessment. Statistical characteristics of transport. Transport excesses, their analysis, the causes, identify and minimize the consequences. Improving of transport							
safety and fluency.							
617TGA Graph Theory and its Applications in Transport	Z,ZK	4					
Basic terms of graph theory, paths in graphs, flows in networks, location problems, design problems on graphs, optimum routing, use of graphs in oth	ner scientific disci	plines.					
618PZP Elasticity and Strength	Z,ZK	3					
Tension and compression. Bending of beam. Shear stress during bending of beam. Design and analysis of cross section of beam. Design of riveted, bo	lted and welded	oint of structure.					
Analysis of deflection curve of beam. Torsion of circle cross section. Combined loading. Stability of compressed bar and buckling. Beam on elastic for	undation. Strengt	h analysis.					
620UITS Introduction to Intelligent Transport Systems	Z,ZK	7					
Terminology and legislative framework telematics systems and their architecture. Telematics systems in practice and their operation. Fundamentals of ir	formation and tel	ecommunication					
systems for ITS. Principles and technical support measurement of traffic data, localization and navigation. Practical work with traffic data. Real examples and technical support measurement of traffic data, localization and navigation.	les of possible ap	oplications of the					
principles of ITS.							
612PPOK Designing Roads, Highways and Motorways	KZ	3					
Definition, types, ownership, maintenance, management and categorization of roads and highways. Curve and transition curve. Sinuosity and standa	rd speed. Route	in rural areas.					
Range of vision for stopping and overtaking. Road body - shapes and proportions, bottom and superstructure. Drainage and components of roads. Sa	afety device. Cros	sings, junctions,					
intersections.							
614DATS Database Systems	KZ	2					
Basic concepts of database systems, conceptual model, relational data model, the principles of normal forms, relational database design, security and	nd integrity of dat	a, database					
queries, relational algebra, SQL language, client / server, multilayer architectures, distributed database systems. Access to data via the WWW.							
615JZ1A Foreign Language - English 1	Z	3					
Grammatical structures and style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and	communicative s	kills. Elementary					
stylistics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles of rhetoric.							

Code of the group: 4S K LED 21-22 P

Name of the group: 4. sem. bak. KOMBI obor LED 21-22 povinné p edm ty Requirement credits in the group: In this group you have to gain 26 credits

Requirement courses in the group: In this group you have to complete 8 courses Credits in the group: 26 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
611MSP	Modeling of Systems and Processes Jana Kuklová, Bohumil Ková Bohumil Ková (Gar.)	Z,ZK	4	2P+2C+12B	L	Z
621LTN	Air Navigation	Z,ZK	2	2P+1C+12B	6 L	Z
621LTTE	Aerodromes	Z,ZK	4	2P+1C+12B	6 L	Z
621ZYL1	Principles of Flight 1	Z,ZK	5	2P+2C+16B	L L	Z
621LL1	Aircraft 1	KZ	3	2P+1C+10B	6 L	Z
621MRG	Meteorology	KZ	3	1P+1C+10B	L	Z
621ULCT	Aircraft Maintenance	Z	2	2P+0C+8B	L L	Z
615JZ2A	Foreign Language - English 2 V ra Pastorková, Jan Feit	Z,ZK	3	0P+4C+10B	L	Z

Characteristics of the courses of this group of Study Plan: Code=4S K LED 21-22 P Name=4. sem. bak. KOMBI obor LED 21-22 povinné p edm ty

611MSP	Modeling of Systems and Processes	Z,ZK	4
System and subsystem,	external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of diff	erential and differ	ential equations.
Linear and nonlinear sy	stem, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer functior	n. Stability of LTI	systems.
Discretization of continu	ious systems. System interconnection.		
621LTN	Air Navigation	Z,ZK	2
Earth - its shape, paran	eters and properties. Aeronautical charts and their use. Measuring time. Dead reckoning. Radionavigation aids. Global navig	ation satellite sys	tems. Air traffic
services routes and the	ir design.		
621LTTE	Aerodromes	Z,ZK	4
Aerodrome reference p	bint and temperature, TORA, TODA, ASDA, LDA. Taxiway and apron. Clearway. Stopway. Obstacle limitation surfaces. Runwa	y marking. Runwa	ay zone lights.
Environmental conditior	ns. Public traffic.		
621ZYL1	Principles of Flight 1	Z,ZK	5
Aerodynamic drag, rela	tion between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and	pressures aroun	d wing, angle of
attack, reactions of wing	g in air flow, lift and drag of a wing and an aircraft, coefficient of lift and drag, critical angle of attack, wing with final span, induc	ed drag, interfere	ence, devices for
lift and drag increase.			
lift and drag increase. 621LL1	Aircraft 1	KZ	3
621LL1	Aircraft 1 proceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and		-
621LL1 Aircraft structural and co			-
621LL1 Aircraft structural and co	onceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and		-
621LL1 Aircraft structural and co Systems of primary and 621MRG	onceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topics.	d categorisation.	Aircraft loadings.
621LL1 Aircraft structural and co Systems of primary and 621MRG Structure of atmosphere	onceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topics. Meteorology	kZ N. Turbulence. Por	Aircraft loadings.
621LL1 Aircraft structural and co Systems of primary and 621MRG Structure of atmosphere wind. Cyclone and antic	Deceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topics. Meteorology e. Vertical stratification. Pressures QNH, QFE, QFF, QME. Instability. Atmospherical fronts. Atmospherical rainfall, origin fission	kZ N. Turbulence. Por	Aircraft loadings.
621LL1 Aircraft structural and co Systems of primary and 621MRG Structure of atmosphere wind. Cyclone and antic	Deceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topics. Meteorology e. Vertical stratification. Pressures QNH, QFE, QFF, QME. Instability. Atmospherical fronts. Atmospherical rainfall, origin fission yclone. Gradient wind. Geostrofical and geocyklostrofical wind. Visibilities in air transport. Dangerous meteorological aspects.	kZ N. Turbulence. Por	Aircraft loadings.
621LL1 Aircraft structural and co Systems of primary and 621MRG Structure of atmosphere wind. Cyclone and antic Circulation. Intertropical 621ULCT	Deceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topics. Meteorology e. Vertical stratification. Pressures QNH, QFE, QFF, QME. Instability. Atmospherical fronts. Atmospherical rainfall, origin fission yclone. Gradient wind. Geostrofical and geocyklostrofical wind. Visibilities in air transport. Dangerous meteorological aspects. front. Meteorological informations.	d categorisation. / KZ n. Turbulence. Por Aeteorological ma	Aircraft loadings. 3 wers causing aps. Climatology. 2
621LL1 Aircraft structural and co Systems of primary and 621MRG Structure of atmosphere wind. Cyclone and antic Circulation. Intertropical 621ULCT Aircraft operations and to	Denceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topics. Meteorology e. Vertical stratification. Pressures QNH, QFE, QFF, QME. Instability. Atmospherical fronts. Atmospherical rainfall, origin fission yclone. Gradient wind. Geostrofical and geocyklostrofical wind. Visibilities in air transport. Dangerous meteorological aspects. Aircraft Maintenance	d categorisation. / KZ n. Turbulence. Por Meteorological ma Z qualification of avi	Aircraft loadings. 3 wers causing aps. Climatology. 2 ation personnel.
621LL1 Aircraft structural and co Systems of primary and 621MRG Structure of atmosphere wind. Cyclone and antic Circulation. Intertropical 621ULCT Aircraft operations and to Basic documentation fo	Denceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topics. Meteorology . Vertical stratification. Pressures QNH, QFE, QFF, QME. Instability. Atmospherical fronts. Atmospherical rainfall, origin fission yclone. Gradient wind. Geostrofical and geocyklostrofical wind. Visibilities in air transport. Dangerous meteorological aspects. Aircraft Maintenance echnical operations. Maintenance and work processes. Defects search methods, status check diagnostic tools. Selection and operations.	d categorisation. / KZ n. Turbulence. Por Meteorological ma Z qualification of avi	Aircraft loadings. 3 wers causing aps. Climatology. 2 ation personnel.
621LL1 Aircraft structural and co Systems of primary and 621MRG Structure of atmosphere wind. Cyclone and antic Circulation. Intertropical 621ULCT Aircraft operations and to Basic documentation fo	Denceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topics. Meteorology . Vertical stratification. Pressures QNH, QFE, QFF, QME. Instability. Atmospherical fronts. Atmospherical rainfall, origin fission yclone. Gradient wind. Geostrofical and geocyklostrofical wind. Visibilities in air transport. Dangerous meteorological aspects. Aircraft Maintenance echnical operations. Maintenance and work processes. Defects search methods, status check diagnostic tools. Selection and r maintenance. Optimization of time maintenance intervals. Regulation no. 1321/2014 Part 145. Human factors of aircraft main	d categorisation. / KZ n. Turbulence. Por Meteorological ma Z qualification of avi	Aircraft loadings. 3 wers causing aps. Climatology. 2 ation personnel.
621LL1 Aircraft structural and co Systems of primary and 621MRG Structure of atmosphere wind. Cyclone and antic Circulation. Intertropical 621ULCT Aircraft operations and to Basic documentation fo EASA for aircraft mainter 615JZ2A	Denceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topics. Meteorology e. Vertical stratification. Pressures QNH, QFE, QFF, QME. Instability. Atmospherical fronts. Atmospherical rainfall, origin fission yclone. Gradient wind. Geostrofical and geocyklostrofical wind. Visibilities in air transport. Dangerous meteorological aspects. Aircraft Maintenance echnical operations. Maintenance and work processes. Defects search methods, status check diagnostic tools. Selection and or r maintenance. Optimization of time maintenance intervals. Regulation no. 1321/2014 Part 145. Human factors of aircraft maintenance.	d categorisation. / KZ n. Turbulence. Por Aleteorological ma gualification of avi ntenance. Regula Z,ZK	Aircraft loadings. 3 wers causing aps. Climatology. 2 ation personnel. tion of director 3
621LL1 Aircraft structural and co Systems of primary and 621MRG Structure of atmosphere wind. Cyclone and antic Circulation. Intertropical 621ULCT Aircraft operations and to Basic documentation fo EASA for aircraft mainte 615JZ2A Grammatical structures	Denceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and a secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topics. Meteorology e. Vertical stratification. Pressures QNH, QFE, QFF, QME. Instability. Atmospherical fronts. Atmospherical rainfall, origin fission yclone. Gradient wind. Geostrofical and geocyklostrofical wind. Visibilities in air transport. Dangerous meteorological aspects. N front. Meteorological informations. Aircraft Maintenance echnical operations. Maintenance and work processes. Defects search methods, status check diagnostic tools. Selection and or r maintenance. Optimization of time maintenance intervals. Regulation no. 1321/2014 Part 145. Human factors of aircraft maintenance. Seminars will be focused on practical application. Foreign Language - English 2	d categorisation. / KZ n. Turbulence. Por Aleteorological ma gualification of avi ntenance. Regula Z,ZK	Aircraft loadings. 3 wers causing aps. Climatology. 2 ation personnel. tion of director 3

Code of the group: 5S K LED 21-22 P

Name of the group: 5. sem. bak. KOMBI obor LED 21-22 povinné p edm ty Requirement credits in the group: In this group you have to gain 23 credits Requirement courses in the group: In this group you have to complete 7 courses Credits in the group: 23

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
621LCM	Aircraft Engines Jakub Hospodka	Z,ZK	3	2P+1C+12B	Z	Z
621LGP	Legislation and Operational Regulations Jakub Hospodka, Radoslav Zozu ák	Z,ZK	5	2P+2C+14B	Z	Z
621LTA2	Aircraft 2 Jakub Hospodka, Karel Hylmar, Daniel Urban	Z,ZK	2	2P+1C+12B	Z	Z
621ZT	ATM Systems Jakub Hospodka, Jakub Steiner	ZK	2	2P+0C+8B	Z	Z

621ZYL2	Principles of Flight 2 Jakub Hospodka, Vladimír Machula	Z,ZK	5	2P+2C+16B	Z	Z
621LAG1	English for Aviation 1 Jakub Hospodka, Barbora Horá ková, Jitka He manová	KZ	3	0P+2C+10B	Z	Z
621PDLE	Airport Design and Operation Jakub Hospodka, Petr Lika	KZ	3	1P+1C+8B	Z	Z

Characteristics of the courses of this group of Study Plan: Code=5S K LED 21-22 P Name=5. sem. bak. KOMBI obor LED 21-22 povinné

p eun ty			
621LCM	Aircraft Engines	Z,ZK	3
Aircraft piston engine, th	neoretical background, operational characteristics and construction schemes. Propellers, operational characterictics. Turbine	engine, theoretica	al background,
thermal cycles, construe	ction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational c	haracteristics. En	gine control.
621LGP	Legislation and Operational Regulations	Z,ZK	5
Introduction into aviation	n regulations. The scope of international and national organizations in civil aviation. Analysis and interpretation of the ICAO A	nnexes 1-19, ICA	O Docs. 4444,
7030, 8168. Introduction	n to the European Parliament and Council Regulation (EC), Commission Regulation (EU) and the Decisions of the Executive	Director of EASA	
621LTA2	Aircraft 2	Z,ZK	2
Manufacturers responsi	bility, responsibilities of operator and professional supervising. Legislation in area of airworthiness. International and national	tandards. Static s	solidity of aircraft
structures. Aeroelasticit	y. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presumption.		
621ZT	ATM Systems	ZK	2
The course introduces of	classical and modern facilities, systems and technologies designated for ATS. Student obtains knowledge of technical princip	es and solutions	as far as
communication, navigat	ion and surveillance aviation systems are concerned.		
621ZYL2	Principles of Flight 2	Z,ZK	5
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, gyrosc	opic effect, balance of forces in horizontal flight, glide and landing, performances, take off an climb, acceleration, positive load	d, manoevures, st	ability and
controllability, transsoni	c speeds.		
621LAG1	English for Aviation 1	KZ	3
Familiarity with the term	inology used in civil aviation in the general context and emphasizing the ability to receive information only in English.		
621PDLE	Airport Design and Operation	KZ	3
Methods for the new airp	orts design. Existing airports development. A closer look at the development of the airports operational areas. Certification of th	e operating areas	and procedures
by ICAO Airports Manua	al. Development planning and project preparation, regulatory basis.		

Code of the group: 6S K LED 21-22 P

Name of the group: 6. sem. bak. KOMBI obor LED 21-22 povinné p edm ty Requirement credits in the group: In this group you have to gain 23 credits Requirement courses in the group: In this group you have to complete 7 courses Credits in the group: 23

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 Code Completion Credits Scope Semester Role members) Tutors, authors and guarantors (gar.) **Air Transport Economy** 621ELED Z.ZK 2P+2C+14B L 4 z Jakub Hospodka Human Performance and Limitations 621LIVO Z,ZK 5 2P+2C+14B L Ζ Lenka Hanáková **Airline Business and Operations** 6210BP Z,ZK 3 2P+1C+12B L Ζ Jakub Hospodka Flight Planning and Performance 621PAP Z,ZK 4 2P+2C+14B L Ζ Jakub Hospodka **English in Aviation 2** 621LAG2 ΚZ 3 0P+2C+10B L 7 Barbora Horá ková **Aircraft Instruments** 621PJE ΚZ 2 2P+0C+8B L Ζ Jakub Hospodka **Air Traffic Control** 621RILP Ζ 2 0P+2C+8B L Ζ Terézia Pilmannová

Characteristics of the courses of this group of Study Plan: Code=6S K LED 21-22 P Name=6. sem. bak. KOMBI obor LED 21-22 povinné p edm ty

621ELED Air Transport Economy	Z,ZK	4
Economic benefits of air transport. Costs of airline. Revenue management. Fuel management. Currencies development. Demand and supply. Rates in	n air transport. Ai	rcraft selection.
Fleet asignment. Aging of aircraft. Airlines bankrupcty. Crew planning. Marketing in Air Transport. Cargo tariff and rates. Air network configuration.		
621LIVO Human Performance and Limitations	Z,ZK	5
Human performace & amp; limitations, aptibility & amp; competence, accident statistics, flight safety, basics of flight physiology, man & amp; environmer	nt, breathing &ar	np; circulation,
sensory system, health & amp; hygiene, health preservation, intoxication, incapacitation, basics of flight psychology, human information processing, me	emory & le	arning, theory
& model of human error, body rhythms & sleep, stress, fatigue, working methods.		
621OBP Airline Business and Operations	Z,ZK	3
Airline business and operation abbreviations and terminology. Civil aviation structure in the Czech republic. Act No. 49/1997 Coll., on civil aviation. Air	transport regula	tions ICAO, EU.
IATA, ICAO, ECAC, JAA, EUROCONTROL. Air operators. Air transport distribution. Global distribution and reservation systems. Agreements among ai	ir operators. Air	traffic manuals
and publications. Passenger and cargo air transport.		

621PAP	Elight Planning and Porformance			-	Z.ZK	1
Mass and balance. Load	Flight Planning and Performance of aircraft. Determination of centre of gravity - loadsheet, trimsheet. Aircraft weighing. Ov	erloading of aircraft. B	Basic charact	1	, ,	4 aracteristio
	formance. Drift down. ETOPS. MEL. Flight planning and monitoring. Routing. FL and sp	-			-	
Fuel plan. Operational fl						
	English in Aviation 2				KZ	3
621PJE	re of aircraft construction, principles of flight, aircraft engines, instruments and systems Aircraft Instruments	5			KZ	2
	rumentation and its principles and construction, aircraft electrical systems, engine mea	suring and monitoring	g systems, a	1	1	_
	icators, inertial and radio navigation means, communication means, data recorders, co	-				5
621RILP	Air Traffic Control				Z	2
	neir distribution. Organization of air traffic, flow and capacity management. Airspace ma ation of aircraft. Reports of air traffic services, the form, content. Harmonization and in					
<i>,</i> 1	trends in the area of ATC.	egration of ATC. CFN		ubsystems.	Flexible use of	anspace
Name of the bl	ock: Compulsory elective courses					
Minimal numbe	er of credits of the block: 12					
The role of the	block: PV					
Code of the ar	oup: PVP KOMBI 21-22					
•	oup: PVP pro bak .KOMBI 21-22 pro LOG a LED (hory (P271)	าง			
•		•	5)			
•	redits in the group: In this group you have to gain 1					
	ourses in the group: In this group you have to com	plete 3 cours	ses			
Credits in the g						
Note on the gro						
	Name of the course / Name of the group of courses					
Code	(in case of groups of courses the list of codes of their members)	Completion	Credits	Scope	Semester	Role
	Tutors, authors and guarantors (gar.)					
621W1BC	Aviation safety and security	KZ	4	8B	L	PV
615W1BO	Work Safety and Health Protection in Transportation	KZ	4	8B	L	PV
621W1BS	Unmanned aircraft systems 1	KZ	4	8B	L	PV
	Jakub Kraus	KZ KZ	4	_		
617W1EV	Jakub Kraus Public Sector Economy	KZ	4	8B 8B	L Z	PV PV
617W1EV 614W1HW	Jakub Kraus Public Sector Economy Computer Hardware	KZ KZ	4	8B 8B 8B	L Z L	PV PV PV
617W1EV 614W1HW 615W1HE	Jakub Kraus Public Sector Economy Computer Hardware Work Hygiene and Ergonomics in Traffic	KZ KZ KZ	4 4 4	8B 8B 8B 8B	L Z L Z	PV PV PV PV
617W1EV 614W1HW 615W1HE 617W1LL	Jakub Kraus Public Sector Economy Computer Hardware Work Hygiene and Ergonomics in Traffic Logistics of Passenger and Freight Air Transportation	KZ KZ KZ KZ	4 4 4 4 4	8B 8B 8B 8B 8B	L Z L Z L	PV PV PV PV PV
617W1EV 614W1HW 615W1HE 617W1LL 617W1MD	Jakub Kraus Public Sector Economy Computer Hardware Work Hygiene and Ergonomics in Traffic Logistics of Passenger and Freight Air Transportation Marketing in Transportation	KZ KZ KZ KZ KZ	4 4 4 4 4 4	8B 8B 8B 8B 8B 8B 8B	L Z L Z L Z Z	PV PV PV PV PV PV
617W1EV 614W1HW 615W1HE 617W1LL 617W1MD	Jakub Kraus Public Sector Economy Computer Hardware Work Hygiene and Ergonomics in Traffic Logistics of Passenger and Freight Air Transportation	KZ KZ KZ KZ	4 4 4 4 4	8B 8B 8B 8B 8B	L Z L Z L	PV PV PV PV PV
617W1EV 614W1HW	Jakub Kraus Public Sector Economy Computer Hardware Work Hygiene and Ergonomics in Traffic Logistics of Passenger and Freight Air Transportation Marketing in Transportation	KZ KZ KZ KZ KZ	4 4 4 4 4 4	8B 8B 8B 8B 8B 8B 8B	L Z L Z L Z Z	PV PV PV PV PV PV
617W1EV 614W1HW 615W1HE 617W1LL 617W1MD 621W1MP 617W1OF	Jakub Kraus Public Sector Economy Computer Hardware Work Hygiene and Ergonomics in Traffic Logistics of Passenger and Freight Air Transportation Marketing in Transportation Matlab for project-oriented study Personal Finance	KZ KZ KZ KZ KZ KZ	4 4 4 4 4 4 4	8B 8B 8B 8B 8B 8B 8B 8B	L Z L Z L Z Z Z	PV PV PV PV PV PV
617W1EV 614W1HW 615W1HE 617W1LL 617W1MD 621W1MP 617W1OF 617W1OF	Jakub Kraus Public Sector Economy Computer Hardware Work Hygiene and Ergonomics in Traffic Logistics of Passenger and Freight Air Transportation Marketing in Transportation Matlab for project-oriented study Personal Finance Alexandra Dvo á ková Personnel Management	KZ	4 4 4 4 4 4 4 4 4	8B 8B 8B 8B 8B 8B 8B 8B 8B	L Z L Z L Z Z Z Z	PV PV PV PV PV PV PV
617W1EV 614W1HW 615W1HE 617W1LL 617W1MD 621W1MP 617W1OF 617W1PM 614W1PZ	Jakub Kraus Public Sector Economy Computer Hardware Work Hygiene and Ergonomics in Traffic Logistics of Passenger and Freight Air Transportation Marketing in Transportation Matlab for project-oriented study Personal Finance Alexandra Dvo á ková Personnel Management Stanislava Holíková	KZ	4 4 4 4 4 4 4 4 4 4	8B 8B 8B 8B 8B 8B 8B 8B 8B 8B	L Z L Z L Z Z Z L	PV
617W1EV 614W1HW 615W1HE 617W1LL 617W1MD 621W1MP 617W1OF 617W1OF 617W1PM 614W1PZ 614W1PZ	Jakub Kraus Public Sector Economy Computer Hardware Work Hygiene and Ergonomics in Traffic Logistics of Passenger and Freight Air Transportation Marketing in Transportation Matlab for project-oriented study Personal Finance Alexandra Dvo á ková Personnel Management Stanislava Holíková Advanced Data Processing in Spreadsheets C Programming Language	KZ	4 4 4 4 4 4 4 4 4 4 4	8B 8B 8B 8B 8B 8B 8B 8B 8B 8B 8B	L Z L Z L Z Z Z L L Z	PV
617W1EV 614W1HW 615W1HE 617W1LL 617W1MD 621W1MP 617W1OF 617W1OF 617W1PM 614W1PZ 614W1PZ 616W1PV	Jakub Kraus Public Sector Economy Computer Hardware Work Hygiene and Ergonomics in Traffic Logistics of Passenger and Freight Air Transportation Marketing in Transportation Matlab for project-oriented study Personal Finance Alexandra Dvo á ková Personnel Management Stanislava Holíková C Programming Language Operation, Construction and Maintenance of Vehicles Human Resources Management	KZ KZ	4 4 4 4 4 4 4 4 4 4 4 4	8B 8B 8B 8B 8B 8B 8B 8B 8B 8B 8B 88	L Z L Z Z Z Z L Z L Z Z Z	PV
617W1EV 614W1HW 615W1HE 615W1HE 617W1LL 617W1MD 621W1MP 617W1OF 617W1OF 617W1PM 614W1PZ 614W1PZ 614W1PJ 616W1PV 621W1RZ	Jakub Kraus Public Sector Economy Computer Hardware Work Hygiene and Ergonomics in Traffic Logistics of Passenger and Freight Air Transportation Marketing in Transportation Matlab for project-oriented study Personal Finance Alexandra Dvo á ková Personnel Management Stanislava Holíková C Programming Language Operation, Construction and Maintenance of Vehicles Human Resources Management Šárka Václavíková	KZ	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8B 8B 8B 8B 8B 8B 8B 8B 8B 8B 8B 8B 8B 8	L Z L Z Z Z Z Z L Z L L L L	PV
617W1EV 614W1HW 615W1HE 617W1LL 617W1MD 621W1MP 617W1OF 617W1OF 614W1PZ 614W1PZ 614W1PJ 616W1PV 621W1RZ 617W1ST	Jakub Kraus Public Sector Economy Computer Hardware Work Hygiene and Ergonomics in Traffic Logistics of Passenger and Freight Air Transportation Marketing in Transportation Matlab for project-oriented study Personal Finance Alexandra Dvo á ková Personnel Management Stanislava Holíková Advanced Data Processing in Spreadsheets C Programming Language Operation, Construction and Maintenance of Vehicles Human Resources Management Sárka Václavíková Titan Simulation	KZ	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8B 8B 8B 8B 8B 8B 8B 8B 8B 8B 8B 8B 8B 8	L Z L Z Z Z Z L Z L Z L L L L	PV
617W1EV 614W1HW 615W1HE 617W1LL 617W1MD 621W1MP 617W1OF 617W1OF 614W1PZ 614W1PZ 614W1PJ 616W1PV 621W1RZ 617W1SL	Jakub Kraus Public Sector Economy Computer Hardware Work Hygiene and Ergonomics in Traffic Logistics of Passenger and Freight Air Transportation Marketing in Transportation Matlab for project-oriented study Personal Finance Alexandra Dvo á ková Personnel Management Stanislava Holíková C Programming Language Operation, Construction and Maintenance of Vehicles Human Resources Management Sárka Václavíková Titan Simulation Sociology of Human Resources Stanislava Holíková	KZ	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8B 8B 8B 8B 8B 8B 8B 8B 8B 8B 8B 8B 8B 8	L Z L Z Z Z Z Z L Z L L L L L L Z	PV
617W1EV 614W1HW 615W1HE 617W1LL 617W1MD 621W1MP 617W1OF 617W1OF 614W1PZ 614W1PZ 616W1PV 621W1RZ 617W1SL 617W1SL 617W1SL 617W1SK	Jakub Kraus Public Sector Economy Computer Hardware Work Hygiene and Ergonomics in Traffic Logistics of Passenger and Freight Air Transportation Marketing in Transportation Matlab for project-oriented study Personal Finance Alexandra Dvo á ková Personnel Management Stanislava Holíková Advanced Data Processing in Spreadsheets C Programming Language Operation, Construction and Maintenance of Vehicles Human Resources Management Sárka Václavíková Titan Simulation Sociology of Human Resources Stanislava Holíková Urban and Regional Rail Transport Systems	KZ KZ	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8B 8B 8B 8B 8B 8B 8B 8B 8B 8B 8B 8B 8B 8	L Z L Z Z Z Z L Z L Z L L L Z L L	PV PV
617W1EV 614W1HW 615W1HE 617W1LL 617W1MD 621W1MP 617W1OF 617W1OF 617W1PM 614W1PZ 614W1PZ 614W1PJ 616W1PV	Jakub Kraus Public Sector Economy Computer Hardware Work Hygiene and Ergonomics in Traffic Logistics of Passenger and Freight Air Transportation Marketing in Transportation Matlab for project-oriented study Personal Finance Alexandra Dvo á ková Personnel Management Stanislava Holíková C Programming Language Operation, Construction and Maintenance of Vehicles Human Resources Management Sárka Václavíková Titan Simulation Sociology of Human Resources Stanislava Holíková	KZ	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8B 8B 8B 8B 8B 8B 8B 8B 8B 8B 8B 8B 8B 8	L Z L Z Z Z Z Z L Z L L L L L L Z	PV

Characteristics of the courses of this group of Study Plan: Code=PVP KOMBI 21-22 Name=PVP pro bak .KOMBI 21-22 pro LOG a LED obory (B3710)

621W1BC	Aviation safety and security	KZ	4
History of safety and s	ecurity development in aviation. Modern tools for safety and security management. Research and development of safe and se	cure systems.	
615W1BO	Work Safety and Health Protection in Transportation	KZ	4
Fundamental legislativ	e, definition of terms, risks and possible health damage, working conditions and health protection with focus on transportation	h. Health protectio	n programmes,
health insurance of ho	me and foreign business trips, statistics, working practice.		
621W1BS	Unmanned aircraft systems 1	KZ	4
Unmanned Aviation D	evelopment. Aircraft design. Legislation in force in the Czech Republic. Planning and execution of the flight. Airspace division.	Operational risks	and operational
procedures. Practical	lights.		

617W1EV Public Sector Economy	KZ	4
Economic and financial theory of public sector, public choice theory, externalites, decisions about public finance allocation, economic assessment of	public projects (Cl	BA, MCA, CEA),
tax system of the CR, state budget, management of public projects a their economic efficiency assessment, way of elaboration of PPP projects, fundir	-	-
614W1HW Computer Hardware	KZ	4
Computer architecture, basics of logical circuits design and their realization using FPGA. In detail, description of computer architecture and separat	e parts designing	- controllers,
arithmetic and logical units, I/O subsystem.	×7	4
615W1HE Work Hygiene and Ergonomics in Traffic Basic knowledge of occupational hygiene and ergonomics, and their application in transport. Working environment factors, and the influence of these	KZ	4 h of workers
Creation and protection of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology t		
Practical examples from the field of transportation; relevant legislative.		
617W1LL Logistics of Passenger and Freight Air Transportation	KZ	4
Logistics airline passenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial	transport process	passengers and
air cargo. Information systems in air transport. Global distribution systems.		
617W1MD Marketing in Transportation	KZ	4
General principles of marketing applied to transport issues, marketing tools suitable for transport as a service, specifics of public passenger transport	ort and the resultin	g differences in
the application of marketing.	1/7	
621W1MP Matlab for project-oriented study	KZ	4
The subject's syllabus is focused on the problem-solving during bachelor's thesis preparation and it is based on students' requests. Individual exerc particular examples, based on actual students' needs and suggestions. The subject will have a flexible form, which is expected to bring an improven		
617W1OF Personal Finance	KZ	4
Personal finance (budget, financing of basic living needs), debt (loans and credits, payment instruments, interest and fees, debt trap), financing of h	1	-
consumer loans, refinancing), savings and investments (investment horizon, return, risk, investment strategy), insurance (insurance types, suitability		
(retirement savings and insurance).		-
617W1PM Personnel Management	KZ	4
Human sources, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, intercu	Iltural communicat	ion.
614W1PZ Advanced Data Processing in Spreadsheets	KZ	4
Students will be familiar with principles of working in a spreadsheet. Graphic layout of the table appearance, formatting of numbers, insertion of form		
addressing, error detection. Working with large spreadsheets, filters, advanced filters, database functions. Pivot tables and charts, conditional formatting	ng, solution finding	, solver, macros,
data analysis. Examples and questions from various companies and training.	V7	4
614W1PJ C Programming Language	KZ	4 ures and unions
614W1PJ C Programming Language C programming language. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation,	1	
614W1PJ C Programming Language C programming language. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation, Implementations of abstract data types (FIFO, LIFO, list), programming techniques (sorting, searching, recursion), using bitwise oprerators.	string, files, struct	
614W1PJ C Programming Language C programming language. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation,	string, files, struct	ures and unions.
614W1PJC Programming LanguageC programming language. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation, Implementations of abstract data types (FIFO, LIFO, list), programming techniques (sorting, searching, recursion), using bitwise oprerators.616W1PVOperation, Construction and Maintenance of Vehicles	string, files, struct	ures and unions.
614W1PJ C Programming Language C programming language. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation, Implementations of abstract data types (FIFO, LIFO, list), programming techniques (sorting, searching, recursion), using bitwise oprerators. 616W1PV Operation, Construction and Maintenance of Vehicles Methods of vehicle production. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measur General principles of engine diagnostics. 621W1RZ Human Resources Management	string, files, struct KZ ement. Transmissi KZ	ures and unions. 4 on mechanism. 4
614W1PJ C Programming Language C programming language. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation, Implementations of abstract data types (FIFO, LIFO, list), programming techniques (sorting, searching, recursion), using bitwise oprerators. 616W1PV Operation, Construction and Maintenance of Vehicles Methods of vehicle production. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measur General principles of engine diagnostics. 621W1RZ Human Resources Management The position of human resources in the organization and related disciplines file. Substance, importance and challenges of human resources management	string, files, struct KZ ement. Transmissi KZ ement. Internal an	ures and unions. 4 on mechanism. 4 nd external
614W1PJ C Programming Language C programming language. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation, Implementations of abstract data types (FIFO, LIFO, list), programming techniques (sorting, searching, recursion), using bitwise oprerators. 616W1PV Operation, Construction and Maintenance of Vehicles Methods of vehicle production. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measur General principles of engine diagnostics. 621W1RZ Human Resources Management The position of human resources in the organization and related disciplines file. Substance, importance and challenges of human resources manage environment of human resource management. Human resource planning. Search, recruitment and selection of employees. Motivation, evaluation and	string, files, struct KZ ement. Transmissi KZ ement. Internal an	ures and unions. 4 on mechanism. 4 nd external
614W1PJ C Programming Language C programming language. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation, Implementations of abstract data types (FIFO, LIFO, list), programming techniques (sorting, searching, recursion), using bitwise oprerators. 616W1PV Operation, Construction and Maintenance of Vehicles Methods of vehicle production. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measur General principles of engine diagnostics. 621W1RZ Human Resources Management The position of human resources in the organization and related disciplines file. Substance, importance and challenges of human resources manage environment of human resource management. Human resource planning. Search, recruitment and selection of employees. Motivation, evaluation and dismissal and redundancies of employees. Education of employees. Planning career management.	string, files, struct KZ ement. Transmissi KZ ement. Internal and d remuneration of s	4 on mechanism. 4 d external staff. Positioning,
614W1PJ C Programming Language C programming language. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation, Implementations of abstract data types (FIFO, LIFO, list), programming techniques (sorting, searching, recursion), using bitwise oprerators. 616W1PV Operation, Construction and Maintenance of Vehicles Methods of vehicle production. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measur General principles of engine diagnostics. 621W1RZ Human Resources Management The position of human resources in the organization and related disciplines file. Substance, importance and challenges of human resources management. Human resource planning. Search, recruitment and selection of employees. Motivation, evaluation and dismissal and redundancies of employees. Education of employees. Planning career management. 617W1ST Titan Simulation	string, files, struct KZ ement. Transmissi KZ ement. Internal and d remuneration of s KZ	4 on mechanism. 4 d external staff. Positioning,
614W1PJ C Programming Language C programming language. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation, Implementations of abstract data types (FIFO, LIFO, list), programming techniques (sorting, searching, recursion), using bitwise oprerators. 616W1PV Operation, Construction and Maintenance of Vehicles Methods of vehicle production. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measur General principles of engine diagnostics. 621W1RZ Human Resources Management The position of human resources in the organization and related disciplines file. Substance, importance and challenges of human resources manage environment of human resource management. Human resource planning. Search, recruitment and selection of employees. Motivation, evaluation and dismissal and redundancies of employees. Education of employees. Planning career management. 617W1ST Titan Simulation Titan is a management game simulating the business decisions. Lets 2-8 student groups to produce and compete in the market with the same produce	string, files, struct KZ ement. Transmissi KZ ement. Internal and d remuneration of s KZ uct. Students set a	4 on mechanism. 4 d external staff. Positioning, 4 a price and
614W1PJ C Programming Language C programming language. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation, Implementations of abstract data types (FIFO, LIFO, list), programming techniques (sorting, searching, recursion), using bitwise oprerators. 616W1PV Operation, Construction and Maintenance of Vehicles Methods of vehicle production. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measur General principles of engine diagnostics. 621W1RZ Human Resources Management The position of human resources in the organization and related disciplines file. Substance, importance and challenges of human resources management. Human resource planning. Search, recruitment and selection of employees. Motivation, evaluation and dismissal and redundancies of employees. Education of employees. Planning career management. 617W1ST Titan Simulation	string, files, struct KZ ement. Transmissi KZ ement. Internal and d remuneration of s KZ uct. Students set a	4 on mechanism. 4 d external staff. Positioning, 4 a price and
614W1PJ C Programming Language C programming language. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation, Implementations of abstract data types (FIFO, LIFO, list), programming techniques (sorting, searching, recursion), using bitwise oprerators. 616W1PV Operation, Construction and Maintenance of Vehicles Methods of vehicle production. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measur General principles of engine diagnostics. 621W1RZ Human Resources Management The position of human resources in the organization and related disciplines file. Substance, importance and challenges of human resources manage environment of human resource management. Human resource planning. Search, recruitment and selection of employees. Motivation, evaluation and 617W1ST Titan Simulation Titan is a management game simulating the business decisions. Lets 2-8 student groups to produce and compete in the market with the same prod determine the quantity and capacity of production, plan budgets for marketing, research and development. They become familiar with the conseque	string, files, struct KZ ement. Transmissi KZ ement. Internal and d remuneration of s KZ uct. Students set a	4 on mechanism. 4 d external staff. Positioning, 4 a price and
614W1PJ C Programming Language C programming language. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation, Implementations of abstract data types (FIFO, LIFO, list), programming techniques (sorting, searching, recursion), using bitwise oprerators. 616W1PV Operation, Construction and Maintenance of Vehicles Methods of vehicle production. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measur General principles of engine diagnostics. 621W1RZ Human Resources Management The position of human resources in the organization and related disciplines file. Substance, importance and challenges of human resources manage environment of human resource management. Human resource planning. Search, recruitment and selection of employees. Motivation, evaluation and 617W1ST Titan Simulation Titan is a management game simulating the business decisions. Lets 2-8 student groups to produce and compete in the market with the same prod determine the quantity and capacity of production, plan budgets for marketing, research and development. They become familiar with the conseque of financial corporate reports and they use this information for other business decisions.	ktring, files, struct KZ ement. Transmissi KZ ement. Internal and remuneration of s KZ uct. Students set a nces of their decis	4 on mechanism. 4 d external staff. Positioning, 4 a price and tions by the form 4
614W1PJ C Programming Language C programming language. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation, Implementations of abstract data types (FIFO, LIFO, list), programming techniques (sorting, searching, recursion), using bitwise oprerators. 616W1PV Operation, Construction and Maintenance of Vehicles Methods of vehicle production. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measur General principles of engine diagnostics. 621W1RZ Human Resources Management The position of human resources in the organization and related disciplines file. Substance, importance and challenges of human resources manage environment of human resource management. Human resource planning. Search, recruitment and selection of employees. Motivation, evaluation and 617W1ST Titan Simulation Titan is a management game simulating the business decisions. Lets 2-8 student groups to produce and compete in the market with the same prod determine the quantity and capacity of production, plan budgets for marketing, research and development. They become familiar with the conseque of financial corporate reports and they use this information for other business decisions. 617W1SL Sociology of Human Resources	ktring, files, struct KZ ement. Transmissi KZ ement. Internal and remuneration of s KZ uct. Students set a nces of their decis	4 on mechanism. 4 d external staff. Positioning, 4 a price and tions by the form 4
614W1PJ C Programming Language C programming language. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation, Implementations of abstract data types (FIFO, LIFO, list), programming techniques (sorting, searching, recursion), using bitwise oprerators. 616W1PV Operation, Construction and Maintenance of Vehicles Methods of vehicle production. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measur General principles of engine diagnostics. 621W1RZ Human Resources Management The position of human resources in the organization and related disciplines file. Substance, importance and challenges of human resources manage environment of human resource management. Human resource planning. Search, recruitment and selection of employees. Motivation, evaluation and 617W1ST Titan Simulation Titan is a management game simulating the business decisions. Lets 2-8 student groups to produce and compete in the market with the same prod determine the quantity and capacity of production, plan budgets for marketing, research and development. They become familiar with the conseque of financial corporate reports and they use this information for other business decisions. 617W1SL Sociology of Human Resources Human resources and their importance, work group as a special kind of social group, communication, personal management, modern management, of the organization. 617W1SK	kring, files, struct KZ ement. Transmissi KZ ement. Internal and remuneration of s KZ uct. Students set a nces of their decis KZ human resources KZ	4 on mechanism. 4 od external staff. Positioning, 4 a price and sions by the form 4 planning, culture 4
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Name of the block: Jazyky Minimal number of credits of the block: 6 The role of the block: J

Code of the group: JZ 2 K (5.-6.SEM) Name of the group: Jazyky KOMBI bak. pro 5. a 6. sem. (2.cizí jazyk) - pro B3710 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:

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
615JZ3F	Foreign Language - French 3	Z	3	0P+4C+10B	Z	J
615JZ3I	Foreign Language - Italian 3	Z	3	0P+4C+10B	Z	J
615JZ3N	Foreign Language - German 3 René Skalický	Z	3	0P+4C+10B	Z	J
615JZ3R	Foreign Language - Russian 3 Vilma Gottwaldová	Z	3	0P+4C+10B	Z	J
615JZ3S	Foreign Language - Spanish 3	Z	3	0P+4C+10B	Z	J
615JZ4F	Foreign Language - French 4	Z,ZK	3	0P+4C+10B	6 L	J
615JZ4I	Foreign Language - Italian 4	Z,ZK	3	0P+4C+10B	L	J
615JZ4N	Foreign Language - German 4 René Skalický, Sv tlana Petrová, Eva Rezlerová	Z,ZK	3	0P+4C+10B	L	J
615JZ4R	Foreign Language - Russian 4 Vilma Gottwaldová	Z,ZK	3	0P+4C+10B	L	J
615JZ4S	Foreign Language - Spanish 4	Z,ZK	3	0P+4C+10B	L	J

Characteristics of the courses of this group of Study Plan: Code=JZ 2 K (5.-6.SEM) Name=Jazyky KOMBI bak. pro 5. a 6. sem. (2.cizí jazyk) - pro B3710

615JZ3F	Foreign Language - French 3	Z	3
Grammar and stylistics.	Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement	of language struct	ure knowledge
and perceptive and corr	municative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	ork with (professior	nal) text and its
features. Practice of ora	I and written presentation.		
615JZ3I	Foreign Language - Italian 3	Z	3
Grammar and stylistics.	Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement	of language struct	ure knowledge
and perceptive and corr	municative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	ork with (profession	nal) text and its
features. Practice of ora	I and written presentation.		
615JZ3N	Foreign Language - German 3	Z	3
Grammar and stylistics.	Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement	of language struct	ure knowledge
and perceptive and com	municative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	ork with (profession	al) text and its
features. Practice of ora	I and written presentation.		
615JZ3R	Foreign Language - Russian 3	Z	3
Grammar and stylistics.	Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement	of language struct	ure knowledge
and perceptive and com	municative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	ork with (profession	al) text and its
features. Practice of ora	I and written presentation.		
615JZ3S	Foreign Language - Spanish 3	Z	3
	Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement		
and perceptive and corr	municative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	ork with (profession	al) text and its
features. Practice of ora	I and written presentation.		
615JZ4F	Foreign Language - French 4	Z,ZK	3
Grammar and stylistics.	Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement	of language struct	ure knowledge
and perceptive and corr	municative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	ork with (profession	al) text and its
features. Practice of ora	I and written presentation.		
615JZ4I	Foreign Language - Italian 4	Z,ZK	3
Grammar and stylistics.	Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement	of language struct	ure knowledge
and perceptive and corr	municative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	ork with (profession	al) text and its
features. Practice of ora	I and written presentation.		
615JZ4N	Foreign Language - German 4	Z,ZK	3
Grammar and stylistics.	Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement	of language struct	ure knowledge
and perceptive and corr	municative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	ork with (profession	al) text and its
features. Practice of ora	I and written presentation.		
615JZ4R	Foreign Language - Russian 4	Z,ZK	3
Grammar and stylistics.	Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement	of language struct	ure knowledge
and perceptive and corr	municative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	ork with (profession	al) text and its
features. Practice of ora	I and written presentation.		
615JZ4S	Foreign Language - Spanish 4	Z,ZK	3
	Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement		
and perceptive and com	municative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	ork with (profession	al) text and its
features. Practice of ora	I and written presentation.		

List of courses of this pass:

Code	Name of the course	Completion	Credits
	Calculus 1 umbers and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative. Geometric properties of n-dim		
Cartesia 611CAL2	an coordinate system. Geometric meaning of the differential of functions several real variables, differential calculus of functions of sev Calculus 2	veral real variables.	5
Antiderivative, Ne	wtonian integral, Riemannian integral of the function of one variable, improper Riemannian integral, Riemannian integral in Rn. Para faces in Rn, Riemannian integral over regular surfaces. Line and surface integrals of the second type, Stokes theorems, ordinary diff order, linear differential equations with constant coefficients and its systems.	metric description	of regular
611FYZ	Physics Kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodynamics.	Z,ZK	5
611GIE	Geometry	KZ	3
torsion a	oblique projections, linear perspective. Topographic surfaces and their orthogonal projection. Differential geometry of curves - param and curvature, Frenet's trihedron. Kinematics - a curve as a trajectory of the motion, the velocity and acceleration of a particle moving	g on a curved path	
611LA Vector spaces (line	Linear Algebra ar combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and the	Z,ZK	3 minants and
	their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classification		
611MSP	Modeling of Systems and Processes	Z,ZK	4
	tem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differe inear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function		•
	Discretization of continuous systems. System interconnection.		,
611STAT	Statistics	Z,ZK	4
	ility, random variable and its description, known distributions, random vector, function of random variable. Methods of point estimation. T		
Regression and cor	relation, linear regression, correlation coefficient, coefficient of determination, the general linear model, statistical inference in linear re multiple regression, the use of matrices in regression.	gression, analysis	of variance,
612MDE	Transport Models and Transport Excesses	Z,ZK	3
	raffic flow and methods for their measurement. Models of the traffic flow, communications load, line and urban systems. Theory of qu		s. Quality of
transport and its a	ssessment. Statistical characteristics of transport. Transport excesses, their analysis, the causes, identify and minimize the conseque safety and fluency.	ences. Improving o	f transport
612PPOK	Designing Roads, Highways and Motorways	KZ	3
	ownership, maintenance, management and categorization of roads and highways. Curve and transition curve. Sinuosity and standard stopping and overtaking. Road body - shapes and proportions, bottom and superstructure. Drainage and components of roads. Safet intersections.	•	
612ZTS	Railway Lines and Stations	Z,ZK	4
Rail transport. Ra	ilway track geometry parameters. Route layout of railway lines. Railway line construction - railway substructure and superstructure. S Railway control systems in relation to infrastructure. Operating and carriage points. Railway lines net and category. Traction in rail t	ransport.	-
612ZYDK	Introduction to Transportation Engineering	Z,ZK	3
Role of transportation	on in land-use planning. Basic terms in transportation engineering. Traffic survey and traffic prognosis. Introduction to topic of roads, p impacts of transportation to environment and safety.	ublic mass transpo	ort. Negative
614ASD	Algorithm and Data Structures	KZ	3
Students will be fam	illiarized with selected basic and derived data structures, algorithms, their properties and their design procedure. Students will analyze t task and the resulting algorithm write by means of flowcharts, practice in reading algorithms recorded by means of the flowchart ar	problems, propose	e theoretical
	algebra with forming the conditions for the algorithms.		
614DATS	Database Systems	KZ	2
	f database systems, conceptual model, relational data model, the principles of normal forms, relational database design, security an queries, relational algebra, SQL language, client / server, multilayer architectures, distributed database systems. Access to data via		database
614KSP	Constructing with Computer Aid	KZ	2
	m determination. CAD role in projecting system model. Existing CAD systems on Czech market. Project creation, basic common wor		applications
	Co-ordinated systems, CAD environment skill (basics of constructing, dimensioning, modifications, user interfaces, projecting possib profiles, drawings with raster foundaments).	ilites, AutoCAD en	vironment
614PRG	Programming	KZ	2
Algorithm develop	oment, methods of structured programming, high-level programming languages, basics of C programming languages (types, variable functions), programming techniques, complexity.	-	es, arrays,
614W1HW	Computer Hardware	KZ	4
	cture, basics of logical circuits design and their realization using FPGA. In detail, description of computer architecture and separate arithmetic and logical units, I/O subsystem.		
614W1PJ	C Programming Language	KZ	4
	guage. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation, strir Implementations of abstract data types (FIFO, LIFO, list), programming techniques (sorting, searching, recursion), using bitwise op	-	anu unions.
614W1PZ	Advanced Data Processing in Spreadsheets	KZ	4
	familiar with principles of working in a spreadsheet. Graphic layout of the table appearance, formatting of numbers, insertion of formutations. Working with large appendix places fillers, advanced fillers, database functions. Direct tables and aborts, appendix and the series of the		-
audressing, enor de	etection. Working with large spreadsheets, filters, advanced filters, database functions. Pivot tables and charts, conditional formatting, s data analysis. Examples and questions from various companies and training.	olution maing, solv	ver, macros,
L	, i i i i i v v v v		

614W1UP			
Students will be	Editing of Theses in MS Word	KZ	4
Students will be	introduced to the principles of creating and editing large documents and basic typographic rules. They will properly apply styles, creat	e tables of conter	nts, lists of
igures, tables, gra	phs, etc. Footnotes, captions, index. They practice corrections of finished documents. The goal is to prepare students for seamless ed	iting dissertations	and theses
	so that they are able to concentrate mainly on writing a thesis.		
615DPLG	Transportation Psychology	Z	2
subject of psychol	ogy and its basic concepts. Information intake, decision-making and behaviour. Performance. Engineering psychology and vehicle const	ruction. Psycholog	gical aspect
of trav	el route and traffic conditions, accidents and traffic incidents. Selection and training of the staff. Work and leisure. Age as a factor in tra	ansport operation	
615JZ1A	Foreign Language - English 1	Z	3
Grammatical struc	tures and style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and co	nmunicative skills	Elementar
	stylistics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles of	f rhetoric.	
615JZ2A	Foreign Language - English 2	Z,ZK	3
	tures and style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and cor	nmunicative skills	Elementa
	stylistics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles c		
615JZ3F	Foreign Language - French 3	Z	3
	listics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la	_	-
-	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v		-
	features. Practice of oral and written presentation.	, , , , , , , , , , , , , , , , , , ,	
615JZ3I	Foreign Language - Italian 3	Z	3
	listics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		-
	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v		-
	features. Practice of oral and written presentation.		
615JZ3N	Foreign Language - German 3	Z	3
	listics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la	_	-
	indices. Selection of conversation and processional topics based on the language level and study local at the racety, improvement of a ind communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v		-
	features. Practice of oral and written presentation.		
615JZ3R	Foreign Language - Russian 3	Z	3
	FOIEIGIT Language - Russian 5 listics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la	_	-
-	ind communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v		-
and perceptive an	features. Practice of oral and written presentation.	nin (professional)	
045 1700		7	2
615JZ3S	Foreign Language - Spanish 3	—	3
-	listics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		-
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615JZ4F	Foreign Language - French 4	Z,ZK	3
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615JZ4I	Foreign Language - Italian 4	Z,ZK	3
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617W1EV	Public Sector Economy	KZ	4
	ncial theory of public sector, public choice theory, externalites, decisions about public finance allocation, economic assesment of public		1 .
	R, state budget, management of public projects a their economic efficiency assessment, way of elaboration of PPP projects, funding from		,
617W1LL ogistics airline pas	Logistics of Passenger and Freight Air Transportation	KZ port process pas	4 sengers a
617W1MD	air cargo. Information systems in air transport. Global distribution systems.	KZ	4
	Marketing in Transportation of marketing applied to transport issues, marketing tools suitable for transport as a service, specifics of public passenger transport an the application of marketing.		
-	Personal Finance budget, financing of basic living needs), debt (loans and credits, payment instruments, interest and fees, debt trap), financing of housi financing), savings and investments (investment horizon, return, risk, investment strategy), insurance (insurance types, suitability and a (retirement savings and insurance).		
617W1PM	Personnel Management	KZ	4
	ces, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, interc		cation.
-	Urban and Regional Rail Transport Systems transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, lin e timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transpo marketing.	-	-
617W1SL uman resources a	Sociology of Human Resources and their importance, work group as a special kind of social group, communication, personal management, modern management, huma	KZ In resources plan	4 nning, cultu
617W1ST	of the organization. Titan Simulation	KZ	4
	jement game simulating the business decisions. Lets 2-8 student groups to produce and compete in the market with the same produc		-
-	tity and capacity of production, plan budgets for marketing, research and development. They become familiar with the consequences of financial corporate reports and they use this information for other business decisions.		•
618MTY	Materials Science and Engineering	Z,ZK	3
	terials science and engineering explains mechanical properties of structural materials based on their bonding forces and microstructures the most important engineering materials, also other major classes of materials are presented, namely ceramics, polymers and complete the decodering process is materials to defect ensure and the major classes of materials are presented.		
618PZP	to degradation processes in materials, to defectoscopy and to main mechanical tests. Elasticity and Strength	Z.ZK	3
ension and compr	ession. Bending of beam. Shear stress during bending of beam. Design and analysis of cross section of beam. Design of riveted, bolted	and welded joint	t of structu
-	ection curve of beam. Torsion of circle cross section. Combined loading. Stability of compressed bar and buckling. Beam on elastic four		-
618SAT General system of	Structural Analysis forces in plane and space. Calculation of reactions of bodies and structures. Assessment of internal forces on statically determinate	Z,ZK beams and simp	4 4
	vork. Kinematic method for calculation of reactions of statically determinate systems. Determination of axial forces in truss constructions. C		•
618TED	of planar shapes. Fiber polygons and chains. Technical Documentation	KZ	2
	rds, international standardization, technical drawings, representation of technical objects, technical diagrams and charts, dimensional		
	arrangement of drawing sheets.		
620SYSA	Systems Analysis em sciences, system viewpoint, terminology, typical system analysis tasks, system identification, system interface and interface tasks,	Z,ZK	5
	strong functions and processes, genetic code, system identity, system architecture. Tools for system analysis - Petri nets, decision tabl tasks. Soft and hard systems, methods for soft system analysis.		
620UITS	Introduction to Intelligent Transport Systems	Z,ZK	7
erminology and le	gislative framework telematics systems and their architecture. Telematics systems in practice and their operation. Fundamentals of inform inciples and technical support measurement of traffic data, localization and navigation. Practical work with traffic data. Real examples of	nation and teleco	
621ELED	principles of ITS. Air Transport Economy	Z,ZK	4
conomic benefits	of air transport. Costs of airline. Revenue management. Fuel management. Currencies development. Demand and supply. Rates in air Fleet asignment. Aging of aircraft. Airlines bankrupcty. Crew planning. Marketing in Air Transport. Cargo tariff and rates. Air network cor	r transport. Aircra	
621LAG1	English for Aviation 1 Familiarity with the terminology used in civil aviation in the general context and emphasizing the ability to receive information only in	KZ English.	3
621LAG2	English in Aviation 2 Terminology in the sphere of aircraft construction, principles of flight, aircraft engines, instruments and systems.	KZ	3
621LCM	Aircraft Engines	Z,ZK	3
	ine, theoretical background, operational characteristics and construction schemes. Propellers, operational characterictics. Turbine eng onstruction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational cha		-
621LGP	Legislation and Operational Regulations	Z,ZK	5
ntroduction into a	viation regulations. The scope of international and national organizations in civil aviation. Analysis and interpretation of the ICAO Anne	exes 1-19, ICAO	Docs. 444
7030, 8168 621LIVO	. Introduction to the European Parliament and Council Regulation (EC), Commission Regulation (EU) and the Decisions of the Execut Human Performance and Limitations	ive Director of E	ASA. 5
	e & limitations, aptibility & competence, accident statistics, flight safety, basics of flight physiology, man & environment,	,	1
sensory system, ł	nealth & hygiene, health preservation, intoxication, incapacitation, basics of flight psychology, human information processing, mer & model of human error, body rhythms & sleep, stress, fatigue, working methods.	nory & learr	ning, theoi
621LL1	Aircraft 1	KZ	3
	nd conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and cat		1
ircraft structural a			
sircraft structural a	Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topics Aircraft 2	z,ZK	2

621LTN	Air Navigation	Z,ZK	2
	barameters and properties. Aeronautical charts and their use. Measuring time. Dead reckoning. Radionavigation aids. Global navigation		
	services routes and their design.		
621LTTE	Aerodromes	Z,ZK	4
Aerodrome refere	nce point and temperature, TORA, TODA, ASDA, LDA. Taxiway and apron. Clearway. Stopway. Obstacle limitation surfaces. Runway ma	arking. Runway	zone lights
	Environmental conditions. Public traffic.		
621MRG	Meteorology	KZ	3
Structure of atmo	sphere. Vertical stratification. Pressures QNH, QFE, QFF, QME. Instability. Atmospherical fronts. Atmospherical rainfall, origin fission. To	urbulence. Powe	ers causing
ind. Cyclone and a	anticyclone. Gradient wind. Geostrofical and geocyklostrofical wind. Visibilities in air transport. Dangerous meteorological aspects. Meteo Circulation. Intertropical front. Meteorological informations.	prological maps.	. Climatolog
6210BP	Airline Business and Operations	Z,ZK	3
irline business an	d operation abbreviations and terminology. Civil aviation structure in the Czech republic. Act No. 49/1997 Coll., on civil aviation. Air tran	sport regulation	ns ICAO, E
ATA, ICAO, ECAC	c, JAA, EUROCONTROL. Air operators. Air transport distribution. Global distribution and reservation systems. Agreements among air op and publications. Passenger and cargo air transport.	perators. Air tra	ffic manua
621PAP	Flight Planning and Performance	Z,ZK	4
-	Load of aircraft. Determination of centre of gravity - loadsheet, trimsheet. Aircraft weighing. Overloading of aircraft. Basic characteristic spe	,	
	g performance. Drift down. ETOPS. MEL. Flight planning and monitoring. Routing. FL and speeds selection. Charts. ICAO ATC FPL. Aer	-	
	Fuel plan. Operational flight plan.	ouronn oporado	, i i i i i i i i i i i i i i i i i i i
621PDLE	Airport Design and Operation	KZ	3
	v airports design. Existing airports development. A closer look at the development of the airports operational areas. Certification of the ope		-
	by ICAO Airports Manual. Development planning and project preparation, regulatory basis.	a du	a procodui
621PJE	Aircraft Instruments	KZ	2
	aft instrumentation and its principles and construction, aircraft electrical systems, engine measuring and monitoring systems, air data d		1
	gyroscopic indicators, inertial and radio navigation means, communication means, data recorders, complex flight and navigation data p	-	-
621RILP		7	2
-	and their distribution. Organization of air traffic, flow and capacity management. Airspace management. System support for aircraft flying	—	
	Separation of aircraft. Reports of air traffic services, the form, content. Harmonization and integration of ATC. CFMU and its subsystem		• •
	FUA. RVSM, RNP. New trends in the area of ATC.		or anopaot
621ULCT	Aircraft Maintenance	Z	2
	and technical operations. Maintenance and work processes. Defects search methods, status check diagnostic tools. Selection and qualifi	_	
	EASA for aircraft maintenance. Seminars will be focused on practical application.		
621W1BC History of	Aviation safety and security	KZ	4
History of	Aviation safety and security f safety and security development in aviation. Modern tools for safety and security management. Research and development of safe an	KZ d secure syster	4 ms.
History of 621W1BS	Aviation safety and security f safety and security development in aviation. Modern tools for safety and security management. Research and development of safe an Unmanned aircraft systems 1 n Development. Aircraft design. Legislation in force in the Czech Republic. Planning and execution of the flight. Airspace division. Operation	KZ d secure syster KZ	4 ms. 4
History of 621W1BS Jnmanned Aviatio	Aviation safety and security f safety and security development in aviation. Modern tools for safety and security management. Research and development of safe an Unmanned aircraft systems 1 n Development. Aircraft design. Legislation in force in the Czech Republic. Planning and execution of the flight. Airspace division. Opera procedures. Practical flights.	KZ d secure syster KZ ational risks and	4 ms. 4 d operation
History of 621W1BS Jnmanned Aviatio 621W1MP	Aviation safety and security f safety and security development in aviation. Modern tools for safety and security management. Research and development of safe an Unmanned aircraft systems 1 n Development. Aircraft design. Legislation in force in the Czech Republic. Planning and execution of the flight. Airspace division. Opera procedures. Practical flights. Matlab for project-oriented study	KZ d secure syster KZ ational risks and	4 ms. 4 d operation 4
History of 621W1BS Jnmanned Aviatio 621W1MP The subject's sylla	Aviation safety and security f safety and security development in aviation. Modern tools for safety and security management. Research and development of safe an Unmanned aircraft systems 1 n Development. Aircraft design. Legislation in force in the Czech Republic. Planning and execution of the flight. Airspace division. Opera procedures. Practical flights. Matlab for project-oriented study bus is focused on the problem-solving during bachelor's thesis preparation and it is based on students' requests. Individual exercises w	KZ d secure syster KZ ational risks and KZ rill be prepared	4 ms. d operation 4 according
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History of 621W1BS Jnmanned Aviation 621W1MP The subject's syllal particular examp 621W1RZ The position of h	Aviation safety and security f safety and security development in aviation. Modern tools for safety and security management. Research and development of safe an Unmanned aircraft systems 1 n Development. Aircraft design. Legislation in force in the Czech Republic. Planning and execution of the flight. Airspace division. Opera procedures. Practical flights. Matlab for project-oriented study bus is focused on the problem-solving during bachelor's thesis preparation and it is based on students' requests. Individual exercises w les, based on actual students' needs and suggestions. The subject will have a flexible form, which is expected to bring an improvement Human Resources Management numan resources in the organization and related disciplines file. Substance, importance and challenges of human resources management and selection of employees. Motivation, evaluation and remu	KZ d secure syster KZ ational risks and kZ vill be prepared of students' Ma KZ ent. Internal an	4 ms. d operation 4 according atlab skills. 4 d external
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History of 621W1BS Jnmanned Aviation 621W1MP The subject's syllal particular examp 621W1RZ The position of the nvironment of hum 621W1TH Aircraft towing a pa	Aviation safety and security f safety and security development in aviation. Modern tools for safety and security management. Research and development of safe an Unmanned aircraft systems 1 n Development. Aircraft design. Legislation in force in the Czech Republic. Planning and execution of the flight. Airspace division. Opera procedures. Practical flights. Matlab for project-oriented study bus is focused on the problem-solving during bachelor's thesis preparation and it is based on students' requests. Individual exercises w les, based on actual students' needs and suggestions. The subject will have a flexible form, which is expected to bring an improvement Human Resources Management numan resources in the organization and related disciplines file. Substance, importance and challenges of human resources managem nar resource management. Human resource planning. Search, recruitment and selection of employees. Motivation, evaluation and remu dismissal and redundancies of employees. Education of employees. Planning career management. Aircraft Technical Handling and pushing tractors. GPU. Air conditioning and heating units. Aircraft fuel equipment. De-acing and anti-icing units. Loading and unload sangers onboarding and offboarding. Operational processes of aircraft technical handling and regulations. Modernization and technical sangers onboarding and offboarding. Operational processes of aircraft technical handling and regulations. Modernization and technical technical handling and regulations. Modernization and technical technical handling and regulat	KZ d secure syster KZ ational risks and rill be prepared of students' Ma KZ ent. Internal an neration of staff KZ ding units. Equip al progress.	4 ns. 4 4 4 4 according atlab skills. 4 4 d external f. Positionir 4 pment for
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History of 621W1BS Jnmanned Aviation 621W1MP The subject's syllal particular examp 621W1RZ The position of the nvironment of hum 621W1TH Aircraft towing a pa 621ZALD listory, definitions,	Aviation safety and security f safety and security development in aviation. Modern tools for safety and security management. Research and development of safe an Unmanned aircraft systems 1 n Development. Aircraft design. Legislation in force in the Czech Republic. Planning and execution of the flight. Airspace division. Opera procedures. Practical flights. Matlab for project-oriented study bus is focused on the problem-solving during bachelor's thesis preparation and it is based on students' requests. Individual exercises w les, based on actual students' needs and suggestions. The subject will have a flexible form, which is expected to bring an improvement Human Resources Management numan resources in the organization and related disciplines file. Substance, importance and challenges of human resources managem nan resource management. Human resource planning. Search, recruitment and selection of employees. Motivation, evaluation and remu dismissal and redundancies of employees. Education of employees. Planning career management. Aircraft Technical Handling and pushing tractors. GPU. Air conditioning and heating units. Aircraft fuel equipment. De-acing and anti-icing units. Loading and unload ssangers onboarding and offboarding. Operational processes of aircraft technical handling and regulations. Modernization and technica Basics of Air Transport terminology, basic rules. VFR/IFR. Basics of aerodynamics. Propulsion of aircraft. Aircraft design. Basics of navigation, radio navigation. W	KZ d secure syster KZ ational risks and rill be prepared i of students' Ma KZ ent. Internal an neration of staff KZ ding units. Equip al progress. KZ eight, balance, p	4 4 4 4 4 4 4 4 4 4 4 4 4 4
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