Study plan

Name of study plan: KOMBI navaz. mag. studium v 21-22 programu LA

Faculty/Institute/Others: Department: Branch of study guaranteed by the department: Welcome page Garantor of the study branch: Program of study: Logistics and Transport Processes Control Type of study: Follow-up master combined Required credits: 120 Elective courses credits: 0 Sum of credits in the plan: 120 Note on the plan:

Name of the block: Compulsory courses Minimal number of credits of the block: 103 The role of the block: Z

Code of the group: 1S K LA 21-22 P Name of the group: 1.sem.navaz.mag. KOMBI programu LA 21-22 povinné p edm ty Requirement credits in the group: In this group you have to gain 28 credits Requirement courses in the group: In this group you have to complete 9 courses Credits in the group: 28 Note on the group:

Note on the g	jioup.					
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
611LIP2	Linear Programming 2 Pavla Pecherková, Jozef Nagy Pavla Pecherková (Gar.)	Z,ZK	3	2P+1C+10E	8 Z	Z
611TER	Game Theory and Optimal Decision-Making Magdalena Hykšová Magdalena Hykšová (Gar.)	ZK	2	2P+0C+8E	8 Z	Z
617LSC	Logistics in Smart Cities Eliška Glaserová Tomáš Horák (Gar.)	Z,ZK	6	2P+2C+14E	8 Z	Z
617TZNK	Technology of Railway Transport Michal Drábek Vít Janoš (Gar.)	Z,ZK	5	12B	z	Z
617TZOK	Inventory, Replacement and Scheduling Theory <i>Dušan Teichmann Dušan Teichmann (Gar.)</i>	Z,ZK	4	10B	Z	Z
614GISS	Geographical Information Systems Zuzana Purkrábková, František Kekula	KZ	2	0P+2C+8E	8 Z	Z
617MADS	Management of Transport Systems Roman Št rba Roman Št rba (Gar.)	KZ	2	2P+0C+8E	8 Z	Z
617TSI	Technology of Road Transport Michal Drábek Michal Drábek (Gar.)	KZ	2	2P+0C+8E	8 Z	Z
615J2A1	Language - English 1 V ra Pastorková	Z	2	0P+2C+10E	8 Z	Z

Characteristics of the courses of this group of Study Plan: Code=1S K LA 21-22 P Name=1.sem.navaz.mag. KOMBI programu LA 21-22 povinné p edm ty

611LIP2	Linear Programming 2	Z,ZK	3					
Formulation of the task	of integer programming, branch and bound method of numerical solution, problems about knapsack, travelling salesman, sets	location of stores	and post boxes,					
tasks of scheduling, her	tasks of scheduling, heuristics, metaheuristics - genetic algorithms, ant colony optimization.							
611TER	Game Theory and Optimal Decision-Making	ZK	2					
Decision-making theory, utility theory. Explicit form games, backward induction. Normal form games. Antagonistic conflict, matrix games. Repeated games, evolutionary game theory.								
Cooperative games with	nout transferable payoffs. Cooperative games with transferable payoffs (imputation, core, Shapley value, nucleolus). Applicati	ons of game theo	ry above all in					
economics and transpo	rtation.							
617LSC	Logistics in Smart Cities	Z,ZK	6					
Development of cities in	time, city and region, mobility of city residents and movement of goods, sustainability as a concept, Smart Cities, city as a s	ystem and its con	ponents, quality					
of life, individual quality	of life, city "smartness" assessment, legislation in Smart Cities, Smart Cities transformation, last mile logistics, e-commerce, ne	w approaches in la	ast mile logistics,					
last mile logisitcs in citie	as and in regions.							
617TZNK	Technology of Railway Transport	Z,ZK	5					
Track line capacity assesment, model operational situation with a system running time between IPT-nodes, calculation of traction energy savings compared with infrastructure costs								
for designing of fleeting	for designing of fleeting crossing station, solving of capacity problem and blocking time in relation to train protection system, robustness of timetable, system concept of freight train							
paths, guidelines for cer	ntralised operational traffic control and management							

617TZOK Inventory, Replacement and Scheduling Theory	Z,ZK	4				
Inventory theory - introduction, static models, deterministic dynamic models, stochastic dynamic models Replacement theory - introduction, models	for replacement o	f items that				
deteriorate with time, models for replacement of items that fail completely Scheduling theory - introduction, single machine scheduling problems, para	eteriorate with time, models for replacement of items that fail completely Scheduling theory - introduction, single machine scheduling problems, parallel machine scheduling problems,					
flow shop scheduling problems and job shop scheduling problems						
614GISS Geographical Information Systems	KZ	2				
Construction of saving format of space-oriented information land-survey and cartography minimum basic tasks of spatial operations principles of term	ritorial identificatio	n				
617MADS Management of Transport Systems	KZ	2				
Functions, processes and systems of management in transport, organisational structures, strategy, social responsibility, soft skills.						
617TSI Technology of Road Transport	KZ	2				
Legislative, operational, technical, logistic and safety conditions of road transport, basic transport technologies, special transport, international agree	ments, requireme	ents on the				
parameters and specialization of transport, handling and loading/unloading means, maintenance, service and repairs of road vehicles, safety of road	transport and ch	oice of optimal				
transport unit.						
615J2A1 Language - English 1	Z	2				
Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising						
technical text content, structuring presentations and meeting minutes, elementary rhetorics of English and practical application, formal and technical	technical text content, structuring presentations and meeting minutes, elementary rhetorics of English and practical application, formal and technical registers and their use, language					
of management.						

Code of the group: 2S K LA 21-22 P

Name of the group: 2.sem.navaz.mag. KOMBI programu LA 21-22 povinné p edm ty Requirement credits in the group: In this group you have to gain 25 credits Requirement courses in the group: In this group you have to complete 8 courses Credits in the group: 25 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
611THRO	Queuing Theory Šárka Vorá ová Šárka Vorá ová (Gar.)	ZK	2	2P+0C+8E	B L	Z
617KMDK	Quantitative Methods in Transport Dušan Teichmann, Denisa Mocková Denisa Mocková (Gar.)	Z,ZK	7	14B	L	Z
617MID	Managerial Information Systems in Transport Václav Baroch Václav Baroch (Gar.)	Z,ZK	3	2P+1C+10E	B L	Z
617RKOP	Management of commercial projects in transport Alexandra Dvo á ková	Z,ZK	3	2P+1C+10E	B L	Z
614BIG	Big Data Ond ej Smíšek	KZ	2	0P+2C+8E	B L	Z
614TEL	Telecommunications Tomáš Zelinka Tomáš Zelinka (Gar.)	KZ	3	2P+1C+10E	B L	Z
617DOCH	Travel Behavior Milan K íž Milan K íž (Gar.)	KZ	3	3P+0C+10E	B L	Z
615JBA2	Language - English 2 V ra Pastorková, Jan Feit	Z	2	0P+2C+10E	B L	Z

Characteristics of the courses of this group of Study Plan: Code=2S K LA 21-22 P Name=2.sem.navaz.mag. KOMBI programu LA 21-22 povinné p edm ty

611THRO	Queuing Theory	ZK	2				
Discrete event process, d	lefinition, random distribution, and probability. Basic processes, process of revitalisation. Markov process, Markov models, Ke	ndall classificatio	n, model M/M/1,				
models M/M/n. Non-mark	wian models, model M/C/n, models G/G/n. Models with continuous flow. Service net, examples of Petri net. Computer simu	ulation.					
617KMDK	Quantitative Methods in Transport	Z,ZK	7				
The course focuses on th	e issue of the use of undirected graphs tree type, planar graphs and their coloring. Further distribution problems, facility loca	tion problems are	e formulated and				
solved such as models of	f integer linear programming. Besides the use of exact methods there are described simple and also more sofisticated heur	stics (metaheuris	tics) methods.				
617MID	Managerial Information Systems in Transport	Z,ZK	3				
IT and their use in buildin	g IS of modern transport company. New EU legislation on cyber security and data protection puts transport organizations in	front of new cha	llenges. The				
course focuses on the se	curity of IS and possible sources of danger. The practical part deals with the process of building a new IS from the idea throu	ugh the timetable	and the financial				
budget, the basic docume	ents for the possible assignment of the contract.						
617RKOP	Management of commercial projects in transport	Z,ZK	3				
Business project (custom	er, activities, output - quality, time, money), project surroundings, location of the project (area analysis, traffic flows, authorized	ation procedure)	, organizational				
structure of the project, s	sources of financing, customer-supplier relations, feasibility studies, sensitivity and multi-criteria analysis, financial and value	analysis, manag	ement of project				
changes.							
614BIG	Big Data	KZ	2				
Principle of MapReduce,	Basic Principles of Big Data Management, Comparison and Classification of NoSQL Databases, Key Database Value Databa	se, Column Datab	ases, Document				
Databases, Graph Datab	ases-Basic Principles, Graph Databases-Advanced Aspects, Indexing, Interpretation, Advanced Principles Big Data Manag	ement, NewSQL [Database, Cloud				
computing, Data warehou	uses and Big Data, Cloud computing, Data warehouses and Big Data, Other Big Data issues						
614TEL	Telecommunications	KZ	3				
Status quo and new trend	ds in telecommunications systems. economical and legal aspects of telecommunications networks design and telecommuni	cations services r	provissioning,				
identification and quantific	ation of hyererchical telecommunications networks and telecommunicatuon services performance based on addopted performar	ce parameters, te	ecommunication				
services typically applied	services typically applied within transport and specifically logistic solutions.						

617DOCH Travel Behavior KZ 3 Investigation of causal effects in travel behavior research (quasi-experimental and experimental approaches). Data collection (theory of measurement; design of research instrument and data collection). Analysis and interpretation of data (advanced regression models; issues of analysis and interpretation of results: effect size, practical vs. statistical significance). Analysis and interpretation of data (surveys, choice exp., panel. data). 615JBA2 Language - English 2 Z 2 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of English and practical application, formal and technical registers and their use, language of management.

Code of the group: 3S K LA 22-23 P

Name of the group: 3.sem.navaz.mag. KOMBI programu LA 22-23 povinné p edm ty Requirement credits in the group: In this group you have to gain 22 credits Requirement courses in the group: In this group you have to complete 6 courses Credits in the group: 22 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
611STS	Stochastic Systems Pavla Pecherková Evženie Uglickich (Gar.)	Z,ZK	4	2P+2C+14B	Z	Z
617DOPM	Transportation Planning and Modeling Milan K íž	Z,ZK	6	2P+2C+14B	Z	Z
617PPC	Carriage Processes Roman St rba Roman Št rba (Gar.)	ZK	3	2P+0C+10B	Z	Z
617RVIP	Public project management in transport Alexandra Dvo á ková Olga Mertlová (Gar.)	Z,ZK	5	2P+2C+14B	Z	Z
617AMAK	Aplication of marketing tools in transport industry Alexandra Dvo á ková	KZ	2	10B	Z	Z
615JBA3	Language - English 3 V ra Pastorková	Z	2	0P+2C+10B	Z	Z

Characteristics of the courses of this group of Study Plan: Code=3S K LA 22-23 P Name=3.sem.navaz.mag. KOMBI programu LA 22-23 povinné p edm tv

povinine p cam t)		
611STS	Stochastic Systems	Z,ZK	4
The subject deals with	the problems of mathematical modelling of dynamical systems, estimation od these models and their utilization for prediction.	The results are il	llustrated on
practical transportation	tasks. Mathematical theory roots from probability and mathematical statistics and they use the methods of the Bayesian prob	abilistic approach	۱.
617DOPM	Transportation Planning and Modeling	Z,ZK	6
Basic steps and tools	used within four step model (trip generation, trip distribution, mode choice and trip distribution). Mobility and availability in urba	n areas, land use	. New trends for
transportation planning	and modelling.		
617PPC	Carriage Processes	ZK	3
Domestic carriages, in	ternational carriages, nomenclature of goods, pricing, contracting, responsibility for damages.		
617RVIP	Public project management in transport	Z,ZK	5
Basic concepts of proje	ect management in the public sector, used procedures and standards of project management, organizational structure in project	t management in	the public sector,
project and pre-project	preparation in transport and transport infrastructure and their specifics, feasibility study and CBA, project evaluation.		
617AMAK	Aplication of marketing tools in transport industry	KZ	2
Strategic marketing pla	ans, Implementation of marketing campaigns, Branding and brand promotion, Multimedia presentations, Direct marketing and r	elated lead gener	ation campaigns
615JBA3	Language - English 3	Z	2
Grammatical structure	s and style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skil	ls, feedback skills	s, summarising
technical text content,	structuring presentations and meeting minutes, elementary rhetorics of English and practical application, formal and technical	registers and the	ir use, language
of management.			

Code of the group: 4S K LA 22-23 P

Name of the group: 4.sem.navaz.mag. KOMBI programu LA 22-23 povinný p edm t Requirement credits in the group: In this group you have to gain 2 credits Requirement courses in the group: In this group you have to complete 1 course Credits in the group: 2 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
615JBA4	Language - English 4 V ra Pastorková, Jan Feit	ZK	2	0P+2C+10B	L	Z

Characteristics of the courses of this group of Study Plan: Code=4S K LA 22-23 P Name=4.sem.navaz.mag. KOMBI programu LA 22-23 povinný p edm t

615JBA4

A4 Language - English 4

Grammatical structures and style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of English and practical application, formal and technical registers and their use, language of management.

7K

2

Code of the group: DP N LA K 21-22 Name of the group: Diplomová práce nav.mag.programu LA komb.(od) 21/22 Requirement credits in the group: In this group you have to gain 18 credits Requirement courses in the group: In this group you have to complete 1 course Credits in the group: 18

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
611XNDM	Master Thesis for study programme LA	Z	18	0P+20C+70B	L	Z
612XNDM	Master Thesis for study programme LA	Z	18	0P+20C+70B	L	Z
614XNDM	Master Thesis for study programme LA	Z	18	0P+20C+70B	L	Z
615XNDM	Master Thesis for study programme LA	Z	18	0P+20C+70B	L	Z
616XNDM	Master Thesis for study programme LA	Z	18	0P+20C+70B	L	Z
617XNDM	Master Thesis for study programme LA Tomáš Horák, Dušan Teichmann, Roman Št rba, Václav Baroch, Daniel Pilát, Ji í Pospíšil	Z	18	0P+20C+70B	L	Z
618XNDM	Master Thesis for study programme LA	Z	18	0P+20C+70B	5 L	Z
620XNDM	Master Thesis for study programme LA	Z	18	0P+20C+70B	L	Z
621XNDM	Master Thesis for study programme LA	Z	18	0P+20C+70B	L	Z
622XNDM	Master Thesis for study programme LA	Z	18	0P+20C+70B	L	Z
623XNDM	Master Thesis for study programme LA	Z	18	0P+20C+70B	L	Z

Characteristics of the courses of this group of Study Plan: Code=DP N LA K 21-22 Name=Diplomová práce nav.mag.programu LA komb.(od) 21/22

Master Thesis for study programme LA	Z	18
Master Thesis for study programme LA	Z	18
Master Thesis for study programme LA	Z	18
Master Thesis for study programme LA	Z	18
Master Thesis for study programme LA	Z	18
Master Thesis for study programme LA	Z	18
Master Thesis for study programme LA	Z	18
Master Thesis for study programme LA	Z	18
Master Thesis for study programme LA	Z	18
Master Thesis for study programme LA	Z	18
Master Thesis for study programme LA	Z	18
	Master Thesis for study programme LA Master Thesis for study programme LA	Master Thesis for study programme LAZMaster Thesis for study programme LAZ

Code of the group: SDP N LA K 21-22

Name of the group: Seminá k dip.práci nav.mag.programu LA komb.(od) 21/22 Requirement credits in the group: In this group you have to gain 8 credits Requirement courses in the group: In this group you have to complete 1 course Credits in the group: 8

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.) 611XN4K Ζ 8B L 8 Ζ **Seminar for Diploma Thesis** 612XN4K Ζ 8 8B L 7 **Seminar for Diploma Thesis** 7 614XN4K 8 8B L 7 Seminar for Diploma Thesis 615XN4K Ζ L 8 8B Seminar for Diploma Thesis Ζ 616XN4K Ζ 8 8B L Seminar for Diploma Thesis Ζ Seminar for Diploma Thesis 617XN4K Ζ 8 8B L Ζ Tomáš Horák, Daniel Pilát

618XN4K	Seminar for Diploma Thesis	Z	8	8B	L	Z
620XN4K	Seminar for Diploma Thesis	Z	8	8B	L	Z
621XN4K	Seminar for Diploma Thesis	Z	8	8B	L	Z
622XN4K	Seminar for Diploma Thesis	Z	8	8B	L	Z
623XN4K	Seminar for Diploma Thesis [¨]	Z	8	8B	L	Z

Characteristics of the courses of this group of Study Plan: Code=SDP N LA K 21-22 Name=Seminá k dip.práci nav.mag.programu LA komb.(od) 21/22

611XN4K	Seminar for Diploma Thesis	Z	8
612XN4K	Seminar for Diploma Thesis	Z	8
614XN4K	Seminar for Diploma Thesis	Z	8
615XN4K	Seminar for Diploma Thesis	Z	8
616XN4K	Seminar for Diploma Thesis	Z	8
617XN4K	Seminar for Diploma Thesis	Z	8
618XN4K	Seminar for Diploma Thesis	Z	8
620XN4K	Seminar for Diploma Thesis	Z	8
621XN4K	Seminar for Diploma Thesis	Z	8
622XN4K	Seminar for Diploma Thesis	Z	8
623XN4K	Seminar for Diploma Thesis"	Z	8

Name of the block: Compulsory elective courses Minimal number of credits of the block: 9 The role of the block: PV

Code of the group: PVP NAV K LA 21-22 Name of the group: PVP nav.komb.LA 21-22 (program LA, nikoliv obor LA) Requirement credits in the group: In this group you have to gain 9 credits Requirement courses in the group: In this group you have to complete 3 courses Credits in the group: 9 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.) 617W2AM **Application of Marketing Tools in Transportation** K7 3 8B ΡV 621W2CR ΚZ 3 8B L CRM ΡV 617W2FM ΚZ 3 8B Ζ ΡV **Financing in Urban Mass Transportation** Aviation Company Financial Management Ζ 621W2FM ΚZ 3 8B ΡV Radoslav Zozu ák 615W2HS K7 3 8B L ΡV **Road Transport History** 614W2KI ΚZ 3 8B L **Capital Investment in Transportation and Telecommunications** PV/ 621W2LS ΚZ 3 L 8B Air Traffic Services ΡV Ζ 615W2MS ΚZ 3 8B ΡV Sociology for Managers 621W2MS Ζ Aerospace Engineering Simulation and Modelling ΚZ 3 8B ΡV **CNS Systems Modelling** Ζ 621W2MC ΚZ 3 8B ΡV Stanislav Pleninger Health Protection in Transportation and EU 615W2OZ ΚZ 3 8B Ζ ΡV Petr Musil **Food in Transportation** 3 L 615W2PT ΚZ 8B ΡV Petr Musil 621W2PP ΚZ 3 8B L Law and Operation in Air Transport ΡV 621W2PL ΚZ 3 8B Ζ **Operational Aspects of Aerodromes** ΡV 617W2RZ Ζ ΚZ 3 8B ΡV **Control of Transport Processes** 615W2SR K7 3 8B 7 **Stylistics and Rhetorics** ΡV 617W2SK ΚZ 3 L **Urban and Regional Rail Transit Systems** 8B ΡV ΚZ 3 615W2TS 8B L ΡV **Technician and Contemporary Society**

Characteristics of the courses of this group of Study Plan: Code=PVP NAV K LA 21-22 Name=PVP nav.komb.LA 21-22 (program LA, nikoliv obor LA)

617W2AM	Application of Marketing Tools in Transportation	KZ	3	
Application of marketing principles in transport issues, marketing tools suitable for transport, case studies of the use of marketing in the sphere of public passenger transport.				

	1/7	•
621W2CR CRM	KZ	3
Introduction to CRM. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the h		ie Sleep &
Vigilance. Information Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership & amp; Team Beha		-
617W2FM Financing in Urban Mass Transportation	KZ	3
UMT history and development in Prague and other cities in the world. Building and operation of public tram, bus, and trolleybus networks. Undergro	0	
UMT types. UMT development in small towns. Particularities of investment and operation financing of individual UMT types. Historic and present mo	dels of UMT finan	cing. Transport
inspection and blind passengers. Tourism & amp; UMT. UMT typology & amp; choice of optimum financing.		
621W2FM Aviation Company Financial Management	KZ	3
Theories of corporate finance - financial statements, budget, forecast. Financial policy of the company. Financial resources - long-term financial resources	ources, depreciatio	on, retained
earnings, shares, bonds, loans, leasing, capital. Financial and economic analysis of the company - structure and content.		
615W2HS Road Transport History	KZ	3
Roads and road traffic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of ro		
1st part of 20th century. Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of	f road travelling in	modern period.
History of road intercections, bridges and traffic control, development of road signs.		
614W2KI Capital Investment in Transportation and Telecommunications	KZ	3
Financial market, investment desicion making - long term goals and investment strategies, long term financing		
621W2LS Air Traffic Services	KZ	3
Airspace structure in Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR,	APP a ACC control	ol. Procedural
and radar control. Incidents caused or partially caused by ATS. History of ATS and Czech airspace.		
615W2MS Sociology for Managers	KZ	3
Sociological approach to a corporation. Corporation and its organization. Corporation and its running - human role and communication. Corporation	, its culture and so	cial system.
Human's work position in free market economy. Corporate directorship, work groups, adaptation, strife, different roles and positions in corporation.		
621W2MS Aerospace Engineering Simulation and Modelling	KZ	3
The course is designed as a set of exemplary tasks and problems based on practical aviation issues. The university degree mathematic skills and s	oftware application	ns usage will be
necessary for successful figuring out. Both simple tasks, where students create own model themselves (e.g. in Matlab), and more complicated problems	ems where profess	sional developed
tools will be applied.		
621W2MC CNS Systems Modelling	KZ	3
615W2OZ Health Protection in Transportation and EU	KZ	3
Health protection in transportation in CR in the past and present. Conditions before 1989 and after, current legislature, future prospects. Harmonisa	tion of legislation v	vith other EU
members. Fundamental principles of health protection and support in selected EU countries.		
615W2PT Food in Transportation	KZ	3
The nutrition policy. Interaction transportation and foodstuffs. The health risks. Hygienic safeguard. The practical examples from the Czech Republic	1	d. The issues of
dining cars, work trains and other railroad equipment. Legislation.		
621W2PP Law and Operation in Air Transport	KZ	3
Development of aviation law. International conventions on civil aviation. International organisations and including of the Czech Republic in these org	1	-
aviation. Execution of state administration and state supervision in matters of civil aviation, in accordance with Act No. 49/1997 Col. Facilitation. Res		
passengers, luggage and cargo. The safe transport of dangerous goods.	-	
621W2PL Operational Aspects of Aerodromes	KZ	3
Operational aspects of aerodromes. Location of aerodrome and orientation of runways. Requirements for apron. Capacity of airports runways and to	1	-
conditions. Firefighting units. Protection against unlawful interference. Local transport connection. Environmental protection.		
617W2RZ Control of Transport Processes	KZ	3
Theoretical bases, transport system, decomposition, factors influencing control, quality diagnosis, methods of control, systems for decision making		
telematics.		0,
615W2SR Stylistics and Rhetorics	KZ	3
Basic skills of oral and written expression as a means of human communication. Basic information about speech, articulation, oral and written langu	1	-
organs, voice training. Language semantics, language syntactic and the pragmatic aspect. Creative thought and its oral and written expression. Practi		-
617W2SK Urban and Regional Rail Transit Systems	KZ	3
Factors influencing transport demand, modal-split, traffic flows distribution on public transit network. Line network optimization and configuration. Tir		
accenting integrated periodic timetable. Rolling stock circulation, staff and crew services optimization and their order to rosters. Framework legislation,		
of public transport. Marketing.		
615W2TS Technician and Contemporary Society	KZ	3
Why to take off a hat in a room and open a door for a lady, are there simple solutions, science vs belief, do we need to know or is it enough to turn of	1	
Internet and in newspapers, what are the sights for, interest in public affairs - a hangover from the past?	.,	

Name of the block: Jazyky

Minimal number of credits of the block: 8 The role of the block: J

Code of the group: JZ-N-LA K (1.-4.SEM) Name of the group: Jazyky navaz.mag. KOMBI studia (1.- 4.sem.) programu LA Requirement credits in the group: In this group you have to gain 8 credits Requirement courses in the group: In this group you have to complete 4 courses Credits in the group: 8 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
615J2F1	Language - French 1	Z	2	0P+2C+10E	3 Z	J
615J2I1	Language - Italian 1	Z	2	0P+2C+10E	3 Z	J
615J2N1	Language - German 1 René Skalický	Z	2	0P+2C+10E	3 Z	J
615J2R1	Language - Russian 1 Vilma Gottwaldová	Z	2	0P+2C+10E	8 Z	J
615J2S1	Language - Spanish 1	Z	2	0P+2C+10E	B Z	J
615JBF2	Language - French 2	Z	2	0P+2C+10E	3 L	J
615JBI2	Language - Italian 2	Z	2	0P+2C+10E	3 L	J
615JBN2	Language - German 2 René Skalický, Sv tlana Petrová	Z	2	0P+2C+10E	3 L	J
615JBR2	Language - Russian 2 Vilma Gottwaldová, Marie Michlová	Z	2	0P+2C+10E	3 L	J
615JBS2	Language - Spanish 2	Z	2	0P+2C+10E	B L	J
615JBF3	Language - French 3	Z	2	0P+2C+10E	3 Z	J
615JBI3	Language - Italian 3	Z	2	0P+2C+10E	3 Z	J
615JBN3	Language - German 3 René Skalický	Z	2	0P+2C+10E	8 Z	J
615JBR3	Language - Russian 3 Vilma Gottwaldová	Z	2	0P+2C+10E	8 Z	J
615JBS3	Language - Spanish 3	Z	2	0P+2C+10E	3 Z	J
615JBF4	Language - French 4	ZK	2	0P+2C+10E	B L	J
615JBI4	Language - Italian 4	ZK	2	0P+2C+10E	B L	J
615JBN4	Language - German 4 René Skalický, Sv tlana Petrová	ZK	2	0P+2C+10E	3 L	J
615JBR4	Language - Russian 4 Vilma Gottwaldová, Marie Michlová	ZK	2	0P+2C+10E	B L	J
615JBS4	Language - Spanish 4	ZK	2	0P+2C+10E	B L	J
Characteristics of the I.sem.) programu LA	e courses of this group of Study Plan: Code=JZ-N-LA K (14	I.SEM) Name=Ja	azyky na	vaz.mag.	KOMBI stu	ıdia (1
	nguage - French 1				Z	2
	d Style. Selection of conversation topics relating to transportation sciences. Develop turing presentations and meeting minutes, elementary rhetorics of foreign languag					

615J2I1 Language - Italian 1

Ζ 2 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management. 615J2N1 Language - German 1 Ζ 2 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management. 615J2R1 Language - Russian 1 Ζ 2 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management. 615J2S1 Language - Spanish 1 Ζ 2 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use,

language of management.

615JBF2 Language - French 2

Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management 615JBI2 Language - Italian 2 Ζ 2 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising

Ζ

2

technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management. 615JBN2 Language - German 2 Ζ 2 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use,

language of management.

615JBR2 Language - F	Russian 2	Z	2
Grammatical Structures and Style. Select	tion of conversation topics relating to transportation sciences. Developing perceptive and communicative sk	ills, feedback skill	s, summarising
technical text content, structuring present	tations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and	technical register	rs and their use,
language of management.			
615JBS2 Language - S	Spanish 2	Z	2
Grammatical Structures and Style. Select	tion of conversation topics relating to transportation sciences. Developing perceptive and communicative sk	ills, feedback skill	s, summarising
technical text content, structuring present	tations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and	I technical register	rs and their use,
language of management.			
615JBF3 Language - F	French 3	Z	2
	rersation and professional topics based on the language level and study focus at the Faculty. Improvement	of language struct	ure knowledge
and perceptive and communicative skills,	vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	rk with (profession	nal) text and its
features. Practice of oral and written pres	entation.		
615JBI3 Language - I	talian 3	Z	2
	versation and professional topics based on the language level and study focus at the Faculty. Improvement (ure knowledge
-	vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo		-
features. Practice of oral and written pres		, i	,
615JBN3 Language - 0	German 3	Z	2
	versation and professional topics based on the language level and study focus at the Faculty. Improvement	1	
-	vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo		•
features. Practice of oral and written pres			
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-	resation and professional topics based on the language level and study focus at the Faculty. Improvement of a study focus at the Faculty improvement of a		-
features. Practice of oral and written pres	vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	irk with (profession	
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615JBS3 Language - S		Z	2
	rersation and professional topics based on the language level and study focus at the Faculty. Improvement	0 0	•
	vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	rk with (protession	hal) text and its
features. Practice of oral and written pres			
615JBF4 Language - F		ZK	2
-	rersation and professional topics based on the language level and study focus at the Faculty. Improvement		-
	vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	rk with (profession	nal) text and its
features. Practice of oral and written pres	entation.		
615JBI4 Language - I	talian 4	ZK	2
Grammar and stylistics. Selection of conv	versation and professional topics based on the language level and study focus at the Faculty. Improvement	of language struct	ure knowledge
and perceptive and communicative skills,	vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	rk with (profession	nal) text and its
features. Practice of oral and written pres	entation.		
615JBN4 Language - 0	German 4	ZK	2
	rersation and professional topics based on the language level and study focus at the Faculty. Improvement	of language struct	ure knowledge
and perceptive and communicative skills,	vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	rk with (profession	nal) text and its
features. Practice of oral and written pres			
615JBR4 Language - F	Russian 4	ZK	2
	versation and professional topics based on the language level and study focus at the Faculty. Improvement	I	_
	vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	0 0	•
features. Practice of oral and written pres			,
615JBS4 Language - S		ZK	2
	versation and professional topics based on the language level and study focus at the Faculty. Improvement	1	_
	vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	0 0	•
features. Practice of oral and written pres			

List of courses of this pass:

Code	Name of the course Completion Creation						
611LIP2	Linear Programming 2	Z,ZK	3				
Formulation of the	ask of integer programming, branch and bound method of numerical solution, problems about knapsack, travelling salesman, sets, loc	ation of stores and	post boxes,				
	tasks of scheduling, heuristics, metaheuristics - genetic algorithms, ant colony optimization.						
611STS	Stochastic Systems	Z,ZK	4				
The subject deal	s with the problems of mathematical modelling of dynamical systems, estimation od these models and their utilization for prediction.	The results are illus	strated on				
practical tra	insportation tasks. Mathematical theory roots from probability and mathematical statistics and they use the methods of the Bayesian	probabilistic appro	ach.				
611TER	Game Theory and Optimal Decision-Making	ZK	2				
Decision-making the	neory, utility theory. Explicit form games, backward induction. Normal form games. Antagonistic conflict, matrix games. Repeated gam	ies, evolutionary ga	ame theory.				
Cooperative game	es without transferable payoffs. Cooperative games with transferable payoffs (imputation, core, Shapley value, nucleolus). Application	s of game theory a	bove all in				
	economics and transportation.						
611THRO	Queuing Theory	ZK	2				
Discrete event proc	ess, definition, random distribution, and probability. Basic processes, process of revitalisation. Markov process, Markov models, Kend	all classification, m	odel M/M/1				
mode	Is M/M/n. Non-markovian models, model M/C/n, models G/G/n. Models with continuous flow. Service net, examples of Petri net. Com	puter simulation.					
611XN4K	Seminar for Diploma Thesis	7	8				

E12XNDM Master Thesis for study programme LA Z 1 614BIG Big Data KZ 2 Principle of MapRotoce, Baic Principles of Big Data Management, Comparison and Classification of NeSQL Entabases, Key Databases, Column Databases, Data Management, Comparison and Classification of NeSQL Entabases, Key Databases, Column Databases, Data Management, Comparison and Elg Data, Citad comparing, Data warehouses and Big Data, Other Big Data issues KZ 2 614GISS Geographical Information Systems KZ 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 <		Master Thesis for study programme LA	Z	18
614BIG Big Data Enciption Enciption Big Data Enciption Enciption <td>612XNDM</td> <td></td> <td>Z</td> <td>-</td>	612XNDM		Z	-
Principle of MapReisture, Basic Principles of Big Data Management, Companion and Classification of NoSQL pathabases, Kay Photphase Values, Calum Databases, Calum Database, Calum Databases, Calum Database, Calum Databases, Calum Databases,				18
Databases, Graph Databases-Assic Prinoples, Graph Databases-Advanced Appects, Indexing, Interpretation, Advanced Prinoples (B) Data Maragement, NewSQL Database, Clavance, Computing, Data warehouses and Big Data, Chore Big Data issues 61401SS Geographical Information Systems KZ Z 6147EL Tele Advances and Big Data, Chore Big Data issues KZ Z 6147EL Tele Advances KZ Z	1			
computing. Data wavehouses and Big Data. Cloud computing. Data wavehouses and Big Data. Other Big Data issues 614CHSS Geographical Information Systems KZ 2 Construction of saving format of space oriented information land-survey and cartography minimum basic tasks of apalial operations principles of tentrorial issemilications and uncertained in telecommunications networks and telecommunications networks. 614W2KI Capital Investment in Transportation and Specification (size) solutions. KZ 3 614XNDM Master Thesis for study programme LA Z 16 614XNDM Master Thesis for study programme LA Z 16 614XNDM Master Thesis for study programme LA Z 16 614XNDM Master Thesis for study programme LA Z 16 614XNDM Master Thesis for study programme LA Z 16 614XNDM Master Thesis for study programme LA Z 12 2 2 2 2 2 2 2 2 2 2 2 </td <td></td> <td></td> <td></td> <td></td>				
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deartification and quantification ad hyperechical telecommunications and use performance bardow addopted performance parameters, telecommunications and expecting hypotagies solutions. 614/XV2KI Capital Investment in Transportation and Telecommunications KZ 3 614/XV2KI Capital Investment decision making-long tem goals and investment strategies, long term financing KZ 3 614/XV2KI Capital Investment decision making-long tem goals and investment strategies, long term financing Z 86 614/XVDM Master Thesis for study programme LA Z 10 615/2L1 Language - English at Z 2 2 2 2 3 615/2L1 Language - English at practical application, formal and technical registers and their use, long dmanagement. Z 2 2 2 2 3 <td< td=""><td>-</td><td></td><td>1</td><td>-</td></td<>	-		1	-
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echnical text content, structuring presentations and meeting minutes, elementary rheorics of English and practical application, formal and technical registers and their use, language intractical structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summaris elechnical text content, structuring presentations and meeting minutes, elementary rheorics of foreign language and practical application, formal and technical registers and their use, language of management. 615.J211 Language - French 1 Z 2 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summaris echnical text content, structuring presentations and meeting minutes, elementary rheorics of foreign language and practical application, formal and technical registers and their use, language of management. 615.J2N1 Language - German 1 Z 2 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summaris echnical text content, structuring presentations and meeting minutes, elementary rheorics of foreign language and practical application, formal and technical registers and their language of management. 615.J2R1 Language - Russian 1 Z Z 2 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summaris achincial text content, structuring presentati			-	2
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617DOCH	Travel Behavior	KZ	3	
	usal effects in travel behavior research (quasi-experimental and experimental approaches). Data collection (theory of measurement;	1 1	instrument	
and data collection). Analysis and interpretation of data (advanced regression models; issues of analysis and interpretation of results: effect size, practical vs. statistical significance).				
	Analysis and interpr. of data (surveys, choice exp., panel. data).			
617DOPM	Transportation Planning and Modeling	Z,ZK	6	
Basic steps and too	ols used within four step model (trip generation, trip distribution, mode choice and trip distribution). Mobility and availability in urban a	reas, land use. New	w trends for	
	transportation planning and modelling.			
617KMDK	Quantitative Methods in Transport	Z,ZK	7	
	s on the issue of the use of undirected graphs tree type, planar graphs and their coloring. Further distribution problems, facility location			
	odels of integer linear programming. Besides the use of exact methods there are described simple and also more sofisticated heuristic			
617LSC	Logistics in Smart Cities	Z,ZK	6	
· ·	es in time, city and region, mobility of city residents and movement of goods, sustainability as a concept, Smart Cities, city as a syste ality of life, city "smartness" assessment, legislation in Smart Cities, Smart Cities transformation, last mile logistics, e-commerce, new a			
or file, individual qua	last mile logistics in cities and in regions.	proaches in last m	lie logistics,	
617MADS	Management of Transport Systems	KZ	2	
	Functions, processes and systems of management in transport, organisational structures, strategy, social responsibility, soft s	1 1	2	
617MID	Managerial Information Systems in Transport	Z,ZK	3	
-	n building IS of modern transport company. New EU legislation on cyber security and data protection puts transport organizations in			
	he security of IS and possible sources of danger. The practical part deals with the process of building a new IS from the idea through		-	
	budget, the basic documents for the possible assignment of the contract.			
617PPC	Carriage Processes	ZK	3	
	Domestic carriages, international carriages, nomenclature of goods, pricing, contracting, responsibility for damages.	1		
617RKOP	Management of commercial projects in transport	Z,ZK	3	
Business project (customer, activities, output - quality, time, money), project surroundings, location of the project (area analysis, traffic flows, authorizati	ion procedure), org	anizational	
structure of the proj	ect, sources of financing, customer-supplier relations, feasibility studies, sensitivity and multi-criteria analysis, financial and value an	alysis, managemer	nt of project	
	changes.	,		
617RVIP	Public project management in transport	Z,ZK	5	
Basic concepts of p	roject management in the public sector, used procedures and standards of project management, organizational structure in project ma		ublic sector,	
	project and pre-project preparation in transport and transport infrastructure and their specifics, feasibility study and CBA, project ev			
617TSI	Technology of Road Transport	KZ	2	
	ational, technical, logistic and safety conditions of road transport, basic transport technologies, special transport, international agree	-		
parameters and sp	ecialization of transport, handling and loading/unloading means, maintenance, service and repairs of road vehicles, safety of road transport	ansport and choice	of optimal	
04777144	transport unit.	774		
617TZNK	Technology of Railway Transport	Z,ZK	5	
	assessment, model operational situation with a system running time between IPT-nodes, calculation of traction energy savings comp			
	eting crossing station, solving of capacity problem and blocking time in relation to train protection system, robustness of timetable, s paths, guidelines for centralised operational traffic control and management	ystern concept of it	eigni tiain	
617TZOK	Inventory, Replacement and Scheduling Theory	Z,ZK	4	
	- introduction, static models, deterministic dynamic models, stochastic dynamic models Replacement theory - introduction, models for		-	
	e, models for replacement of items that fail completely Scheduling theory - introduction, single machine scheduling problems, parallel			
	flow shop scheduling problems and job shop scheduling problems		51	
617W2AM	Application of Marketing Tools in Transportation	KZ	3	
Application of n	narketing principles in transport issues, marketing tools suitable for transport, case studies of the use of marketing in the sphere of p	ublic passenger tra	nsport.	
617W2FM	Financing in Urban Mass Transportation	KZ	3	
UMT history and d	evelopment in Prague and other cities in the world. Building and operation of public tram, bus, and trolleybus networks. Underground	building and opera	tion. Other	
	levelopment in small towns. Particularities of investment and operation financing of individual UMT types. Historic and present model			
	inspection and blind passengers. Tourism & amp; UMT. UMT typology & amp; choice of optimum financing.			
617W2RZ	Control of Transport Processes	KZ	3	
Theoretical bases,	transport system, decomposition, factors influencing control, quality diagnosis, methods of control, systems for decision making sup	port, risk of decisio	on making,	
	telematics.			
617W2SK	Urban and Regional Rail Transit Systems	KZ	3	
	transport demand, modal-split, traffic flows distribution on public transit network. Line network optimization and configuration. Timeta	0 0		
accenting integrated	d periodic timetable. Rolling stock circulation, staff and crew services optimization and their order to rosters. Framework legislation, non	-parrier effects and	preterence	
CATVNIAK	of public transport. Marketing.	7	0	
617XN4K	Seminar for Diploma Thesis	Z	8	
617XNDM	Master Thesis for study programme LA	Z	18	
618XN4K	Seminar for Diploma Thesis	Z	8	
618XNDM	Master Thesis for study programme LA	Z	18	
620XN4K	Seminar for Diploma Thesis	Z	8	
620XNDM	Master Thesis for study programme LA	Z	18	
621W2CR	CRM	KZ	3	
	M. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the human			
-	nformation Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership & amp; Team E			
621W2FM	Aviation Company Financial Management	KZ	3	
Theories of corpo	orate finance - financial statements, budget, forecast. Financial policy of the company. Financial resources - long-term financial resources	-	retained	
	earnings, shares, bonds, loans, leasing, capital. Financial and economic analysis of the company - structure and content.			
621W2LS	Air Traffic Services	KZ	3	
Airspace structure	e in Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, AF	'P a ACC control. P	rocedural	
	and radar control. Incidents caused or partially caused by ATS. History of ATS and Czech airspace.			
621W2MC	CNS Systems Modelling	KZ	3	

621W2MS	Aerospace Engineering Simulation and Modelling	KZ	3
The course is desig	ned as a set of exemplary tasks and problems based on practical aviation issues. The university degree mathematic skills and softw	are applications u	sage will be
necessary for succe	essful figuring out. Both simple tasks, where students create own model themselves (e.g. in Matlab), and more complicated problems	where professiona	al developed
	tools will be applied.		
621W2PL	Operational Aspects of Aerodromes	KZ	3
Operational aspec	ts of aerodromes. Location of aerodrome and orientation of runways. Requirements for apron. Capacity of airports runways and term	inals. Operation u	nder winter
	conditions. Firefighting units. Protection against unlawful interference. Local transport connection. Environmental protection	1.	
621W2PP	Law and Operation in Air Transport	KZ	3
Development of avi	ation law. International conventions on civil aviation. International organisations and including of the Czech Republic in these organis	ations. EU legislat	ion and civil
aviation. Execution	on of state administration and state supervision in matters of civil aviation, in accordance with Act No. 49/1997 Col. Facilitation. Resp	onsibilities of air c	arriers for
	passengers, luggage and cargo. The safe transport of dangerous goods.		
621XN4K	Seminar for Diploma Thesis	Z	8
621XNDM	Master Thesis for study programme LA	Z	18
622XN4K	Seminar for Diploma Thesis	Z	8
622XNDM	Master Thesis for study programme LA	Z	18
623XN4K	Seminar for Diploma Thesis"	Z	8
623XNDM	Master Thesis for study programme LA	Z	18

For updated information see <u>http://bilakniha.cvut.cz/en/FF.html</u> Generated: day 2024-05-17, time 06:41.