Study plan

Name of study plan: KOMBI navaz. mag. studium v 23-24 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: 70 Elective courses credits: 50 Sum of credits in the plan: 120 Note on the plan:

Name of the block: Compulsory courses Minimal number of credits of the block: 53 The role of the block: Z

Code of the group: 1S K LA 23-24 P Name of the group: 1.sem.navaz.mag. KOMBI programu LA 23-24 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	•					
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+10B	Z	Z
611TER	Game Theory and Optimal Decision-Making Magdalena Hykšová Magdalena Hykšová (Gar.)	ZK	2	2P+0C+8B	Z	Z
617LSC	Logistics in Smart Cities Eliška Glaserová Tomáš Horák (Gar.)	Z,ZK	6	2P+2C+14B	Z	Z
617TZNK	Technology of Railway Transport Michal Drábek Vít Janoš (Gar.)	Z,ZK	5	12B	Z	Z
617TZOK	Inventory, Replacement and Scheduling Theory Dušan Teichmann Dušan Teichmann (Gar.)	Z,ZK	4	10B	Z	Z
614GISS	Geographical Information Systems Zuzana Purkrábková, František Kekula	KZ	2	0P+2C+8B	Z	Z
617MADS	Management of Transport Systems Roman Št rba Roman Št rba (Gar.)	KZ	2	2P+0C+8B	Z	Z
617TSI	Technology of Road Transport Michal Drábek Michal Drábek (Gar.)	KZ	2	2P+0C+8B	Z	Z
615J2A1	Language - English 1 V ra Pastorková	Z	2	0P+2C+10B	Z	Z

Characteristics of the courses of this group of Study Plan: Code=1S K LA 23-24 P Name=1.sem.navaz.mag. KOMBI programu LA 23-24 povinné p edm ty

611LIP2	Linear Programming 2	Z,ZK	3				
Formulation of the task of	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, heu	asks 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 g	ames, evolutiona	ry 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 transpor	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 si	ystem and its com	ponents, quality				
of life, individual quality of	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	is 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 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	aths, guidelines for centralised 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 of items that					
deteriorate 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 terr	itorial 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	I 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 registers and their use, language					
of management.					

Code of the group: 2S K LA 23-24 P

Name of the group: 2.sem.navaz.mag. KOMBI programu LA 23-24 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+8B	6 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+10B	L	Z
617RKOP	Management of commercial projects in transport Alexandra Dvo á ková	Z,ZK	3	2P+1C+10B	L	Z
614BIG	Big Data Ond ej Smíšek	KZ	2	0P+2C+8B	L	Z
614TEL	Telecommunications Tomáš Zelinka Tomáš Zelinka (Gar.)	KZ	3	2P+1C+10B	L	Z
617DOCH	Travel Behavior Milan K íž Milan K íž (Gar.)	KZ	3	3P+0C+10B	L	Z
615JBA2	Language - English 2 V ra Pastorková, Jan Feit	Z	2	0P+2C+10B	L	Z

Characteristics of the courses of this group of Study Plan: Code=2S K LA 23-24 P Name=2.sem.navaz.mag. KOMBI programu LA 23-24 povinné p edm ty

611THRO Queuing Theory	ZK	2				
Discrete event process, definition, random distribution, and probability. Basic processes, process of revitalisation. Ma	rkov process, Markov models, Kendall classificati	on, model M/M/1,				
models M/M/n. Non-markovian models, model M/C/n, models G/G/n. Models with continuous flow. Service net, examples of Petri net. Computer simulation.						
617KMDK Quantitative Methods in Transport	Z,ZK	7				
The course focuses on the issue of the use of undirected graphs tree type, planar graphs and their coloring. Further distribution problems, facility location problems are formulated and						
solved such as models of integer linear programming. Besides the use of exact methods there are described simple	and also more sofisticated heuristics (metaheuri	stics) methods.				
617MID Managerial Information Systems in Transport	Z,ZK	3				
IT and their use in building IS of modern transport company. New EU legislation on cyber security and data protection	on puts transport organizations in front of new ch	allenges. The				
course focuses on the security of IS and possible sources of danger. The practical part deals with the process of buil	ding a new IS from the idea through the timetable	and the financial				
budget, the basic documents for the possible assignment of the contract.						
617RKOP Management of commercial projects in transport	Z,ZK	3				
Business project (customer, activities, output - quality, time, money), project surroundings, location of the project (ar	ea analysis, traffic flows, authorization procedure), organizational				
structure of the project , sources of financing, customer-supplier relations, feasibility studies, sensitivity and multi-crit	teria analysis, financial and value analysis, mana	gement of project				
changes.						
614BIG Big Data	KZ	2				
Principle of MapReduce, Basic Principles of Big Data Management, Comparison and Classification of NoSQL Databas	ses, Key Database Value Database, Column Data	bases, Document				
Databases, Graph Databases-Basic Principles, Graph Databases-Advanced Aspects, Indexing, Interpretation, Advanced Principles Big Data Management, NewSQL Database, Cloud						
computing, Data warehouses and Big Data, Cloud computing, Data warehouses and Big Data, Other Big Data issues						
614TEL Telecommunications	KZ	3				
Status quo and new trends in telecommunications systems. economical and legal aspects of telecommunications networks design and telecommunications services provissioning,						
identification and quantification of hyererchical telecommunications networks and telecommunicatuon services performan	nce based on addopted performance parameters, tr	elecommunication				
services typically applied within transport and specifically logistic solutions.	services typically applied within transport and specifically logistic solutions					

617DOCH	Travel Behavior				KZ	3
Investigation of cau	sal effects in travel behavior research (quasi-experimental and experimental approaches). I	Data collection (theor	y of measure	ement; desi	gn of research	instrument
,	. Analysis and interpretation of data (advanced regression models; issues of analysis and ir	nterpretation of result	s: effect size	, practical v	vs. statistical sig	nificance)
	r. of data (surveys, choice exp., panel. data).					
615JBA2	Language - English 2				Z	2
	ures and Style. Selection of conversation topics relating to transportation sciences. Develop	e 1				0
of management.	nt, structuring presentations and meeting minutes, elementary rhetorics of English and prac	ctical application, forr	nal and tech	nical registe	ers and their us	e, languag
or management.						
Name of the	block: Compulsory elective courses					
	nber of credits of the block: 9					
The role of t	he block: PV					
Code of the	group: PVP NAV K LA 23-24					
Name of the	group: PVP nav.komb.LA 23-24 (program LA)					
	at credits in the group: In this group you have to gain 9) credits				
•						
•	nt courses in the group: In this group you have to com	piele 3 cours	ses			
Credits in th	e group: 9					
Note on the	group:					
	Name of the course / Name of the group of courses					
Code	(in case of groups of courses the list of codes of their	Completion	Crodite	Scono	Somostor	Polo
Code	(in case of groups of courses the list of codes of their members)	Completion	Credits	Scope	Semester	Role
Code		Completion	Credits	Scope	Semester	Role

Code	members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
617W2AM	Application of Marketing Tools in Transportation	KZ	3	8B	L	PV
621W2CR		KZ	3	8B	L	PV
617W2FM	Financing in Urban Mass Transportation	KZ	3	8B	Z	PV
621W2FM	Aviation Company Financial Management Radoslav Zozu ák	КZ	3	8B	Z	PV
615W2HS	Road Transport History	KZ	3	8B	L	PV
614W2KI	Capital Investment in Transportation and Telecommunications	KZ	3	8B	L	PV
615W2MS	Sociology for Managers	KZ	3	8B	Z	PV
621W2MC	CNS Systems Modelling Stanislav Pleninger	KZ	3	8B	Z	PV
615W2OZ	Health Protection in Transportation and EU Petr Musil	KZ	3	8B	Z	PV
615W2PT	Food in Transportation Petr Musil	KZ	3	8B	L	PV
621W2PP	Law and Operation in Air Transport	KZ	3	8B	L	PV
615W2SR	Stylistics and Rhetorics	KZ	3	8B	Z	PV
615W2TS	Technician and Contemporary Society	KZ	3	8B	L	PV

Characteristics of the courses of this group of Study Plan: Code=PVP NAV K LA 23-24 Name=PVP nav.komb.LA 23-24 (program 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 pu	iblic passenger tr	ansport.			
621W2CR	CRM	KZ	3			
Introduction to CRM. Ar	Introduction to CRM. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the human body. Fatigue Sleep & amp;					
Vigilance. Information Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership & amp; Team Behaviour. Automation.						
617W2FM	Financing in Urban Mass Transportation	KZ	3			
UMT history and develo	pment in Prague and other cities in the world. Building and operation of public tram, bus, and trolleybus networks. Undergrou	ind building and c	peration. Other			
UMT types. UMT develo	ppment 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 pas	ssengers. Tourism & UMT. UMT typology & choice of optimum financing.					
621W2FM	Aviation Company Financial Management	KZ	3			
Theories of corporate fin	nance - financial statements, budget, forecast. Financial policy of the company. Financial resources - long-term financial reso	urces, depreciatio	on, retained			
earnings, shares, bonds	s, loans, leasing, capital. Financial and economic analysis of the company - structure and content.					
615W2HS	Road Transport History	KZ	3			
Roads and road traffic in	n the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road	ad transport deve	lopment during			
1st part of 20th century.	Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of	road travelling in	modern period.			
History of road intercect	ions, bridges and traffic control, development of road signs.					
614W2KI	Capital Investment in Transportation and Telecommunications	KZ	3			
Financial market, invest	ment desicion making - long term goals and investment strategies, long term financing					
615W2MS	Sociology for Managers	KZ	3			
Sociological approach te	Sociological approach to a corporation. Corporation and its organization. Corporation and its running - human role and communication. Corporation, its culture and social system.					
Human's work position	n free market economy. Corporate directorship, work groups, adaptation, strife, different roles and positions in corporation.					
621W2MC	CNS Systems Modelling	KZ	3			

615W2OZ	Health Protection in Transportation and EU	KZ	3			
Health protection in tran	sportation in CR in the past and present. Conditions before 1989 and after, current legislature, future prospects. Harmonisat	ion of legislation v	vith other EU			
members. Fundamental	members. Fundamental principles of health protection and support in selected EU countries.					
615W2PT	Food in Transportation	KZ	3			
The nutrition policy. Inte	raction transportation and foodstuffs. The health risks. Hygienic safeguard. The practical examples from the Czech Republic	, and from the worl	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 organisations	anisations. EU leg	islation and civil			
aviation. Execution of st	ate administration and state supervision in matters of civil aviation, in accordance with Act No. 49/1997 Col. Facilitation. Resp	ponsibilities of air	carriers for			
passengers, luggage ar	ad cargo. The safe transport of dangerous goods.					
615W2SR	Stylistics and Rhetorics	KZ	3			
Basic skills of oral and v	vritten expression as a means of human communication. Basic information about speech, articulation, oral and written langu	age. Teaching to s	speak well-vocal			
organs, voice training. La	anguage semantics, language syntactic and the pragmatic aspect. Creative thought and its oral and written expression. Practic	ce - cultivating the	skills of speech.			
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 on a PC, it must be true - it is on the						
Internet and in newspap	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:

Note on the						
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+10B	Z	J
615J2I1	Language - Italian 1	Z	2	0P+2C+10B	Z	J
615J2N1	Language - German 1 René Skalický	Z	2	0P+2C+10B	Z	J
615J2R1	Language - Russian 1 Vilma Gottwaldová	Z	2	0P+2C+10B	Z	J
615J2S1	Language - Spanish 1	Z	2	0P+2C+10B	Z	J
615JBF2	Language - French 2	Z	2	0P+2C+10B	L	J
615JBI2	Language - Italian 2	Z	2	0P+2C+10B	L	J
615JBN2	Language - German 2 René Skalický, Sv tlana Petrová	Z	2	0P+2C+10B	L	J
615JBR2	Language - Russian 2 Vilma Gottwaldová, Marie Michlová	Z	2	0P+2C+10B	L	J
615JBS2	Language - Spanish 2	Z	2	0P+2C+10B	L	J
615JBF3	Language - French 3	Z	2	0P+2C+10B	Z	J
615JBI3	Language - Italian 3	Z	2	0P+2C+10B	Z	J
615JBN3	Language - German 3 René Skalický	Z	2	0P+2C+10B	Z	J
615JBR3	Language - Russian 3 Vilma Gottwaldová	Z	2	0P+2C+10B	Z	J
615JBS3	Language - Spanish 3	Z	2	0P+2C+10B	Z	J
615JBF4	Language - French 4	ZK	2	0P+2C+10B	L	J
615JBI4	Language - Italian 4	ZK	2	0P+2C+10B	L	J
615JBN4	Language - German 4 René Skalický, Sv tlana Petrová	ZK	2	0P+2C+10B	L	J
615JBR4	Language - Russian 4 Vilma Gottwaldová, Marie Michlová	ZK	2	0P+2C+10B	L	J
615JBS4	Language - Spanish 4	ZK	2	0P+2C+10B	L	J

Characteristics of the courses of this group of Study Plan: Code=JZ-N-LA K (1.-4.SEM) Name=Jazyky navaz.mag. KOMBI studia (1.-4.sem.) programu LA

 615J2F1
 Language - French 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 foreign language and practical application, formal and technical registers and their use, language of management.

	Z	2
615J2I1 Language - Italian 1	1 1	
Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative s		-
technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal an	d technical register	rs and their use,
language of management.		
615J2N1 Language - German 1	Z	2
Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative s	1 1	1
technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal an		
	u lechinicai register	s and their use,
language of management.		r
615J2R1 Language - Russian 1	Z	2
Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative s	kills, feedback skill	s, summarising
technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal an	d technical register	rs and their use,
language of management.	0	
	7	
615J2S1 Language - Spanish 1	Z	2
Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative s	kills, feedback skill	s, summarising
technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal an	d technical register	rs and their use,
language of management.		
615JBF2 Language - French 2	Z	2
Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative s	1 – 1	
		-
technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal an	a technical register	's and their use,
language of management.		
615JBI2 Language - Italian 2	Z	2
Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative s	kills, feedback skill	s, summarising
technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal an		-
language of management.		,
	7	
615JBN2 Language - German 2	Z	2
Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative s	kills, feedback skill	s, summarising
technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal an	d technical register	rs and their use,
language of management.		
615JBR2 Language - Russian 2	Z	2
Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative s	1 – 1	
		-
technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal an	a tecnnical register	is and their use,
language of management.		
615JBS2 Language - Spanish 2	Z	2
Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative s	kills, feedback skill	s, summarising
technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal an	d technical register	rs and their use.
language of management.		,
		0
615JBF3 Language - French 3	Z	2
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 communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. We	ork with (professior	nal) text and its
features. Practice of oral and written presentation.		
615JBI3 Language - Italian 3	Z	
Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement		2
	1	2 ture knowledge
and paragetive and communicative skills, vessbulary development. Pagis stylistic forms, Presentation of own knowledge in and written form W	of language struct	ture knowledge
and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. We	of language struct	ture knowledge
features. Practice of oral and written presentation.	of language struct	ture knowledge nal) text and its
	of language struct	ture knowledge
features. Practice of oral and written presentation.	of language struct ork with (profession	ture knowledge nal) text and its
features. Practice of oral and written presentation. 615JBN3 Language - German 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	ture knowledge nal) text and its 2 ture knowledge
features. Practice of oral and written presentation. 615JBN3 Language - German 3 Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. We converse the faculty of the faculty of the faculty of the faculty of the faculty.	of language struct	ture knowledge nal) text and its 2 ture knowledge
features. Practice of oral and written presentation. 615JBN3 Language - German 3 Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. We features. Practice of oral and written presentation.	of language struct ork with (profession Z of language struct ork with (profession	ture knowledge nal) text and its 2 ture knowledge nal) text and its
features. Practice of oral and written presentation. 615JBN3 Language - German 3 Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Writeatures. Practice of oral and written presentation. 615JBR3 Language - Russian 3	of language struct ork with (profession Z of language struct ork with (profession Z	ture knowledge nal) text and its 2 ture knowledge nal) text and its 2
features. Practice of oral and written presentation. 615JBN3 Language - German 3 Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Writeatures. Practice of oral and written presentation. 615JBR3 Language - Russian 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 ork with (profession Z of language struct ork with (profession Z of language struct	ture knowledge nal) text and its 2 ture knowledge nal) text and its 2 ture knowledge
features. Practice of oral and written presentation. 615JBN3 Language - German 3 Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Writeatures. Practice of oral and written presentation. 615JBR3 Language - Russian 3	of language struct ork with (profession Z of language struct ork with (profession Z of language struct	ture knowledge nal) text and its 2 ture knowledge nal) text and its 2 ture knowledge
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615JBS4	Language - Spanish 4	ZK	2		
Grammar and stylistics	Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of	of language struct	ure knowledge		
and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its					
features. Practice of ora	al and written presentation.				

List of courses of this pass:

Code	Name of the course	Completion	Credits
611LIP2	Linear Programming 2	Z,ZK	3
Formulation of the t	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.		
611TER	Game Theory and Optimal Decision-Making	ZK	2
-	neory, utility theory. Explicit form games, backward induction. Normal form games. Antagonistic conflict, matrix games. Repeated gam The without transferable payoffs. Cooperative games with transferable payoffs (imputation, core, Shapley value, nucleolus). Application		-
	economics and transportation.	s of game theory a	
611THRO	Queuing Theory	ZK	2
	ess, definition, random distribution, and probability. Basic processes, process of revitalisation. Markov process, Markov models, Kenda		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.	
614BIG	Big Data	KZ	2
	duce, Basic Principles of Big Data Management, Comparison and Classification of NoSQL Databases, Key Database Value Database,		
Databases, Graph	Databases-Basic Principles, Graph Databases-Advanced Aspects, Indexing, Interpretation, Advanced Principles Big Data Management	ent, NewSQL Data	base, Cloud
6140188	computing, Data warehouses and Big Data, Cloud computing, Data warehouses and Big Data, Other Big Data issues	K7	2
614GISS	Geographical Information Systems n of saving format of space-oriented information land-survey and cartography minimum basic tasks of spatial operations principles of	KZ	2 ation
614TEL	Telecommunications	KZ	3
-	ew trends in telecommunications systems. economical and legal aspects of telecommunications networks design and telecommunications		-
	antification of hyererchical telecommunications networks and telecommunicatuon services performance based on addopted performance	-	-
	services typically applied within transport and specifically logistic solutions.		
614W2KI	Capital Investment in Transportation and Telecommunications	KZ	3
	Financial market, investment desicion making - long term goals and investment strategies, long term financing		
615J2A1	Language - English 1	Z	2
	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,		-
	nt, structuring presentations and meeting minutes, elementary rhetorics of English and practical application, formal and technical reg of management.	JISTERS AND THEIR US	e, language
615J2F1	Language - French 1	Z	2
	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	-	
technical text conte	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec	chnical registers ar	nd their use,
	language of management.		1
615J2I1	Language - Italian 1	Z	2
	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,		-
	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec language of management.	chilical registers al	iu trieli use,
615J2N1	Language - German 1	Z	2
	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	-	
technical text conte	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec	chnical registers ar	nd their use,
	language of management.		
615J2R1	Language - Russian 1	Z	2
	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,		-
	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec language of management.	chinical registers ai	iu ineli use,
615J2S1	Language - Spanish 1	Z	2
	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	1	
technical text conte	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec	chnical registers ar	nd their use,
	language of management.		1
615JBA2	Language - English 2	Z	2
	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,		-
technicar text conte	nt, structuring presentations and meeting minutes, elementary rhetorics of English and practical application, formal and technical reg of management.	JISTELS AND THEIR US	e, language
615JBF2	Language - French 2	Z	2
	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,		
	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec		•
	language of management.		
615JBF3	Language - French 3	Z	2
-	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		-
and perceptive and	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.	with (protessional)	iexi and its
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615JBF4	Languaga Franch 4	ZK	1 2
Grammar and styli	Language - French 4 stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		2 e knowledge
-	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.		
615JBI2	Language - Italian 2	Z	2
	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,		-
echnical text conte	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec language of management.	hnical registers a	and their use
615JBI3	Language - Italian 3	Z	2
	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la	0 0	•
and perceptive and	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.	with (professiona	I) text and its
615JBI4	Language - Italian 4	ZK	2
	stics. 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.		-
615JBN2	Language - German 2	Z	2
1	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	feedback skills,	summarisinę
echnical text conte	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec language of management.	hnical registers a	and their use
615JBN3	Language - German 3	Z	2
1	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la	anguage structur	e knowledge
and perceptive and	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.	with (professiona	I) text and its
615JBN4	Language - German 4	ZK	2
	stics. 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.	0 0	•
615JBR2	Language - Russian 2	Z	2
1	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	_	-
	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec language of management.		-
615JBR3	Language - Russian 3	Z	2
1	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la	_	
and perceptive and	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.	with (professiona	-
and perceptive and 615JBR4		vith (professiona	-
615JBR4	features. Practice of oral and written presentation. Language - Russian 4 stics. 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 w	ZK anguage structur	l) text and its
615JBR4 Grammar and styli and perceptive and	features. Practice of oral and written presentation. Language - Russian 4 stics. 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 w features. Practice of oral and written presentation.	ZK anguage structur with (professiona	I) text and its 2 e knowledge I) text and its
615JBR4 Grammar and styli and perceptive and 615JBS2	features. Practice of oral and written presentation. Language - Russian 4 stics. 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. Language - Spanish 2	ZK anguage structur with (professiona Z	I) text and its 2 e knowledge I) text and its 2
615JBR4 Grammar and styli and perceptive and 615JBS2 Grammatical Struc	features. Practice of oral and written presentation. Language - Russian 4 stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lad communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w features. Practice of oral and written presentation. Language - Spanish 2 tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tector	ZK anguage structur with (professiona Z feedback skills,	I) text and its 2 e knowledge I) text and its 2 summarising
615JBR4 Grammar and styli and perceptive and 615JBS2 Grammatical Struc echnical text conte	features. Practice of oral and written presentation. Language - Russian 4 stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lad 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. Language - Spanish 2 tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and teclanguage of management.	ZK anguage structur with (professiona Z feedback skills, hnical registers a	I) text and its 2 e knowledge I) text and its summarising and their use
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615JBR4 Grammar and styli and perceptive and 615JBS2 Grammatical Struc echnical text conte 615JBS3 Grammar and styli and perceptive and 615JBS4 Grammar and styli and perceptive and 615JBS4	features. Practice of oral and written presentation. Language - Russian 4 stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lad communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work we features. Practice of oral and written presentation. Language - Spanish 2 tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tech Language - Spanish 3 stics. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tech Language - Spanish 3 stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lad communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work we features. Practice of oral and written presentation. Language - Spanish 4 stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lad communicative skills, vocabulary development. Basic stylistic forms. Presentation. Language - Spanish 4 Image - Spanish	ZK anguage structur with (professiona Z feedback skills, hnical registers a Z anguage structur with (professiona ZK anguage structur with (professiona KZ	I) text and its 2 e knowledge I) text and its 2 summarising and their use 2 e knowledge I) text and its 2 e knowledge I) text and its 3
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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;	design of researd	ch instrument
and data collectior	n). Analysis and interpretation of data (advanced regression models; issues of analysis and interpretation of results: effect size, practi	cal vs. statistical	significance).
	Analysis and interpr. of data (surveys, choice exp., panel. data).		
617KMDK	Quantitative Methods in Transport	Z,ZK	7
The course focuse	s on the issue of the use of undirected graphs tree type, planar graphs and their coloring. Further distribution problems, facility location	n problems are fo	ormulated and
solved such as m	odels of integer linear programming. Besides the use of exact methods there are described simple and also more sofisticated heurist	ics (metaheuristi	cs) methods.
617LSC	Logistics in Smart Cities	Z,ZK	6
Development of cit	es in time, city and region, mobility of city residents and movement of goods, sustainability as a concept, Smart Cities, city as a syste	m and its compo	nents, quality
f life, individual qu	ality of life, city "smartness" assessment, legislation in Smart Cities, Smart Cities transformation, last mile logistics, e-commerce, new a	pproaches in last	mile logistics
	last mile logisitcs in cities and in regions.		
617MADS	Management of Transport Systems	KZ	2
	Functions, processes and systems of management in transport, organisational structures, strategy, social responsibility, soft s	kills.	
617MID	Managerial Information Systems in Transport	Z,ZK	3
IT and their use	n building IS of modern transport company. New EU legislation on cyber security and data protection puts transport organizations in		lenges. The
ourse focuses on	the security of IS and possible sources of danger. The practical part deals with the process of building a new IS from the idea through	the timetable an	d the financia
	budget, the basic documents for the possible assignment of the contract.		
617RKOP	Management of commercial projects in transport	Z,ZK	3
	customer, activities, output - quality, time, money), project surroundings, location of the project (area analysis, traffic flows, authorizat		-
	ject, sources of financing, customer-supplier relations, feasibility studies, sensitivity and multi-criteria analysis, financial and value ar		-
·	changes.	<i>,</i> , , , , , , , , , , , , , , , , , ,	. ,
617TSI	Technology of Road Transport	KZ	2
	rational, technical, logistic and safety conditions of road transport, basic transport technologies, special transport, international agree		1
	pecialization of transport, handling and loading/unloading means, maintenance, service and repairs of road vehicles, safety of road tr	-	
	transport unit.		00 01 optimu
617TZNK	Technology of Railway Transport	Z,ZK	5
	assesment, model operational situation with a system running time between IPT-nodes, calculation of traction energy savings comp		-
	eeting crossing station, solving of capacity problem and blocking time in relation to train protection system, robustness of timetable, s		
tor designing of h	paths, guidelines for centralised operational traffic control and management	ystern concept o	i neigint tiain
617TZOK		Z,ZK	4
	 Inventory, Replacement and Scheduling Theory - introduction, static models, deterministic dynamic models, stochastic dynamic models Replacement theory - introduction, models feedback 	· ·	1
	e, models for replacement of items that fail completely Scheduling theory - introduction, single machine scheduling problems, parallel		
	e, models for replacement of items that fair completely Scheduling theory - introduction, single machine scheduling problems, parallel flow shop scheduling problems and job shop scheduling problems	machine schedu	ing problems
		1/7	
617W2AM	Application of Marketing Tools in Transportation	KZ	3
	marketing principles in transport issues, marketing tools suitable for transport, case studies of the use of marketing in the sphere of p		
617W2FM	Financing in Urban Mass Transportation	KZ	3
	levelopment in Prague and other cities in the world. Building and operation of public tram, bus, and trolleybus networks. Underground		
UMT types. UMT	development in small towns. Particularities of investment and operation financing of individual UMT types. Historic and present model	s of UMT financi	ng. Transpor
	inspection and blind passengers. Tourism & UMT. UMT typology & choice of optimum financing.		
621W2CR	CRM	KZ	3
ntroduction to CR	M. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the hum	an body. Fatigue	Sleep &
Vigilance.	nformation Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership & amp; Team E	Behaviour. Autom	ation.
621W2FM	Aviation Company Financial Management	KZ	3
	orate finance - financial statements, budget, forecast. Financial policy of the company. Financial resources - long-term financial resou		n, retained
	earnings, shares, bonds, loans, leasing, capital. Financial and economic analysis of the company - structure and content.		
621W2MC	CNS Systems Modelling	KZ	3
621W2PP	Law and Operation in Air Transport	KZ	3
	iation law. International conventions on civil aviation. International organisations and including of the Czech Republic in these organis	1	-
	on of state administration and state supervision in matters of civil aviation, in accordance with Act No. 49/1997 Col. Facilitation. Resp	-	
		onoionnico ui all	
	passengers, luggage and cargo. The safe transport of dangerous goods.		

For updated information see <u>http://bilakniha.cvut.cz/en/FF.html</u> Generated: day 2024-05-17, time 13:06.