Recomended pass through the study plan

Name of the pass: Master Part-Time LA from 2024/25

Faculty/Institute/Others:

Department:

Pass through the study plan: Master Part-Time LA from 2024/25 Branch of study guranteed by the department: Welcome page

Guarantor of the study branch:

Program of study: Logistics and Transport Processes Control

Type of study: Follow-up master combined

Note on the pass:

Coding of roles of courses and groups of courses:

P - compulsory courses of the program, PO - compulsory courses of the branch, Z - compulsory courses, S - compulsory elective courses, PV - compulsory elective courses, F - elective specialized courses, V - elective courses, T - physical training courses

Coding of ways of completion of courses (KZ/Z/ZK) and coding of semesters (Z/L):

KZ - graded assesment, Z - assesment, ZK - examination, L - summer semester, Z - winter semester

Number of semester: 1

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
14GISS	Geographical Information Systems Vit Fábera, František Kekula, Tomáš Janata, Zuzana Purkrábková Tomáš Janata Tomáš Janata (Gar.)	KZ	2	0P+2C+8B	Z	Z
15J2A1	Language - English 1 Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerová	Z	2	0P+2C+10B	Z	Z
11LIP2	Linear Programming 2 Pavla Pecherková, Ivan Nagy, Karel Je men Pavla Pecherková Ivan Nagy (Gar.)	Z,ZK	3	2P+1C+10B	Z	Z
17LSC	Logistics in Smart Cities Tomáš Horák Tomáš Horák (Gar.)	Z,ZK	6	2P+2C+14B	Z	Z
17MADS	Management of Transport Systems Roman Št rba Roman Št rba (Gar.)	KZ	2	2P+0C+8B	Z	Z
17TSI	Technology of Road Transport Rudolf Vávra, Daniel Drnec, Vít Janoš, Michal Drábek Michal Drábek (Gar.)	KZ	2	2P+0C+8B	Z	Z
17TZNK	Technology of Railway Transport Rudolf Vávra, Vít Janoš, Michal Drábek Vít Janoš (Gar.)	Z,ZK	5	12B	Z	Z
11TER	Game Theory and Optimal Decision-Making Magdalena Hykšová Magdalena Hykšová (Gar.)	ZK	2	2P+0C+8B	Z	Z
11TZOK	Inventory, Replacement and Scheduling Theory Dušan Teichmann Dušan Teichmann	Z,ZK	4	10B	Z	Z
		Min. cours.				
17 ND 1 A 00/04	Jazyky Mgr. prezen ní LA od 2020/21	4	Min/Max			
JZ-NP-LA-20/21	15J2F1,15J2I1, (see the list of groups below)	Max. cours.	8/8			J
		4				

Number of semester: 2

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
14BIG	Big Data Jana Kaliková, Jan Kr ál Jana Kaliková Jana Kaliková (Gar.)	KZ	2	0P+2C+8B	L	Z
17DOCH	Travel Behavior Vít Janoš, Milan K íž Vít Janoš (Gar.)	KZ	3	3P+0C+10B	L	Z
15JBA2	Language - English 2 Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerová,	Z	2	0P+2C+10B	L	Z
11KMDK	Quantitative Methods in Transport Dušan Teichmann, Denisa Mocková Denisa Mocková (Gar.)	Z,ZK	7	14B	L	Z
17MID	Managerial Information Systems in Transport Václav Baroch Václav Baroch (Gar.)	Z,ZK	3	2P+1C+10B	L	Z

17RKOP	Management of commercial projects in transport Petra Skolilová, Alexandra Dvo á ková Petra Skolilová Petra Skolilová (Gar.)	Z,ZK	3	2P+1C+10B	L	Z
14TEL	Telecommunications Tomáš Zelinka, Radek Holý, Zden k Lokaj, Martin Šrotý Tomáš Zelinka Tomáš Zelinka (Gar.)	KZ	3	2P+1C+10B	L	Z
11THRO	Queuing Theory Šárka Vorá ová Šárka Vorá ová Šárka Vorá ová (Gar.)	ZK	2	2P+0C+8B	L	Z
JZ-NP-LA-20/21	Jazyky Mgr. prezen ní LA od 2020/21 15J2F1,15J2I1, (see the list of groups below)	Min. cours. 4 Max. cours. 4	Min/Max 8/8			J
Y2-NK-LA-24/25	PVP-B Mgr. kombinovaný LA od 2024/25 17W2AM,21W2CR, (see the list of groups below)	Min. cours. 3 Max. cours. 3	Min/Max 6/6			PV

Number of semester: 3

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
17AMAK	Application of Marketing Tools in Transport Industry	KZ	2	10B	Z	Z
17DOPM	Transportation Planning and Modeling Milan K íž	Z,ZK	6	2P+2C	Z	Z
15JBA3	Language - English 3 Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerová,	Z	2	0P+2C+10B	Z	Z
17PPC	Carriage Processes Roman Št rba Roman Št rba (Gar.)	ZK	3	2P+0C	Z	Z
17RVIP	Public Project Management in Transport Alexandra Dvo á ková, Olga Mertlová, Daniel Pilát Olga Mertlová (Gar.)	Z,ZK	5	2P+2C+14B	Z	Z
11STS	Stochastic Systems Pavla Pecherková, Šárka Vorá ová, Evženie Uglickich, Natálie Blahitka, Michal Matowicki Pavla Pecherková Šárka Vorá ová (Gar.)	Z,ZK	4	2P+2C+14B	Z	Z
JZ-NP-LA-20/21	Jazyky Mgr. prezen ní LA od 2020/21 15J2F1,15J2I1, (see the list of groups below)	Min. cours. 4 Max. cours. 4	Min/Max 8/8			J
Y2-NK-LA-24/25	PVP-B Mgr. kombinovaný LA od 2024/25 17W2AM,21W2CR, (see the list of groups below)	Min. cours. 3 Max. cours. 3	Min/Max 6/6			PV

Number of semester: 4

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
15JBA4	Language - English 4 Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerová,	ZK	2	0P+2C+10B	L	Z
XD-NK-LA-25/26	DP Mgr. kombinovaná LA od 2025/26 11XNDM,12XNDM, (see the list of groups below)	Min. cours. 1 Max. cours. 1	Min/Max 18/18			Z
XS-NK-LA-25/26	Seminá k DP Mgr. kombinovaná LA od 2025/26 11XN4K, 12XN4K, (see the list of groups below)	Min. cours. 1 Max. cours. 1	Min/Max 8/8			Z
JZ-NP-LA-20/21	Jazyky Mgr. prezen ní LA od 2020/21 15J2F1,15J2I1, (see the list of groups below)	Min. cours.	Min/Max 8/8			J

Max. co	urs.		
4			

List of groups of courses of this pass with the complete content of members of individual groups

Kód		Name of the group ogroup (for specificat	of courses ar	nd codes of members of this or below the list of courses)	Com	pletion	Credit	Scope	Semester	Role
					Min.	cours.				
						4	Min/Ma	x		
JZ-NP-	LA-20/21	Jazyky N	lgr. prezen ı	ní LA od 2020/21	Max	cours.	8/8			J
					IVIGA.		0,0			
			T . =			4	l .			
15J2F1	Language		15J2I1	Language - Italian 1		15J2N1		.anguage - G		
15J2R1	0 0	- Russian 1	15J2S1	Language - Spanish 1		15JBF2		anguage - Fi		
15JBI2	Language		15JBN2	Language - German 2		15JBR2		anguage - R		
15JBS2		- Spanish 2	15JBF3	Language - French 3		15JBI3		anguage - Ita		
15JBN3	1 0 0	- German 3	15JBR3	Language - Russian 3		15JBS3		anguage - S		
15JBF4	Language		15JBI4	Language - Italian 4		15JBN4	L	.anguage - G	erman 4	
15JBR4	Language	- Russian 4	15JBS4	Language - Spanish 4					T T	
					Min.	cours.				
						1	Min/Ma	x		
XD-NK-	·LA-25/26	DP Mgr.	kombinovan	á LA od 2025/26	Max	oouro.	18/18			Z
					wax.	cours.	10/10			
						1				
11XNDM	Master The	esis for study programm	12XNDM	Master Thesis for study programm		14XNDM	i r	Naster Thesis	for study prog	ramm
15XNDM	Master The	esis for study programm	16XNDM	Master Thesis for study programm		17XNDM	1 1	Master Thesis	for study prog	ramm
18XNDM	Master The	esis for study programm	20XNDM	Master Thesis for study programm		21XNDM	1 1	Aaster Thesis	for study prog	ramm
22XNDM	Master The	esis for study programm								
	•				Min.	cours.				
						1	Min/Ma	•		
XS-NK-	LA-25/26	Seminá k DP	Mar. kombir	novaná LA od 2025/26		1	Min/Ma	x		z
XS-NK-	LA-25/26	Seminá k DP	Mgr. kombir	novaná LA od 2025/26	Max.	1 cours.	Min/Ma 8/8	x		Z
XS-NK-	·LA-25/26	Seminá k DP	Mgr. kombir	novaná LA od 2025/26	Max.	•		x		Z
		Seminá k DP	Mgr. kombir	novaná LA od 2025/26 Seminar for Diploma Thesis	Max.	cours.	8/8		iploma Thesis	Z
11XN4K	Seminar fo				Max.	cours.	8/8	Seminar for D	iploma Thesis	Z
11XN4K 15XN4K	Seminar fo	r Diploma Thesis	12XN4K	Seminar for Diploma Thesis	Max.	cours. 1 14XN4K	8/8	Seminar for D	•	z
11XN4K 15XN4K 18XN4K 16XN4K	Seminar for Seminar for Seminar for	r Diploma Thesis r Diploma Thesis r Diploma Thesis	12XN4K 22XN4K	Seminar for Diploma Thesis Seminar for Diploma Thesis	Max.	cours. 1 14XN4K 17XN4K	8/8	Seminar for D	iploma Thesis	z
11XN4K 15XN4K 18XN4K	Seminar for Seminar for Seminar for	r Diploma Thesis r Diploma Thesis	12XN4K 22XN4K	Seminar for Diploma Thesis Seminar for Diploma Thesis		1 14XN4K 17XN4K 21XN4K	8/8	Seminar for D	iploma Thesis	z
11XN4K 15XN4K 18XN4K	Seminar for Seminar for Seminar for	r Diploma Thesis r Diploma Thesis r Diploma Thesis	12XN4K 22XN4K	Seminar for Diploma Thesis Seminar for Diploma Thesis		cours. 1 14XN4K 17XN4K 21XN4K	8/8	Seminar for D Seminar for D Seminar for D	iploma Thesis	Z
11XN4K 15XN4K 18XN4K 16XN4K	Seminar fo Seminar fo Seminar fo	r Diploma Thesis r Diploma Thesis r Diploma Thesis r Diploma Thesis	12XN4K 22XN4K 20XN4K	Seminar for Diploma Thesis Seminar for Diploma Thesis Seminar for Diploma Thesis		cours. 1 14XN4K 17XN4K 21XN4K	8/8	Seminar for D Seminar for D Seminar for D	iploma Thesis	
11XN4K 15XN4K 18XN4K 16XN4K	Seminar for Seminar for Seminar for	r Diploma Thesis r Diploma Thesis r Diploma Thesis r Diploma Thesis	12XN4K 22XN4K 20XN4K	Seminar for Diploma Thesis Seminar for Diploma Thesis	Min.	cours. 1 14XN4K 17XN4K 21XN4K	8/8	Seminar for D Seminar for D Seminar for D	iploma Thesis	Z
11XN4K 15XN4K 18XN4K 16XN4K	Seminar fo Seminar fo Seminar fo	r Diploma Thesis r Diploma Thesis r Diploma Thesis r Diploma Thesis	12XN4K 22XN4K 20XN4K	Seminar for Diploma Thesis Seminar for Diploma Thesis Seminar for Diploma Thesis	Min.	cours. 1 14XN4K 17XN4K 21XN4K cours. 3 cours.	8/8	Seminar for D Seminar for D Seminar for D	iploma Thesis	
11XN4K 15XN4K 18XN4K 18XN4K 16XN4K	Seminar for Semina	r Diploma Thesis PVP-B Mg	12XN4K 22XN4K 20XN4K	Seminar for Diploma Thesis Seminar for Diploma Thesis Seminar for Diploma Thesis Seminar for Diploma Thesis	Min.	cours. 1 14XN4K 17XN4K 21XN4K cours. 3 cours.	8/8 \$ \$ \$ Min/Ma 6/6	Seminar for D Seminar for D Seminar for D	iploma Thesis iploma Thesis	PV
11XN4K 15XN4K 18XN4K 16XN4K Y2-NK-	Seminar for Semina	r Diploma Thesis PVP-B Mg	12XN4K 22XN4K 20XN4K 20XN4K	Seminar for Diploma Thesis Seminar for Diploma Thesis Seminar for Diploma Thesis Aný LA od 2024/25 CRM	Min.	cours. 1 14XN4K 17XN4K 21XN4K cours. 3 cours. 3	8/8 \$ \$ \$ Min/Ma 6/6	Seminar for D Seminar for D X X	iploma Thesis iploma Thesis iploma Thesis	PV
11XN4K 15XN4K 18XN4K 16XN4K Y2-NK- 17W2AM 21W2FM	Seminar for Seminar for Seminar for Seminar for Seminar for Seminar for Application Aviation Co.	r Diploma Thesis PVP-B Mg	12XN4K 22XN4K 20XN4K 20XN4K r. kombinova 21W2CR 15W2HS	Seminar for Diploma Thesis Seminar for Diploma Thesis Seminar for Diploma Thesis Seminar for Diploma Thesis aný LA od 2024/25 CRM Road Transport History	Min.	cours. 1 14XN4K 17XN4K 21XN4K 21XN4K cours. 3 cours. 3 17W2FM 14W2KI	8/8 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Seminar for D Seminar for D X X Financing in L Capital Invest	iploma Thesis iploma Thesis iploma Thesis Jrban Mass Tra ment in Transpo	PV nspor orta
11XN4K 15XN4K 18XN4K 16XN4K	Seminar for Seminar for Seminar for Seminar for Seminar for Seminar for Application Aviation Constitution Sociology	r Diploma Thesis PVP-B Mg	12XN4K 22XN4K 20XN4K 20XN4K	Seminar for Diploma Thesis Seminar for Diploma Thesis Seminar for Diploma Thesis Aný LA od 2024/25 CRM	Min.	cours. 1 14XN4K 17XN4K 21XN4K cours. 3 cours. 3	8/8 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Seminar for D Seminar for D X X Financing in L Capital Invest	iploma Thesis iploma Thesis iploma Thesis Jrban Mass Tra ment in Transpotion in Transpotion	PV nspor orta

List of courses of this pass:

Code	Name of the course	Completion	Credits					
11KMDK	Quantitative Methods in Transport	Z,ZK	7					
The course focuses	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 mo	odels of integer linear programming. Besides the use of exact methods there are described simple and also more sofisticated heurist	ics (metaheuristics) methods.					
11LIP2	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.							
11STS	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					
1								

ne subject deals with the problems of mathematical modelling of dynamical systems, estimation od these models and their utilization for prediction. The results are illustrated of practical transportation tasks. Mathematical theory roots from probabilisty and mathematical statistics and they use the methods of the Bayesian probabilistic approach.

11TER	Game Theory and Optimal Decision-Making	ZK	2
	neory, utility theory. Explicit form games, backward induction. Normal form games. Antagonistic conflict, matrix games. Repeated games		
Cooperative game	es without transferable payoffs. Cooperative games with transferable payoffs (imputation, core, Shapley value, nucleolus). Application	s of game theory a	above all in
	economics and transportation.		
11THRO	Queuing Theory	ZK	2
	cess, definition, random distribution, and probability. Basic processes, process of revitalisation. Markov process, Markov models, Kenda		odel M/M/1,
	els 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	-	
11TZOK	Inventory, Replacement and Scheduling Theory	Z,ZK	4
	- introduction, static models, deterministic dynamic models, stochastic dynamic models. Replacement theory - introduction, models for	•	
deteriorate with tim	e, models for replacement of items that fail completely. Scheduling theory - introduction, single machine scheduling problems, parallel	machine schedulin	g problems,
443751417	flow shop scheduling problems and job shop scheduling problems.	_	
11XN4K	Seminar for Diploma Thesis	Z	8
11XNDM	Master Thesis for study programme LA	Z	18
12XN4K	Seminar for Diploma Thesis	Z	8
12XNDM	Master Thesis for study programme LA	Z	18
14BIG	Big Data	KZ	2
Principle of MapRe	duce. Basic Principles of Big Data Management. Comparison and Classification of NoSQL Databases. Key Database Value Databases.	Column Databases	s. Document
Databases. Graph	Databases-Basic Principles. Graph Databases-Advanced Aspects. Indexing. Interpretation. Advanced Principles Big Data Manageme	ent. NewSQL Datal	base. Cloud
	computing. Data warehouses and Big Data. Cloud computing. Data warehouses and Big Data. Other Big Data issues.		
14GISS	Geographical Information Systems	KZ	2
Constructio	n of saving format of space-oriented information land-survey and cartography minimum basic tasks of spatial operations principles of	territorial identifica	ation
14TEL	Telecommunications	KZ	3
Status quo and n	ew trends in telecommunications systems. Economical and legal aspects of telecommunications networks design and telecommunic	ations services pro	visioning,
identification and qu	uantification of hlererchical telecommunications networks and telecommunication services performance based on addopted performance p	parameters, telecor	nmunication
	services typically applied within transport and specifically logistic solutions.		
14W2KI	Capital Investment in Transportation and Telecommunications	KZ	3
	Financial market, investment desicion making - long term goals and investment strategies, long term financing		
14XN4K	Seminar for Diploma Thesis	Z	8
14XNDM	Master Thesis for study programme LA	Z	18
15J2A1	Language - English 1	Z	2
	resentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work e		_
15J2F1	Language - French 1	Z	2
	ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	feedback skills, su	ummarising
	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec		- 1
	language of management.		
15J2I1	Language - Italian 1	Z	2
Grammatical Struc	ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	feedback skills, su	ummarising
technical text conte	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec	hnical registers an	nd their use,
	language of management.		
15J2N1	Language - German 1	Z	2
Grammatical Struc	ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	feedback skills, su	ummarising
technical text conte	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec	hnical registers an	nd their use,
	language of management.		
15J2R1	Language - Russian 1	Z	2
	ctures 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	hnical registers ar	nd their use,
	language of management.		_
15J2S1	Language - Spanish 1	Z	2
	ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,		٠ ا
technical text conte	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec	hnical registers an	nd their use,
45 15 4 6	language of management.	_	
15JBA2	Language - English 2	Z	2
	resentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work		
15JBA3	Language - English 3	Z	2
Presentation Skill	s - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Op	tional courses for o	certificates
45 15 4 4	FCE, CAE.	717	
15JBA4	Language - English 4	ZK	2
Presentation Skill	s - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Op	tional courses for o	certificates
45 1050	FCE, CAE.	7	
15JBF2	Language - French 2	Z	2
	ctures 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	rinicai registers ar	iu tnėir use,
45 IDE0	language of management.	7	
15JBF3	Language - French 3	Z	2
· · · · · · · · · · · · · · · · · · ·	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lad d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v		- 1
and perceptive and	features. Practice of oral and written presentation.	viiii (proicosioridi)	ioni anu 115

15JBI2 Grammatical Structur technical text content, 15JBI3 Grammar and stylistic and perceptive and co	Language - French 4 ss. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la symmunicative 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 - Italian 2 es and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and techniquage of management. Language - Italian 3 es. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la symmunicative 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 - Italian 4	vith (professional) Z feedback skills, so hnical registers ar Z unguage structure	2 summarising and their use,
15JBI2 Grammatical Structur technical text content, 15JBI3 Grammar and stylistic and perceptive and content and stylistic and stylistic and perceptive and content and stylistic and perceptive and stylistic and perceptive and stylistic	permunicative 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 - Italian 2 es and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and techniques of management. Language - Italian 3 es. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la permunicative 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 - Italian 4	vith (professional) Z feedback skills, so hnical registers ar Z unguage structure	2 summarising nd their use,
15JBI2 Grammatical Structur technical text content, 15JBI3 Grammar and stylistic and perceptive and content and stylistic and perceptive and content and stylistic and perceptive and content and stylistic and perceptive and stylistic and perceptive and stylistic and perceptive and stylistic and perceptive and stylistic and	features. Practice of oral and written presentation. Language - Italian 2 es and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tech language of management. Language - Italian 3 es. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la pumunicative 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 - Italian 4	Z feedback skills, so hnical registers ar Z unguage structure	2 ummarising nd their use, 2 knowledge
Grammatical Structur technical text content, 15JBI3 Grammar and stylistic and perceptive and content and stylistic and perceptive and content and stylistic and perceptive and content and stylistic and perceptive and stylistic	Language - Italian 2 es and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tech language of management. Language - Italian 3 es. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la pumunicative 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 - Italian 4	feedback skills, so hnical registers ar Z anguage structure	e knowledge
Grammatical Structur technical text content, 15JBI3 Grammar and stylistic and perceptive and content and stylistic and perceptive and content and stylistic and perceptive and content and stylistic and perceptive and stylistic	es and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tech language of management. Language - Italian 3 ss. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la symmunicative 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 - Italian 4	feedback skills, so hnical registers ar Z anguage structure	cummarising and their use, 2 knowledge
15JBI3 Grammar and stylistic and perceptive and co	structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tech language of management. Language - Italian 3 s. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la mmunicative 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 - Italian 4	hnical registers ar Z anguage structure	2 knowledge
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and perceptive and co	ommunicative 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 - Italian 4		ŭ
15JBI4 Grammar and stylistic	features. Practice of oral and written presentation. Language - Italian 4	,	
Grammar and stylistic			
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and perceptive and co	s. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la	nguage structure	knowledge
	ommunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w	ith (professional)	text and its
	features. Practice of oral and written presentation.		
15JBN2	Language - German 2	Z	2
	es and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,		_
technical text content,	structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tech	nnical registers ar	nd their use,
45 IDNO	language of management.		
15JBN3	Language - German 3 ss. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la	Z	2 knowledge
	is. Selection of conversation and professional topics based on the language level and study locus at the Faculty. Improvement of laborative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w		-
p 1.00p a 10 and 00	features. Practice of oral and written presentation.	. (5.555101101)	110
15JBN4	Language - German 4	ZK	2
	s. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		1
and perceptive and co	ommunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w	ith (professional)	text and its
	features. Practice of oral and written presentation.		
15JBR2	Language - Russian 2	Z	2
Grammatical Structur	es and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	feedback skills, s	ummarising
technical text content,	structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tech	nnical registers ar	nd their use,
	language of management.		
15JBR3	Language - Russian 3	Z	2
=	is. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		_
and perceptive and co	ommunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w features. Practice of oral and written presentation.	ntri (professional)	text and its
15JBR4	Language - Russian 4	ZK	2
	s. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		_
•	ommunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w		_
	features. Practice of oral and written presentation.		
15JBS2	Language - Spanish 2	Z	2
	es and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,		-
technical text content,	structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tech	nnical registers ar	nd their use,
45 1000	language of management.		
15JBS3	Language - Spanish 3	Z	2
	ss. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la ommunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w		
and perceptive and of	features. Practice of oral and written presentation.	iti (professional)	text and its
15JBS4	Language - Spanish 4	ZK	2
· ·	s. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		
	ommunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w		_
	features. Practice of oral and written presentation.		
15W2HS	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 road traffic in the modern period acceleration of the modern period accele	ransport developr	ment during
1st part of 20th centur	y. Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of roa	d travelling in mod	dern period.
	History of road intercections, bridges and traffic control, development of road signs.		
15W2MS	Sociology for Managers	KZ	3
	ch to a corporation. Corporation and its organization. Corporation and its running - human role and communication. Corporation, its		al system.
	an's work position in free market economy. Corporate directorship, work groups, adaptation, strife, different roles and positions in Chapter and ELL		2
15\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Health Protection in Transportation and EU ransportation in CR in the past and present. Conditions before 1989 and after, current legislature, future prospects. Harmonisation	KZ	a de la decembra de l
15W2OZ	ranoportation in OK in the past and present. Conditions before 1303 and alter, buffert redistable. Ididie brusbedis (Pathlellisalier)	or registation with	, ouigi LU
Health protection in t	members. Fundamental principles of health protection and support in selected EU countries.	K7	3
Health protection in the state of the state	members. Fundamental principles of health protection and support in selected EU countries. Food in Transportation	KZ from the world. TI	3 he issues of
Health protection in the state of the state	members. Fundamental principles of health protection and support in selected EU countries.		_
Health protection in the state of the state	members. Fundamental principles of health protection and support in selected EU countries. Food in Transportation teraction transportation and foodstuffs. The health risks. Hygienic safeguard. The practical examples from the Czech Republic and		_
15W2PT The nutrition policy. In	members. Fundamental principles of health protection and support in selected EU countries. Food in Transportation teraction transportation and foodstuffs. The health risks. Hygienic safeguard. The practical examples from the Czech Republic and dining cars, work trains and other railroad equipment. Legislation.	from the world. The KZ	he issues of
15W2PT The nutrition policy. In 15W2SR Basic skills of oral and	members. Fundamental principles of health protection and support in selected EU countries. Food in Transportation teraction transportation and foodstuffs. The health risks. Hygienic safeguard. The practical examples from the Czech Republic and dining cars, work trains and other railroad equipment. Legislation. Stylistics and Rhetorics	from the world. The KZ	he issues of 3 ak well-vocal
Health protection in the state of the nutrition policy. In 15W2SR Basic skills of oral and organs, voice training. 15W2TS	members. Fundamental principles of health protection and support in selected EU countries. Food in Transportation teraction transportation and foodstuffs. The health risks. Hygienic safeguard. The practical examples from the Czech Republic and dining cars, work trains and other railroad equipment. Legislation. Stylistics and Rhetorics written expression as a means of human communication. Basic information about speech, articulation, oral and written language. Language semantics, language syntactic and the pragmatic aspect. Creative thought and its oral and written expression. Practice - Technician and Contemporary Society	KZ Teaching to spea	3 ak well-vocal ls of speech.
Health protection in the state of the nutrition policy. In 15W2SR Basic skills of oral and organs, voice training. 15W2TS	members. Fundamental principles of health protection and support in selected EU countries. Food in Transportation teraction transportation and foodstuffs. The health risks. Hygienic safeguard. The practical examples from the Czech Republic and dining cars, work trains and other railroad equipment. Legislation. Stylistics and Rhetorics written expression as a means of human communication. Basic information about speech, articulation, oral and written language. Language semantics, language syntactic and the pragmatic aspect. Creative thought and its oral and written expression. Practice - or	KZ Teaching to spea	3 ak well-vocal ls of speech.

15XN4K	Seminar for Diploma Thesis	Z	8
15XNDM	Master Thesis for study programme LA	Z	18
16XN4K	Seminar for Diploma Thesis	Z	8
16XNDM	Master Thesis for study programme LA	Z	18
17AMAK	Application of Marketing Tools in Transport Industry	KZ	2
	plans. Implementation of marketing campaigns. Branding and brand promotion. Multimedia presentations. Direct marketing and relate		
17DOCH	Travel Behavior	KZ	3
-	usal effects in travel behavior research (quasi-experimental and experimental approaches). Data collection (theory of measurement; or	-	
and data collection). Analysis and interpretation of data (advanced regression models; issues of analysis and interpretation of results: effect size, practic Analysis and interpr. of data (surveys, choice exp., panel. data).	cai vs. statisticai si	gnificance)
17DOPM	Transportation Planning and Modeling	Z,ZK	6
	ן ols used within four step model (trip generation, trip distribution, mode choice and trip distribution). Mobility and availability in urban al		
Dadio diopo ana to	transportation planning and modelling.	1000, Idila 000. 140	W trorido io
17LSC	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	,	_
of life, individual qua	ality of life, city "smartness" assessment, legislation in Smart Cities, Smart Cities transformation, last mile logistics, e-commerce, new ap	proaches in last m	nile logistics
	last mile logisitcs in cities and in regions.		
17MADS	Management of Transport Systems	KZ	2
	Functions, processes and systems of management in transport, organisational structures, strategy, social responsibility, soft sl		
17MID	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 f		-
course focuses on	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	the timetable and	the financia
47000	budget, the basic documents for the possible assignment of the contract.	717	^
17PPC	Carriage Processes	ZK	3
47DKOD	Domestic carriages, international carriages, nomenclature of goods, pricing, contracting, responsibility for damages.	7 71/	2
17RKOP	Management of commercial projects in transport customer, activities, output - quality, time, money), project surroundings, location of the project (area analysis, traffic flows, authorizati	Z,ZK	3
	ect , sources of financing, customer-supplier relations, feasibility studies, sensitivity and multi-criteria analysis, financial and value an		="
structure of the pro	changes.	arysis, manageme	in or projec
17RVIP	Public Project Management in Transport	Z,ZK	5
	roject management in the public sector, used procedures and standards of project management, organizational structure in project ma	,	
	project and pre-project preparation in transport and transport infrastructure and their specifics, feasibility study and CBA, project ev		
17TSI		KZ	2
_	Technology of Road Transport		l
-	ational, technical, logistic and safety conditions of road transport, basic transport technologies, special transport, international agreer	•	
parameters and sp	ecialization of transport, handling and loading/unloading means, maintenance, service and repairs of road vehicles, safety of road tra	ansport and choice	e of optima
	transport unit.		
17TZNK	Technology of Railway Transport	Z,ZK	5
	assesment, model operational situation with a system running time between IPT-nodes, calculation of traction energy savings compa		
for designing of fle	eting crossing station, solving of capacity problem and blocking time in relation to train protection system, robustness of timetable, sy	stem concept of t	reight train
4714/0 4 14	paths, guidelines for centralised operational traffic control and management.		
17W2AM	Application of Marketing Tools in Transportation		_
	narketing principles in transport issues, marketing tools suitable for transport, case studies of the use of marketing in the sphere of pu	KZ	3
17W2FM		ublic passenger tra	ansport.
-	Financing in Urban Mass Transportation	ublic passenger tra KZ	ansport.
UMT types. UMT (evelopment in Prague and other cities in the world. Building and operation of public tram, bus, and trolleybus networks. Underground	ublic passenger tra KZ building and opera	ansport. 3 ation. Othe
	evelopment in Prague and other cities in the world. Building and operation of public tram, bus, and trolleybus networks. Underground levelopment in small towns. Particularities of investment and operation financing of individual UMT types. Historic and present models	ublic passenger tra KZ building and opera	ansport. 3 ation. Othe
472/1417	evelopment in Prague and other cities in the world. Building and operation of public tram, bus, and trolleybus networks. Underground levelopment in small towns. Particularities of investment and operation financing of individual UMT types. Historic and present models inspection and blind passengers. Tourism & DMT. UMT typology & DMT. UMT typology amp; choice of optimum financing.	ublic passenger tra KZ building and oper s of UMT financing	ansport. 3 ation. Othe
17XN4K	evelopment in Prague and other cities in the world. Building and operation of public tram, bus, and trolleybus networks. Underground levelopment in small towns. Particularities of investment and operation financing of individual UMT types. Historic and present models inspection and blind passengers. Tourism & DIPLOME. UMT typology & DIPLOME (Seminar for DIPLOME) Seminar for DIPLOME Thesis	ublic passenger tra KZ building and opera s of UMT financing Z	ansport. 3 ation. Othe 3. Transpor
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