## Study plan

# Name of study plan: Master Part-Time LA from 2024/25

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: 117
Elective courses credits: 3
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-NK-LA-24/25

Name of the group: 1st Sem. Master Part-Time LA from 2024/25

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:

last mile logisites in cities and in regions.

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
11LIP2	Linear Programming 2 Pavla Pecherková, Ivan Nagy, Karel Je men Pavla Pecherková Ivan Nagy (Gar.)	Z,ZK	3	2P+1C+10B	Z	Z
11TER	Game Theory and Optimal Decision-Making Magdalena Hykšová Magdalena Hykšová (Gar.)	ZK	2	2P+0C+8B	Z	Z
17LSC	Logistics in Smart Cities Tomáš Horák Tomáš Horák (Gar.)	Z,ZK	6	2P+2C+14B	Z	Z
17TZNK	Technology of Railway Transport Michal Drábek, Rudolf Vávra, Vít Janoš Vít Janoš (Gar.)	Z,ZK	5	12B	Z	Z
11TZOK	Inventory, Replacement and Scheduling Theory  Dušan Teichmann Dušan Teichmann	Z,ZK	4	10B	Z	Z
14GISS	Geographical Information Systems Vít Fábera, František Kekula, Tomáš Janata, Zuzana Purkrábková <b>Tomáš</b> Janata Tomáš Janata (Gar.)	KZ	2	0P+2C+8B	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 Michal Drábek, Rudolf Vávra, Vít Janoš, Daniel Drnec Michal Drábek (Gar.)	KZ	2	2P+0C+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

### Characteristics of the courses of this group of Study Plan: Code=1S-NK-LA-24/25 Name=1st Sem. Master Part-Time LA from 2024/25

11LIP2	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 boxe							
tasks of scheduling, heuristics, metaheuristics - genetic algorithms, ant colony optimization.							
11TER	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 o	james, evolutiona	ry game theory.				
Cooperative games wit	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.						
17LSC	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 system and its components, quality							
of life, individual quality of life, city "smartness" assessment, legislation in Smart Cities, Smart Cities transformation, last mile logistics, e-commerce, new approaches in last mile logistics.							

17TZNK	Technology of Railway Transport	Z,ZK	5			
Track line capacity assessment, 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	ntralised operational traffic control and management.					
11TZOK	Inventory, Replacement and Scheduling Theory	Z,ZK	4			
Inventory theory - introd	uction, static models, deterministic dynamic models, stochastic dynamic models. Replacement theory - introduction, models	for replacement of	of items that			
deteriorate with time, mo	odels for replacement of items that fail completely. Scheduling theory - introduction, single machine scheduling problems, para	llel machine sche	duling problems,			
flow shop scheduling pro	oblems and job shop scheduling problems.					
14GISS	Geographical Information Systems	KZ	2			
Construction of saving for	ormat of space-oriented information land-survey and cartography minimum basic tasks of spatial operations principles of teri	itorial identification	n			
17MADS	Management of Transport Systems	KZ	2			
Functions, processes ar	nd systems of management in transport, organisational structures, strategy, social responsibility, soft skills.					
17TSI	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 speciali	zation of transport, handling and loading/unloading means, maintenance, service and repairs of road vehicles, safety of roac	transport and ch	oice of optimal			
transport unit.						
15J2A1	Language - English 1	Z	2			
Presentation Skills - exp	pert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.	•				

Code of the group: 2S-NK-LA-24/25

Name of the group: 2nd Sem. Master Part-Time LA from 2024/25

computing. Data warehouses and Big Data. Cloud computing. Data warehouses and Big Data. Other Big Data issues.

services typically applied within transport and specifically logistic solutions.

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:

14TEL

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
11THRO	Queuing Theory Šárka Vorá ová <b>Šárka Vorá ová</b> Šárka Vorá ová (Gar.)	ZK	2	2P+0C+8E	B 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+10E	L 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+10E	L L	Z
14BIG	Big Data Jana Kaliková, Jan Kr ál <b>Jana Kaliková</b> Jana Kaliková (Gar.)	KZ	2	0P+2C+8E	B L	Z
14TEL	<b>Telecommunications</b> Tomáš Zelinka, Radek Holý, Zden k Lokaj, Martin Šrotý <b>Tomáš Zelinka</b> Tomáš Zelinka (Gar.)	KZ	3	2P+1C+10E	L L	Z
17DOCH	Travel Behavior Vít Janoš, Milan K íž Vít Janoš (Gar.)	KZ	3	3P+0C+10E	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+10E	B L	Z

#### Characteristics of the courses of this group of Study Plan: Code=2S-NK-LA-24/25 Name=2nd Sem. Master Part-Time LA from 2024/25 11THRO **Queuing Theory** Discrete event process, definition, random distribution, and probability. Basic processes, process of revitalisation. Markov process, Markov models, Kendall classification, 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 Quantitative Methods in Transport 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 (metaheuristics) methods. Managerial Information Systems in Transport IT and their use in building IS of modern transport company. New EU legislation on cyber security and data protection puts transport organizations in front of new challenges. The course 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 and the financial budget, the basic documents for the possible assignment of the contract. Management of commercial projects in transport Business project (customer, activities, output - quality, time, money), project surroundings, location of the project (area analysis, traffic flows, authorization procedure), organizational structure of the project, sources of financing, customer-supplier relations, feasibility studies, sensitivity and multi-criteria analysis, financial and value analysis, management of project changes 14BIG Big Data ΚZ Principle of MapReduce. Basic Principles of Big Data Management. Comparison and Classification of NoSQL Databases. Key Database Value Database. Column Databases. Document Databases. Graph Databases-Basic Principles. Graph Databases-Advanced Aspects. Indexing. Interpretation. Advanced Principles Big Data Management. NewSQL Database. Cloud

Status quo and new trends in telecommunications systems. Economical and legal aspects of telecommunications networks design and telecommunications services provisioning, identification and quantification of hiererchical telecommunications networks and telecommunication services performance based on addopted performance parameters, telecommunication

17DOCH Travel Behavior 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 interpr. of data (surveys, choice exp., panel. data). Language - English 2 Presentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement

Code of the group: 3S-NK-LA-25/26

Name of the group: 3rd Sem. Master Part-Time LA from 2025/26

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:

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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
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
17DOPM	Transportation Planning and Modeling	Z,ZK	6	2P+2C	Z	Z
17PPC	Carriage Processes Roman St rba Roman St 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
17AMAK	Application of Marketing Tools in Transport Industry	KZ	2	10B	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

11STS	Stochastic Systems	Z,ZK	4
The subject deals w	ith the problems of mathematical modelling of dynamical systems, estimation od these models and their utilization for predictior	n. The results are ill	ustrated on
practical transportat	ion tasks. Mathematical theory roots from probability and mathematical statistics and they use the methods of the Bayesian pro	babilistic approach	
17DOPM	Transportation Planning and Modeling	Z,ZK	6
Basic steps and too	ls used within four step model (trip generation, trip distribution, mode choice and trip distribution). Mobility and availability in urb	an areas, land use.	New trends for
transportation plann	ing and modelling.		
17PPC	Carriage Processes	ZK	3
17110	Carriage i rocesses		3
_	international carriages, nomenclature of goods, pricing, contracting, responsibility for damages.	ZIX	3
Domestic carriages		Z,ZK	5
Domestic carriages	international carriages, nomenclature of goods, pricing, contracting, responsibility for damages.	Z,ZK	5
Domestic carriages 17RVIP Basic concepts of po	international carriages, nomenclature of goods, pricing, contracting, responsibility for damages.  Public Project Management in Transport	Z,ZK	5
Domestic carriages.  17RVIP  Basic concepts of project and pre-project.	international carriages, nomenclature of goods, pricing, contracting, responsibility for damages.  Public Project Management in Transport roject management in the public sector, used procedures and standards of project management, organizational structure in project	Z,ZK	5
Domestic carriages 17RVIP Basic concepts of project and pre-proj 17AMAK	niternational carriages, nomenclature of goods, pricing, contracting, responsibility for damages.  Public Project Management in Transport  roject management in the public sector, used procedures and standards of project management, organizational structure in project preparation in transport and transport infrastructure and their specifics, feasibility study and CBA, project evaluation.	Z,ZK	5 ne public secto
Domestic carriages 17RVIP Basic concepts of project and pre-proj 17AMAK	international carriages, nomenclature of goods, pricing, contracting, responsibility for damages.  Public Project Management in Transport roject management in the public sector, used procedures and standards of project management, organizational structure in project preparation in transport and transport infrastructure and their specifics, feasibility study and CBA, project evaluation.  Application of Marketing Tools in Transport Industry	Z,ZK	5 ne public secto

Code of the group: 4S-NK-LA-25/26

Name of the group: 4th Sem. Master Part-Time LA from 2025/26

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
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

#### Characteristics of the courses of this group of Study Plan: Code=4S-NK-LA-25/26 Name=4th Sem. Master Part-Time LA from 2025/26

15JBA4	Language - English 4	ZK	2
Presentation Skills - ex	pert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.	Optional courses f	or certificates
FCF CAF			

Code of the group: XD-NK-LA-25/26

Name of the group: Thesis Master Part-Time LA from 2025/26

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
11XNDM	Master Thesis for study programme LA	Z	18	0P+20C+70B	L	Z
12XNDM	Master Thesis for study programme LA	Z	18	0P+20C+70B	B L	Z
14XNDM	Master Thesis for study programme LA	Z	18	0P+20C+70B	B L	Z
15XNDM	Master Thesis for study programme LA	Z	18	0P+20C+70B	B L	Z
16XNDM	Master Thesis for study programme LA P emysl Toman	Z	18	0P+20C+70B	B L	Z
17XNDM	Master Thesis for study programme LA Tomáš Horák, Michal Drábek, Rudolf Vávra, Vít Janoš, Dušan Teichmann, Roman Št rba, Denisa Mocková, Václav Baroch, Petra Skolilová, Václav Baroch (Gar.)	Z	18	0P+20C+70B	L L	Z
18XNDM	Master Thesis for study programme LA Nela Kr má ová	Z	18	0P+20C+70B	B L	Z
20XNDM	Master Thesis for study programme LA	Z	18	0P+20C+70B	L L	Z
21XNDM	Master Thesis for study programme LA	Z	18	0P+20C+70B	B L	Z
22XNDM	Master Thesis for study programme LA	Z	18	0P+20C+70B	L	Z

Characteristics of the courses of this group of Study Plan: Code=XD-NK-LA-25/26 Name=Thesis Master Part-Time LA from 2025/26

11XNDM	Master Thesis for study programme LA	Z	18
12XNDM	Master Thesis for study programme LA	Z	18
14XNDM	Master Thesis for study programme LA	Z	18
15XNDM	Master Thesis for study programme LA	Z	18
16XNDM	Master Thesis for study programme LA	Z	18
17XNDM	Master Thesis for study programme LA	Z	18
18XNDM	Master Thesis for study programme LA	Z	18
20XNDM	Master Thesis for study programme LA	Z	18
21XNDM	Master Thesis for study programme LA	Z	18
22XNDM	Master Thesis for study programme LA	Z	18

Code of the group: XS-NK-LA-25/26

Name of the group: Thesis Seminary Master Part-Time LA from 2025/26 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:

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
11XN4K	Seminar for Diploma Thesis	Z	8	8B	L	Z
12XN4K	Seminar for Diploma Thesis	Z	8	8B	L	Z
14XN4K	Seminar for Diploma Thesis	Z	8	8B	L	Z
15XN4K	Seminar for Diploma Thesis	Z	8	8B	L	Z
22XN4K	Seminar for Diploma Thesis	Z	8	8B	L	Z
17XN4K	Seminar for Diploma Thesis	Z	8	8B	L	Z
18XN4K	Seminar for Diploma Thesis	Z	8	8B	L	Z
20XN4K	Seminar for Diploma Thesis	Z	8	8B	L	Z
21XN4K	Seminar for Diploma Thesis	Z	8	8B	L	Z
16XN4K	Seminar for Diploma Thesis	Z	8	8B	L	Z

Characteristics of the courses of this group of Study Plan: Code=XS-NK-LA-25/26 Name=Thesis Seminary Master Part-Time LA from 2025/26

11XN4K	Seminar for Diploma Thesis	Z	8
12XN4K	Seminar for Diploma Thesis	Z	8
14XN4K	Seminar for Diploma Thesis	Z	8
15XN4K	Seminar for Diploma Thesis	Z	8
22XN4K	Seminar for Diploma Thesis	Z	8
17XN4K	Seminar for Diploma Thesis	Z	8
18XN4K	Seminar for Diploma Thesis	Z	8
20XN4K	Seminar for Diploma Thesis	Z	8
21XN4K	Seminar for Diploma Thesis	Z	8
16XN4K	Seminar for Diploma Thesis	Z	8

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 6

The role of the block: PV

Code of the group: Y2-NK-LA-24/25

Name of the group: Comp. Sel. Courses Master Part-Time LA from 2024/25 Requirement credits in the group: In this group you have to gain 6 credits

Requirement courses in the group: In this group you have to complete 3 courses

Credits in the group: 6 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
17W2AM	Application of Marketing Tools in Transportation  Alexandra Dvo á ková	KZ	3	8B	L	PV
21W2CR	CRM	KZ	3	8B	L	PV
17W2FM	Financing in Urban Mass Transportation Václav Baroch Václav Baroch (Gar.)	KZ	3	8B	Z	PV
21W2FM	Aviation Company Financial Management Radoslav Zozu ák Radoslav Zozu ák	KZ	3	8B	Z	PV
15W2HS	Road Transport History	KZ	3	8B	L	PV
14W2KI	Capital Investment in Transportation and Telecommunications	KZ	3	8B	L	PV
15W2MS	Sociology for Managers Martina Šmidochová	KZ	3	8B	Z	PV
21W2MK	Marketing of Air Transport	KZ	3	8B	L	PV
15W2OZ	Health Protection in Transportation and EU Petr Musil	KZ	3	8B	Z	PV
15W2PT	Food in Transportation Petr Musil	KZ	3	8B	L	PV
21W2PP	Law and Operation in Air Transport	KZ	3	8B	L	PV
15W2SR	Stylistics and Rhetorics	KZ	3	8B	Z	PV
15W2TS	Technician and Contemporary Society	KZ	3	8B	L	PV

# Characteristics of the courses of this group of Study Plan: Code=Y2-NK-LA-24/25 Name=Comp. Sel. Courses Master Part-Time LA from 2024/25

17W2AM	Application of Marketing Tools in Transportation	KZ	3
Application of mark	eting principles in transport issues, marketing tools suitable for transport, case studies of the use of marketing in the sphere of pu	ıblic passenger tra	ansport.
21W2CR	CRM	KZ	3
Introduction to CRI	1. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the h	uman body. Fatigu	e Sleep &
Vigilance. Informati	on Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership & Decision Making. Communication. Leadership & Decision Making. Communication. Leadership & Decision Making. Communication.	viour. Automation.	
17W2FM	Financing in Urban Mass Transportation	KZ	3
UMT history and de	evelopment in Prague and other cities in the world. Building and operation of public tram, bus, and trolleybus networks. Undergrou	nd building and o	peration. Other
UMT types. UMT d	evelopment in small towns. Particularities of investment and operation financing of individual UMT types. Historic and present mo	dels of UMT finance	cing. Transport
inspection and bline	passengers. Tourism & DMT. UMT typology & passengers. Tourism & DMT. UMT typology & DMT. Choice of optimum financing.		
21W2FM	Aviation Company Financial Management	KZ	3
Theories of corpora	te finance - financial statements, budget, forecast. Financial policy of the company. Financial resources - long-term financial reso	urces, depreciatio	n, retained
earnings, shares, b	onds, loans, leasing, capital. Financial and economic analysis of the company - structure and content.		
15W2HS	Road Transport History	KZ	3
Roads and road tra	ffic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of ro	ad transport deve	opment during
1st part of 20th cer	tury. Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of	road travelling in	modern period
History of road inte	rections, bridges and traffic control, development of road signs.		
14W2KI	Capital Investment in Transportation and Telecommunications	KZ	3
Financial market, in	vestment desicion making - long term goals and investment strategies, long term financing	'	

15W2MS	Sociology for Managers	KZ	3
Sociological appro	ach to a corporation. Corporation and its organization. Corporation and its running - human role and communication. Corporation	n, its culture and so	cial system.
Human's work pos	ition in free market economy. Corporate directorship, work groups, adaptation, strife, different roles and positions in corporation.		
21W2MK	Marketing of Air Transport	KZ	3
Definition, purpose	, evolution, stages and types of marketing. Marketing in air transportation. Marketing research. Market segmentation. Airlines ma	rketing strategies.	Airline Products
'ield management	and revenues. Air transport market sales.		
15W2OZ	Health Protection in Transportation and EU	KZ	3
lealth protection in	n transportation in CR in the past and present. Conditions before 1989 and after, current legislature, future prospects. Harmonisa	ation of legislation v	with other EU
nembers. Fundam	ental principles of health protection and support in selected EU countries.		
5W2PT	Food in Transportation	KZ	3
he nutrition policy	. Interaction transportation and foodstuffs. The health risks. Hygienic safeguard. The practical examples from the Czech Republic	and from the worl	d. The issues of
lining cars, work to	ains and other railroad equipment. Legislation.		
21W2PP	Law and Operation in Air Transport	KZ	3
Development of av	iation law. International conventions on civil aviation. International organisations and including of the Czech Republic in these or	ganisations. EU leg	islation and civi
viation. Execution	of state administration and state supervision in matters of civil aviation, in accordance with Act No. 49/1997 Col. Facilitation. Re-	sponsibilities of air	carriers for
oassengers, lugga	ge and cargo. The safe transport of dangerous goods.		
15W2SR	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 lang	uage. Teaching to	speak well-voca
organs, voice traini	ng. Language semantics, language syntactic and the pragmatic aspect. Creative thought and its oral and written expression. Pract	tice - cultivating the	skills of speech
15W2TS	Technician and Contemporary Society	KZ	3
Why to take off a h	at 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	on a PC, it must be	true - it's on the
nternet and in new	spapers, 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-NP-LA-20/21

Name of the group: Language Courses Master Full-Time LA from 2020/21 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
15J2F1	Language - French 1 Irena Veselková	Z	2	0P+2C+10E	3 Z	J
15J2l1	Language - Italian 1 Irena Veselková	Z	2	0P+2C+10E	3 Z	J
15J2N1	Language - German 1 Eva Rezlerová, Martina Navrátilová, Jana Štikarová	Z	2	0P+2C+10E	3 Z	J
15J2R1	Language - Russian 1 Marie Michlová	Z	2	0P+2C+10E	Z	J
15J2S1	Language - Spanish 1 Nina Hricsina Puškinová	Z	2	0P+2C+10E	Z	J
15JBF2	Language - French 2 Irena Veselková	Z	2	0P+2C+10E	B L	J
15JBI2	Language - Italian 2	Z	2	0P+2C+10E	L	J
15JBN2	Language - German 2 Eva Rezlerová, Martina Navrátilová, Jana Štikarová	Z	2	0P+2C+10E	B L	J
15JBR2	Language - Russian 2 Marie Michlová	Z	2	0P+2C+10E	B L	J
15JBS2	Language - Spanish 2 Nina Hricsina Puškinová, Zuzana Krinková	Z	2	0P+2C+10E	B L	J
15JBF3	Language - French 3 Irena Veselková	Z	2	0P+2C+10E	3 Z	J
15JBI3	Language - Italian 3 Irena Veselková	Z	2	0P+2C+10E	3 Z	J
15JBN3	Language - German 3 Eva Rezlerová, Martina Navrátilová, Jana Štikarová	Z	2	0P+2C+10E	3 Z	J
15JBR3	Language - Russian 3 Marie Michlová	Z	2	0P+2C+10E	3 Z	J
15JBS3	Language - Spanish 3 Nina Hricsina Puškinová	Z	2	0P+2C+10E	3 Z	J
15JBF4	Language - French 4 Irena Veselková	ZK	2	0P+2C+10E	B L	J
15JBI4	Language - Italian 4	ZK	2	0P+2C+10E	B L	J

15JBN4	Language - German 4	ZK	2	0P+2C+10B	L	J
	Eva Rezlerová, Martina Navrátilová, Jana Štikarová  Language - Russian 4					
5JBR4	Marie Michlová	ZK	2	0P+2C+10B	L	J
5JBS4	Language - Spanish 4 Eva Rezlerová, Nina Hricsina Puškinová	ZK	2	0P+2C+10B	L	J
naracteristics of th 20/21	e courses of this group of Study Plan: Code=JZ-NP-LA-20/21 N	ame=Langua	ge Cour	ses Maste	r Full-Tim	e LA fro
	inguage - French 1				Z	2
	Style. Selection of conversation topics relating to transportation sciences. Developing	perceptive and c	ommunicati	ive skills, feed	back skills, s	ummarisir
	turing presentations and meeting minutes, elementary rhetorics of foreign language a	nd practical application	ation, forma	al and technica	al registers a	nd their us
nguage of management.	to P				<del>-</del> -	
	Inguage - Italian 1 d Style. Selection of conversation topics relating to transportation sciences. Developing	r nercentive and a		ı	Z	2
	turing presentations and meeting minutes, elementary rhetorics of foreign language at					
nguage of management.	annig procentations and moeting immutes, elementary moteries of lensigh language at	na praotioai appilo			ai rogiotoro a	
5J2N1 La	inguage - German 1				Z	2
	Style. Selection of conversation topics relating to transportation sciences. Developing	perceptive and c	ommunicati	ive skills, feed	back skills, s	ummarisir
	turing presentations and meeting minutes, elementary rhetorics of foreign language a	nd practical applic	ation, forma	al and technica	al registers a	nd their us
nguage of management.					<del>-</del>	
	inguage - Russian 1	r naraantiya and a			Z	2
	d Style. Selection of conversation topics relating to transportation sciences. Developing turing presentations and meeting minutes, elementary rhetorics of foreign language ar					
nguage of management.		na praemear appile			ai rogiotoro a	
5J2S1 La	inguage - Spanish 1				Z	2
	Style. Selection of conversation topics relating to transportation sciences. Developing	perceptive and c	ommunicati	ive skills, feed	back skills, s	ummarisir
	turing presentations and meeting minutes, elementary rhetorics of foreign language a	nd practical application	ation, forma	al and technica	al registers a	nd their us
nguage of management.					_	
	inguage - French 2			I	Z	2
	d Style. Selection of conversation topics relating to transportation sciences. Developing turing presentations and meeting minutes, elementary rhetorics of foreign language at					
iguage of management.	turing presentations and meeting minutes, elementary metorics of foreign language at	na practical applica	ation, ionne	ai and tecinic	ai registers a	na men a
<del> </del>	inguage - Italian 2				7	2
	d Style. Selection of conversation topics relating to transportation sciences. Developing	g perceptive and c	ommunicati	ive skills, feed	back skills, s	ummarisir
	turing presentations and meeting minutes, elementary rhetorics of foreign language a	nd practical applic	ation, forma	al and technica	al registers a	nd their us
nguage of management.						
	inguage - German 2	r naraantiya and a			Z	2
	d Style. Selection of conversation topics relating to transportation sciences. Developing turing presentations and meeting minutes, elementary rhetorics of foreign language at					
nguage of management.	taring procontations and mooting minutes, clotheridary motories of foreign language at	na praotioai applio	ation, ionne	ar arra tooriino	ai rogiotoro a	na tron ac
5JBR2 La	inguage - Russian 2				Z	2
	d Style. Selection of conversation topics relating to transportation sciences. Developing	perceptive and c	ommunicati	ive skills, feed	back skills, s	ummarisin
	turing presentations and meeting minutes, elementary rhetorics of foreign language a	nd practical applic	ation, forma	al and technica	al registers a	nd their us
nguage of management.	0 110				<del>-</del> -	
	Inguage - Spanish 2 I Style. Selection of conversation topics relating to transportation sciences. Developing	a porcontive and c	ommunicati	I	Z	2 ummarisin
	turing presentations and meeting minutes, elementary rhetorics of foreign language at					
nguage of management.		na praemear appile			ai rogiotoro a	
5JBF3 La	inguage - French 3				Z	2
rammar and stylistics. Se	ection of conversation and professional topics based on the language level and study	focus at the Facult	ty. Improver	nent of langua	age structure	knowledg
	nicative skills, vocabulary development. Basic stylistic forms. Presentation of own know	vledge in oral and	written forn	n. Work with (p	orofessional)	text and it
atures. Practice of oral ar	· · · · · · · · · · · · · · · · · · ·					
l l	inguage - Italian 3	focus at the Facult	u Improvor	1	Z	2 knowledge
	ection of conversation and professional topics based on the language level and study nicative skills, vocabulary development. Basic stylistic forms. Presentation of own knov			-	-	_
atures. Practice of oral ar		riougo iii orai aiia	William Torri	ii. Work war (	protocolorial	toxt and n
5JBN3 La	inguage - German 3				Z	2
	ection of conversation and professional topics based on the language level and study	focus at the Facult	ty. Improver	ment of langua	age structure	knowledg
	nicative skills, vocabulary development. Basic stylistic forms. Presentation of own know	vledge in oral and	written forn	n. Work with (բ	orofessional)	text and it
atures. Practice of oral ar	·			1	7	
	Inguage - Russian 3 ection of conversation and professional tonics based on the language level and study.	focus at the English	ty Improver	1	Z	2 knowleda
	ection of conversation and professional topics based on the language level and study nicative skills, vocabulary development. Basic stylistic forms. Presentation of own knov			-	-	_
atures. Practice of oral ar		2-9 o.a. a.iu			2.200.01101)	
	inguage - Spanish 3				Z	2
I	ection of conversation and professional topics based on the language level and study	focus at the Facult	ty. Improver	1	į.	
	nicative skills, vocabulary development. Basic stylistic forms. Presentation of own know	vledge in oral and	written forn	n. Work with (բ	orofessional)	text and it
atures. Practice of oral ar	·			1	<sup>1</sup>	
· ·	inguage - French 4	<b>.</b>			ZK	2
=	ection of conversation and professional topics based on the language level and study			-	-	_
a perceptive and commu	nicative skills, vocabulary development. Basic stylistic forms. Presentation of own know d written presentation	vieuge iii orai and	willen lott	ii. vvoik witti (F	บเบเซออเปกัสไ)	וכאו מווט וו

features. Practice of oral and written presentation.

15JBI4	Language - Italian 4	ZK	2
•	cs. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of		•
	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work	with (professional) t	ext and its
	oral and written presentation.		
15JBN4	Language - German 4	ZK	2
•	cs. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of		•
	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work	with (professional) t	ext and its
	oral and written presentation.	717	
15JBR4	Language - Russian 4	ZK	2
-	cs. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of		_
	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work	with (professional) t	ext and its
	oral and written presentation.	717	
15JBS4	Language - Spanish 4	ZK	2
•	cs. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of		•
	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work oral and written presentation.	with (professional) i	ext and its
Code	List of courses of this pass:	Completion	Credits
Code	Name of the course	Completion	Credits 7
11KMDK	Name of the course  Quantitative Methods in Transport	Z,ZK	7
11KMDK The course focuses	Name of the course  Quantitative Methods in Transport on the issue of the use of undirected graphs tree type, planar graphs and their coloring. Further distribution problems, facility location	Z,ZK on problems are for	7 mulated and
11KMDK The course focuses solved such as mod	Name of the course  Quantitative Methods in Transport on the issue of the use of undirected graphs tree type, planar graphs and their coloring. Further distribution problems, facility location of the use of undirected graphs tree type, planar graphs and their coloring. Further distribution problems, facility location of the use of exact methods there are described simple and also more sofisticated heurise.	Z,ZK on problems are form	7 mulated and s) methods.
11KMDK The course focuses solved such as mod	Name of the course  Quantitative Methods in Transport on the issue of the use of undirected graphs tree type, planar graphs and their coloring. Further distribution problems, facility location of integer linear programming. Besides the use of exact methods there are described simple and also more sofisticated heuris  Linear Programming 2	Z,ZK on problems are forestics (metaheuristics Z,ZK	7 mulated and s) methods.
11KMDK The course focuses solved such as mod	Name of the course  Quantitative Methods in Transport on the issue of the use of undirected graphs tree type, planar graphs and their coloring. Further distribution problems, facility location of integer linear programming. Besides the use of exact methods there are described simple and also more sofisticated heurist Linear Programming 2 sk of integer programming, branch and bound method of numerical solution, problems about knapsack, travelling salesman, sets, location.	Z,ZK on problems are forestics (metaheuristics Z,ZK	7 mulated and s) methods.
11KMDK The course focuses solved such as mod	Name of the course  Quantitative Methods in Transport on the issue of the use of undirected graphs tree type, planar graphs and their coloring. Further distribution problems, facility location of integer linear programming. Besides the use of exact methods there are described simple and also more sofisticated heuris  Linear Programming 2	Z,ZK on problems are forestics (metaheuristics Z,ZK	7 mulated and s) methods.

solved such as me	odels of integer linear programming. Besides the use of exact methods there are described simple and also more sofisticated heurist	ics (metaheuristics	s) methods.
11LIP2	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, loc	ation of stores and	post boxes,
	tasks of scheduling, heuristics, metaheuristics - genetic algorithms, ant colony optimization.		
11STS	Stochastic Systems	Z,ZK	4
•	s with the problems of mathematical modelling of dynamical systems, estimation od these models and their utilization for prediction.		
practical tra	ansportation tasks. Mathematical theory roots from probability and mathematical statistics and they use the methods of the Bayesian	probabilistic appro	ach.
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 gam		•
Cooperative game	es without transferable payoffs. Cooperative games with transferable payoffs (imputation, core, Shapley value, nucleolus). Application	s of game theory	above all in
	economics and transportation.		
11THRO	Queuing Theory	ZK	2
•	sess, definition, random distribution, and probability. Basic processes, process of revitalisation. Markov process, Markov models, Kend		nodel 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	<u>.                                      </u>	
11TZOK	Inventory, Replacement and Scheduling Theory	Z,ZK	4
	- introduction, static models, deterministic dynamic models, stochastic dynamic models. Replacement theory - introduction, models f	•	
deteriorate with tim	e, models for replacement of items that fail completely. Scheduling theory - introduction, single machine scheduling problems, parallel	machine schedulir	ng problems,
447/141/	flow shop scheduling problems and job shop scheduling problems.	7	
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
·	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
	computing. Data warehouses and Big Data. Cloud computing. Data warehouses and Big Data. Other Big Data issues.		Г
14GISS	Geographical Information Systems	KZ	2
	n of saving format of space-oriented information land-survey and cartography minimum basic tasks of spatial operations principles of		1
14TEL	Telecommunications	KZ	3
•	ew trends in telecommunications systems. Economical and legal aspects of telecommunications networks design and telecommunic		•
identification and qu	uantification of hiererchical telecommunications networks and telecommunication services performance based on addopted performance	parameters, teleco	mmunication
	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	engagement.	
15J2F1	Language - French 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	chnical registers ar	nd their use,
	longuage of management		

language of management.

15J2I1	Language - Italian 1	Z	2
Grammatical Stru	ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills	, feedback skills, su	ummarising
technical text cont	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and termination of the contract	chnical registers an	d their use,
	language of management.		
15J2N1	Language - German 1	Z	2
	ctures 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 te		•
teerimeal text cont	language of management.	orinical registers at	ia tricii asc,
15J2R1	Language - Russian 1	Z	2
	ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills	_	
technical text cont	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and ten	chnical registers an	d 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		_
technical text cont	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and ter	chnical registers ar	id their use,
15 ID \ 2	language of management.	Z	2
15JBA2	Language - English 2 resentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work	1	2
15JBA3	Language - English 3	7	2
	ls - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Op		
	FCE, CAE.		
15JBA4	Language - English 4	ZK	2
Presentation Skil	ls - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Op	tional courses for d	ertificates
	FCE, CAE.		
15JBF2	Language - French 2	Z	2
	ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills		_
technical text cont	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and ter	cnnicai registers ar	ia their use,
15JBF3	language of management.  Language - French 3	Z	2
	Lariguage - Fierion 3 istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of I	_	_
	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work		_
	features. Practice of oral and written presentation.	. ,	
15JBF4	Language - French 4	ZK	2
Grammar and sty	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of	anguage structure	knowledge
and perceptive ar	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work	with (professional)	text and its
45 IDIO	features. Practice of oral and written presentation.	-	
15JBI2	Language - Italian 2	Z	2
	ctures 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 te		_
toormoon toxt com	language of management.	oea. regiotere ai	
15JBI3	Language - Italian 3	Z	2
Grammar and sty	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of l	anguage structure	knowledge
and perceptive ar	d 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 oral and written presentation.		
15JBI4	Language - Italian 4	ZK	2
-	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of I d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work		-
and perceptive at	features. Practice of oral and written presentation.	with (professional)	text and its
15JBN2	Language - German 2	Z	2
	ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills	1	
technical text cont	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and ten	chnical registers ar	d their use,
	language of management.		
15JBN3	Language - German 3	Z	2
	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of I		_
and perceptive ar	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work features. Practice of oral and written presentation.	with (professional)	text and its
15JBN4	Language - German 4	ZK	2
	Larryuage - German 4 istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of I	1	
-	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work		-
	features. Practice of oral and written presentation.		
15JBR2	Language - Russian 2	Z	2
	ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills		_
technical text cont	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and ter	chnical registers ar	d their use,
1 <i>E</i> IDD0	language of management.	7	2
15JBR3 Grammar and sty	Language - Russian 3 istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of I	Z	2 knowledge
	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work		_
,	features. Practice of oral and written presentation.	(in the second of the second o	
15JBR4	Language - Russian 4	ZK	2
Grammar and sty	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of l	anguage structure	knowledge
and perceptive ar	d 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 oral and written presentation.		

15JBS2   Grammatical Struct			
	Language - Spanish 2  ures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	Z foodback skills s	2
	t, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tecl		•
	language of management.		
15JBS3	Language - Spanish 3	Z	2
Grammar and stylis	tics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la	inguage structure	knowledge
and perceptive and	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w	vith (professional)	text and its
	features. Practice of oral and written presentation.		
15JBS4	Language - Spanish 4	ZK	2
=	tics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		_
and perceptive and	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.	vitri (professional)	i lext and its
15W2HS	Road Transport History	KZ	3
	fic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road t		
	ury. Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of roa		_
•	History of road intercections, bridges and traffic control, development of road signs.	· ·	
15W2MS	Sociology for Managers	KZ	3
Sociological appro	ach to a corporation. Corporation and its organization. Corporation and its running - human role and communication. Corporation, its	s culture and soc	ial system.
Hı	man's work position in free market economy. Corporate directorship, work groups, adaptation, strife, different roles and positions in	corporation.	
15W2OZ	Health Protection in Transportation and EU	KZ	3
Health protection i	n transportation in CR in the past and present. Conditions before 1989 and after, current legislature, future prospects. Harmonisation	of legislation wit	h other EU
	members. Fundamental principles of health protection and support in selected EU countries.		
15W2PT	Food in Transportation	KZ	3
The nutrition policy.	Interaction transportation and foodstuffs. The health risks. Hygienic safeguard. The practical examples from the Czech Republic and	from the world. T	he issues of
	dining cars, work trains and other railroad equipment. Legislation.		
15W2SR	Stylistics and Rhetorics	KZ	3
	nd written expression as a means of human communication. Basic information about speech, articulation, oral and written language.		
	g. Language semantics, language syntactic and the pragmatic aspect. Creative thought and its oral and written expression. Practice - Company		
15W2TS	Technician and Contemporary Society	KZ	3
why to take on a na	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 F Internet and in newspapers, what are the sights for, interest in public affairs - a hangover from the past?	C, it must be true	e - It S ON the
15XN4K		Z	8
	Seminar for Diploma Thesis		
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
	sal effects in travel behavior research (quasi-experimental and experimental approaches). Data collection (theory of measurement; of		
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).	ai vs. statisticai s	ignificance).
17DOPM	Transportation Planning and Modeling	Z,ZK	6
	s used within four step model (trip generation, trip distribution, mode choice and trip distribution). Mobility and availability in urban ar		1
Basic steps and too	transportation planning and modelling.	cas, iana asc. ivi	W tronus ioi
17LSC	Logistics in Smart Cities	Z,ZK	6
	s in time, city and region, mobility of city residents and movement of goods, sustainability as a concept, Smart Cities, city as a system	2,21	ı n
		m and its compor	6 nents. quality
•		•	nents, quality
•	ity of life, city "smartness" assessment, legislation in Smart Cities, Smart Cities transformation, last mile logistics, e-commerce, new ap last mile logisitcs in cities and in regions.	•	nents, quality
of life, individual qua	ity of life, city "smartness" assessment, legislation in Smart Cities, Smart Cities transformation, last mile logistics, e-commerce, new ap	•	nents, quality
•	ity of life, city "smartness" assessment, legislation in Smart Cities, Smart Cities transformation, last mile logistics, e-commerce, new ap last mile logisitcs in cities and in regions.	proaches in last r	nents, quality
of life, individual qua	ity of life, city "smartness" assessment, legislation in Smart Cities, Smart Cities transformation, last mile logistics, e-commerce, new ap last mile logisitcs in cities and in regions.  Management of Transport Systems	proaches in last r	nents, quality
of life, individual qua	ity of life, city "smartness" assessment, legislation in Smart Cities, Smart Cities transformation, last mile logistics, e-commerce, new ap last mile logisitcs in cities and in regions.  Management of Transport Systems  Functions, processes and systems of management in transport, organisational structures, strategy, social responsibility, soft sk	KZ Kills.	nents, quality nile logistics
of life, individual qua  17MADS  17MID  IT and their use in	ity of life, city "smartness" assessment, legislation in Smart Cities, Smart Cities transformation, last mile logistics, e-commerce, new ap last mile logistics in cities and in regions.  Management of Transport Systems  Functions, processes and systems of management in transport, organisational structures, strategy, social responsibility, soft sk  Managerial Information Systems in Transport  building IS of modern transport company. New EU legislation on cyber security and data protection puts transport organizations in fe 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 security of IS and possible sources of danger.	KZ  KIIIs.  Z,ZK  ront of new challe	nents, quality mile logistics  2  3 enges. The
of life, individual qua  17MADS  17MID  IT and their use in course focuses on the course focus on th	ity of life, city "smartness" assessment, legislation in Smart Cities, Smart Cities transformation, last mile logistics, e-commerce, new ap last mile logistics in cities and in regions.  Management of Transport Systems  Functions, processes and systems of management in transport, organisational structures, strategy, social responsibility, soft sk  Managerial Information Systems in Transport  building IS of modern transport company. New EU legislation on cyber security and data protection puts transport organizations in fe security of IS and possible sources of danger. The practical part deals with the process of building a new IS from the idea through to budget, the basic documents for the possible assignment of the contract.	KZ  KIIIs.  Z,ZK  ront of new challe the timetable and	ents, quality nile logistics 2  3 anges. The the financia
of life, individual qua  17MADS  17MID  IT and their use in	ity of life, city "smartness" assessment, legislation in Smart Cities, Smart Cities transformation, last mile logistics, e-commerce, new ap last mile logistics in cities and in regions.  Management of Transport Systems  Functions, processes and systems of management in transport, organisational structures, strategy, social responsibility, soft sk  Managerial Information Systems in Transport  building IS of modern transport company. New EU legislation on cyber security and data protection puts transport organizations in fe e 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 budget, the basic documents for the possible assignment of the contract.  Carriage Processes	KZ  KIIIs.  Z,ZK  ront of new challe	nents, quality mile logistics  2  3 enges. The
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17W2AM	Application of Marketing Tools in Transportation	KZ	3
Application of m	narketing principles in transport issues, marketing tools suitable for transport, case studies of the use of marketing in the sphere of p	ublic passenger t	ransport.
17W2FM	Financing in Urban Mass Transportation	KZ	3
UMT history and de	evelopment in Prague and other cities in the world. Building and operation of public tram, bus, and trolleybus networks. Underground	building and ope	ration. Other
UMT types. UMT d	evelopment in small towns. Particularities of investment and operation financing of individual UMT types. Historic and present mode	s of UMT financin	g. Transport
	inspection and blind passengers. Tourism & DMT. UMT typology & Dispersion of optimum financing.		
17XN4K	Seminar for Diploma Thesis	Z	8
17XNDM	Master Thesis for study programme LA	Z	18
18XN4K	Seminar for Diploma Thesis	Z	8
18XNDM	Master Thesis for study programme LA	Z	18
20XN4K	Seminar for Diploma Thesis	Z	8
20XNDM	Master Thesis for study programme LA	Z	18
21W2CR	CRM	KZ	3
Introduction to CRN	1. 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. Ir	nformation Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership & Decision Making. Communication. Leadership & Decision Making. Communication. Leadership & Decision Making. Communication.	Behaviour. Automa	ation.
21W2FM	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 resou	irces, depreciatio	n, retained
	earnings, shares, bonds, loans, leasing, capital. Financial and economic analysis of the company - structure and content.		
21W2MK	Marketing of Air Transport	KZ	3
Definition, purpose,	evolution, stages and types of marketing. Marketing in air transportation. Marketing research. Market segmentation. Airlines marketi	ng strategies. Airl	ne Products
	Yield management and revenues. Air transport market sales.		
21W2PP	Law and Operation in Air Transport	KZ	3
Development of avia	ation law. International conventions on civil aviation. International organisations and including of the CzechRepublic in these organis	ations. EU legisla	tion and civi
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	carriers for
	passengers, luggage and cargo. The safe transport of dangerous goods.		
21XN4K	Seminar for Diploma Thesis	Z	8
21XNDM	Master Thesis for study programme LA	Z	18
22XN4K	Seminar for Diploma Thesis	Z	8
22XNDM	Master Thesis for study programme LA	7	18

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