Recomended pass through the study plan

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

Faculty/Institute/Others:

Department:

Pass through the study plan: Master Full-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 full-time

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+8E	s 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+10E	B Z	Z
11LIP2	Linear Programming 2 Pavla Pecherková, Ivan Nagy, Karel Je men Pavla Pecherková Ivan Nagy (Gar.)	Z,ZK	3	2P+1C+10E	B Z	Z
17LSC	Logistics in Smart Cities Tomáš Horák Tomáš Horák (Gar.)	Z,ZK	6	2P+2C+14E	3 Z	Z
17MADS	Management of Transport Systems Roman Št rba Roman Št rba (Gar.)	KZ	2	2P+0C+8E	Z	Z
17TSI	Technology of Road Transport Michal Drábek, Vít Janoš, Rudolf Vávra, Daniel Drnec Michal Drábek (Gar.)	KZ	2	2P+0C+8E	3 Z	ZP
17TZND	Technology of Railway Transport Michal Drábek, Vít Janoš, Zden k Michl, Rudolf Vávra, Daniel Drnec Vít Janoš (Gar.)	Z,ZK	4	2P+2C	Z	Z
11TER	Game Theory and Optimal Decision-Making Magdalena Hykšová Magdalena Hykšová (Gar.)	ZK	2	2P+0C+8E	B Z	Z
15JCZ1	Czech Language for Foreign Students 1 Irena Veselková	Z	0	0P+2C	Z	Z
17TZOR	Inventory, Replacement and Scheduling Theory Dušan Teichmann Dušan Teichmann (Gar.)	Z,ZK	3	2P+1C	Z	J
X2-NP-LA-20/21	Projekty Mgr. prezen ní LA od 2020/21 11XN1,12XN1, (see the list of groups below)	Min. cours. 4 Max. cours. 4	Min/Max 13/13			ZP
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

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
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 Alexandra Dvo á ková, Petra Skolilová Petra Skolilová Petra Skolilová (Gar.)	Z,ZK	3	2P+1C+10B	L	ZP
14TEL	Telecommunications <i>Tomáš Zelinka, Radek Holý, Zden k Lokaj, Martin Šrotý Tomáš Zelinka Tomáš Zelinka</i> (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
15JCZ2	Czech Language for Foreign Students 2 Irena Veselková	Z	0	0P+2C	L	Z
17KMD	Quantitative Methods in Transport	Z,ZK	6	2P+2C	L	J
		Min. cours.				
X2-NP-LA-20/21	Projekty Mgr. prezen ní LA od 2020/21	4	Min/Max			70
AZ-INP-LA-20/21	11XN1,12XN1, (see the list of groups below)	Max. cours.	13/13			ZP
		4				
		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: 3

Number of Semi						
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
15JCZ3	Czech Language for Foreign Students 3 Irena Veselková	Z		0P+2C	Z	ZP
17AMAN	Application of Marketing Tools in Transport Industry Petra Skolilová Petra Skolilová (Gar.)	KZ	3	2P+0C	Z	J
17DOPM	Transportation Planning and Modeling Milan K iž	Z,ZK	6	2P+2C	Z	PV
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	V
17PPC	Carriage Processes Roman Št rba Roman Št rba (Gar.)	ZK	3	2P+0C	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	
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	
		Min. cours.				
X2-NP-LA-20/21	Projekty Mgr. prezen ní LA od 2020/21	4	Min/Max			ZP
7.E TH E1 (20/E)	11XÑ1,12XN1, (see the list of groups below)	Max. cours.	13/13			
		Min. cours.				
	Landar Managara and LA and 0000/04	4	Min/Max			
JZ-NP-LA-20/21	Jazyky Mgr. prezen ní LA od 2020/21 15J2F1,15J2I1, (see the list of groups below)	Max. cours.	8/8			J
		4				

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
15JCZ4	Czech Language for Foreign Students 4 Irena Veselková	Z		0P+2C	L	Z
15JBA4	Language - English 4 Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marje Michlová, Markéta Musilová, Jan Feit Eva Rezlerová	ZK	2	0P+2C+10B	L	ZP

X2-NP-LA-20/21	Projekty Mgr. prezen ní LA od 2020/21 11XN1,12XN1, (see the list of groups below)	Min. cours. 4 Max. cours. 4	Min/Max 13/13		ZP
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

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

Kód		Name of the grou	p of courses a cation see here	nd codes of members of this or below the list of courses)	Com	pletion	Credit	s Scope	Semester	Role
						cours.				
						4	Min/Ma	ax		
JZ-NP-	LA-20/21	Jazyk	y Mgr. prezen	ní LA od 2020/21	Max.	cours.	8/8			J
						4				
15J2F1	Language	- French 1	15J2l1	Language - Italian 1		15J2N1		Language - G	erman 1	
15J2R1	Language	- Russian 1	15J2S1	Language - Spanish 1		15JBF2		Language - Fi	ench 2	
15JBI2	Language	- Italian 2	15JBN2	Language - German 2		15JBR2		Language - R	ussian 2	
15JBS2	Language	- Spanish 2	15JBF3	Language - French 3		15JBI3	Ì	Language - Ita	alian 3	
15JBN3	Language	- German 3	15JBR3	Language - Russian 3		15JBS3		Language - S	panish 3	
15JBF4	Language	- French 4	15JBI4	Language - Italian 4		15JBN4	Ì	Language - G	erman 4	
15JBR4	Language	- Russian 4	15JBS4	Language - Spanish 4						
			•	•	Min.	cours.				
						4	Min/Ma	ax		
X2-NP-	LA-20/21	Projek	ty Mgr. prezen	ní LA od 2020/21	May	cours.	13/13			ZP
					IVIAX.		13/13	'		
						4				
11XN1	Master Pro	pject 1	12XN1	Master Project 1		14XN1		Master Projec	t 1	
1EVN11	Mostor Dro	inat 1	16VN11	Moster Project 1		17VN11		Montor Projec	4.4	

X2-NP	-LA-20/21	Projekty M	gr. prezen	ní LA od 2020/21	Max.	4 cours. 4	Min/Ma 13/13	×	ZP
11XN1	Master Project 1		12XN1	Master Project 1		14XN1	N	laster Project	1
15XN1	Master Project 1		16XN1	Master Project 1		17XN1	N	Master Project	1
18XN1	Master Project 1		20XN1	Master Project 1		21XN1	N	Master Project	1
22XN1	Master Project 1		23XN1	Master Project 1		11XN2	N	Master Project	2
12XN2	Master Project 2		14XN2	Master Project 2		15XN2	N	Master Project	2
16XN2	Master Project 2		17XN2	Master Project 2		18XN2	N	Master Project	2
20XN2	Master Project 2		21XN2	Master Project 2		22XN2	N	Master Project	2
23XN2	Master Project 2		11XN3	Master Project 3		12XN3	N	Master Project	3
14XN3	Master Project 3		15XN3	Master Project 3		16XN3	N	Naster Project	3
17XN3	Master Project 3		18XN3	Master Project 3		20XN3	N	Naster Project	3
21XN3	Master Project 3		22XN3	Master Project 3		23XN3	N	Naster Project	3
11XN4	Master Project 4		12XN4	Master Project 4		14XN4	N	Aaster Project	4
15XN4	Master Project 4		16XN4	Master Project 4		17XN4	N	Aaster Project	4
18XN4	Master Project 4		20XN4	Master Project 4		21XN4	N	Naster Project	4
22XN4	Master Project 4		23XN4	Master Project 4					

List of courses of this pass:

Code	Name of the course	Completion	Credits
11LIP2	Linear Programming 2	Z,ZK	3
Formulation of the	ask of integer programming, branch and bound method of numerical solution, problems about knapsack, travelling salesman, sets, loc	ation of stores and	post boxes,
	tasks of scheduling, heuristics, metaheuristics - genetic algorithms, ant colony optimization.		
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
practical tra	insportation 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
Decision-making to	neory, utility theory. Explicit form games, backward induction. Normal form games. Antagonistic conflict, matrix games. Repeated gam	es, evolutionary g	ame theory.
Cooperative gam	es without transferable payoffs. Cooperative games with transferable payoffs (imputation, core, Shapley value, nucleolus). Application	s of game theory a	above all in
	aganomics and transportation		

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11THRO	Queuing Theory	ZK	2
	ess, definition, random distribution, and probability. Basic processes, process of revitalisation. Markov process, Markov models, Kenda Is M/M/n. Non-markovian models, model M/C/n, models G/G/n. Models with continuous flow. Service net, examples of Petri net. Comp		nodel M/N
11XN1	Master Project 1	Z	2
11XN2	Master Project 2	Z	2
11XN3	Master Project 3	Z	1
11XN4	Master Project 4	Z	8
12XN1	Master Project 1	Z	2
12XN2	Master Project 2	 Z	2
12XN3	•	Z	1
	Master Project 3		1
12XN4	Master Project 4	Z	8
14BIG	Big Data	KZ	2
	duce. Basic Principles of Big Data Management. Comparison and Classification of NoSQL Databases. Key Database Value Database. C		
tabases. Graph	Databases-Basic Principles. Graph Databases-Advanced Aspects. Indexing. Interpretation. Advanced Principles Big Data Manageme	nt. NewSQL Data	ibase. Cl
	computing. Data warehouses and Big Data. Cloud computing. Data warehouses and Big Data. Other Big Data issues.		_
14GISS	Geographical Information Systems	KZ	2
Construction	n of saving format of space-oriented information land-survey and cartography minimum basic tasks of spatial operations principles of	territorial identific	ation
14TEL	Telecommunications	KZ	3
status quo and n	ew trends in telecommunications systems. Economical and legal aspects of telecommunications networks design and telecommunica	tions services pr	ovisionin
ntification and qu	antification of hlererchical telecommunications networks and telecommunication services performance based on addopted performance p	arameters, teleco	mmunica
	services typically applied within transport and specifically logistic solutions.		
14XN1	Master Project 1	Z	2
14XN2	Master Project 2	Z	2
14XN3	Master Project 3	Z	1
14XN4	Master Project 4	Z Z	
	,		3
15J2A1	Language - English 1	Z	2
P	resentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work e	ngagement.	
	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tech language of management.		
45 1014	language of management.		
15J2I1	language of management. Language - Italian 1	Z	2
rammatical Struc	language of management. Language - Italian 1 tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	Z feedback skills, s	2 ummaris
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17DOPM	Transportation Planning and Modeling	Z,ZK	6
	pols used within four step model (trip generation, trip distribution, mode choice and trip distribution). Mobility and availability in urban ar transportation planning and modelling.	,	ew trends for
17KMD	Quantitative Methods in Transport	Z,ZK	6
	es on the issue of the use of undirected graphs tree type, planar graphs and their coloring. Further distribution problems, facility location	•	
solved such as m	nodels of integer linear programming. Besides the use of exact methods there are described simple and also more sofisticated heuristic	s (metaheuristic	s) methods.
17LSC	Logistics in Smart Cities	Z,ZK	6
-	ties in time, city and region, mobility of city residents and movement of goods, sustainability as a concept, Smart Cities, city as a system	-	-
f life, individual qu	uality of life, city "smartness" assessment, legislation in Smart Cities, Smart Cities transformation, last mile logistics, e-commerce, new ap	proaches in last	mile logistics
4714400	last mile logisites in cities and in regions.	1/7	
17MADS	Management of Transport Systems	KZ	2
17MID	Functions, processes and systems of management in transport, organisational structures, strategy, social responsibility, soft sk Managerial Information Systems in Transport	Z,ZK	3
	in building IS of modern transport company. New EU legislation on cyber security and data protection puts transport organizations in fi		1
	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 t		-
	budget, the basic documents for the possible assignment of the contract.		
17PPC	Carriage Processes	ZK	3
	Domestic carriages, international carriages, nomenclature of goods, pricing, contracting, responsibility for damages.		1
17RKOP	Management of commercial projects in transport	Z.ZK	3
	(customer, activities, output - quality, time, money), project surroundings, location of the project (area analysis, traffic flows, authorization	on procedure), oi	ganizationa
	oject, sources of financing, customer-supplier relations, feasibility studies, sensitivity and multi-criteria analysis, financial and value ana		-
	changes.		
17RVIP	Public Project Management in Transport	Z,ZK	5
asic concepts of	project management in the public sector, used procedures and standards of project management, organizational structure in project man	nagement in the	public secto
	project and pre-project preparation in transport and transport infrastructure and their specifics, feasibility study and CBA, project eva	aluation.	1
17TSI	Technology of Road Transport	KZ	2
	erational, technical, logistic and safety conditions of road transport, basic transport technologies, special transport, international agreen		
parameters and s	specialization of transport, handling and loading/unloading means, maintenance, service and repairs of road vehicles, safety of road tra	nsport and choice	e of optima
	transport unit.		
17TZND	Technology of Railway Transport	Z,ZK	4
Track line capacit	ty assesment, model operational situation with a system running time between IPT-nodes, calculation of traction energy savings compa	ared with infrastr	ucture costs
for designing of fl	leeting crossing station, solving of capacity problem and blocking time in relation to train protection system, robustness of timetable, sy	stem concept of	freight train
	paths, guidelines for centralised operational traffic control and management.		_
17TZOR	paths, guidelines for centralised operational traffic control and management. Inventory, Replacement and Scheduling Theory	Z,ZK	3
17TZOR Inventory theory	paths, guidelines for centralised operational traffic control and management. Inventory, Replacement and Scheduling Theory - introduction, static models, deterministic dynamic models, stochastic dynamic models. Replacement theory - introduction, models for	Z,ZK r replacement of	3 items that
17TZOR Inventory theory	paths, guidelines for centralised operational traffic control and management. Inventory, Replacement and Scheduling Theory - introduction, static models, deterministic dynamic models, stochastic dynamic models. Replacement theory - introduction, models for replacement of items that fail completely. Scheduling theory - introduction, single machine scheduling problems, parallel n	Z,ZK r replacement of	3 items that
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17TZOR Inventory theory eteriorate with tim 17XN1 17XN2 17XN3 17XN4	paths, guidelines for centralised operational traffic control and management. Inventory, Replacement and Scheduling Theory y - introduction, static models, deterministic dynamic models, stochastic dynamic models. Replacement theory - introduction, models for ne, models for replacement of items that fail completely. Scheduling theory - introduction, single machine scheduling problems, parallel in flow shop scheduling problems and job shop scheduling problems. Master Project 1 Master Project 2 Master Project 3 Master Project 4	Z,ZK or replacement of nachine scheduli Z Z Z Z	3 items that ng problems 2 2 1 8
17TZOR Inventory theory eteriorate with tim 17XN1 17XN2 17XN3 17XN4 18XN1	paths, guidelines for centralised operational traffic control and management. Inventory, Replacement and Scheduling Theory y - introduction, static models, deterministic dynamic models, stochastic dynamic models. Replacement theory - introduction, models for ne, models for replacement of items that fail completely. Scheduling theory - introduction, single machine scheduling problems, parallel in flow shop scheduling problems and job shop scheduling problems. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Master Project 1	Z,ZK or replacement of nachine scheduli Z Z Z Z Z	3 items that ng problems 2 2 1 8 8 2
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17TZOR Inventory theory eleriorate with time 17XN1 17XN2 17XN3 17XN4 18XN1 18XN2 18XN3 18XN4 20XN1 20XN2 20XN3 20XN4	paths, guidelines for centralised operational traffic control and management. Inventory, Replacement and Scheduling Theory - introduction, static models, deterministic dynamic models, stochastic dynamic models. Replacement theory - introduction, models for replacement of items that fail completely. Scheduling theory - introduction, single machine scheduling problems, parallel in flow shop scheduling problems and job shop scheduling problems. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Master Project 1 Master Project 1 Master Project 2 Master Project 2 Master Project 3 Master Project 3 Master Project 3 Master Project 4 Master Project 3 Master Project 4 Master Project 4 Master Project 1 Master Project 1 Master Project 2 Master Project 1 Master Project 1 Master Project 2 Master Project 3 Master Project 2 Master Project 3 Master Project 4	Z,ZK or replacement of nachine scheduli Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	3 items that ng problem 2 2 1 8 2 2 1 8 8 2 2 1 1 8 8 8 2 2 1 1 8 8
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