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 Vít Fábera, František Kekula, Tomáš Janata, Zuzana Purkrábková Tomáš Janata Tomáš Janata (Gar.)	KZ	2	0P+2C+8E	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	Z	Z
11LIP2	Linear Programming 2 Pavla Pecherková, Ivan Nagy, Karel Je men Pavla Pecherková Ivan Nagy (Gar.)	Z,ZK	3	2P+1C+10E	Z	Z
17LSC	Logistics in Smart Cities Tomáš Horák Tomáš Horák (Gar.)	Z,ZK	6	2P+2C+14E	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	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	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 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
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
Λ2-NP-LA-20/21	11XN1,12XN1, (see the list of groups below)	Max. cours.	13/13			ZP
		4				
		Min. cours.				
	Jazuky Mar, prozon, pí l A od 2020/21	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: 3

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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
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. EX 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, Marie 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 gro group (for speci	oup of courses ar fication see here	nd codes of members of this or below the list of courses	Com	pletion	Credit	s Scope	Semester	Role
JZ-NP-LA	-20/21	Jazy	ky Mgr. prezen r	ní LA od 2020/21		cours. 4 cours. 4	Min/Ma	ıx		J
15J2F1	Language	- French 1	15J2l1	Language - Italian 1		15J2N1	<u> </u>	_anguage - G	erman 1	
15J2R1	Language	- Russian 1	15J2S1	Language - Spanish 1		15JBF2		_anguage - Fr	ench 2	
15JBI2	Language	- Italian 2	15JBN2	Language - German 2		15JBR2		_anguage - R	ussian 2	
15JBS2	Language	- Spanish 2	15JBF3	Language - French 3		15JBI3		_anguage - Ita	alian 3	
15JBN3	Language	- German 3	15JBR3	Language - Russian 3		15JBS3		_anguage - S	panish 3	
15JBF4	Language	- French 4	15JBI4	Language - Italian 4		15JBN4		_anguage - G	erman 4	
15JBR4	Language	- Russian 4	15JBS4	Language - Spanish 4						
X2-NP-LA	-20/21	Proje	kty Mgr. prezen	ní LA od 2020/21		cours. 4 cours.	Min/Ma			ZP

X2-NP	-LA-20/21	Projekty Mgr. prezen	ní LA od 2020/21	4 Max. cours.	Min/Max 13/13		ZP
11XN1	Master Project 1	12XN1	Master Project 1	14XN1	Ma	aster Project 1	
15XN1	Master Project 1	16XN1	Master Project 1	17XN1	Ma	aster Project 1	
18XN1	Master Project 1	20XN1	Master Project 1	21XN1	Ma	aster Project 1	
22XN1	Master Project 1	23XN1	Master Project 1	11XN2	Ma	aster Project 2	
12XN2	Master Project 2	14XN2	Master Project 2	15XN2	Ma	aster Project 2	
16XN2	Master Project 2	17XN2	Master Project 2	18XN2	Ma	aster Project 2	
20XN2	Master Project 2	21XN2	Master Project 2	22XN2	Ma	aster Project 2	
23XN2	Master Project 2	11XN3	Master Project 3	12XN3	Ma	aster Project 3	
14XN3	Master Project 3	15XN3	Master Project 3	16XN3	Ma	aster Project 3	
17XN3	Master Project 3	18XN3	Master Project 3	20XN3	Ma	aster Project 3	
21XN3	Master Project 3	22XN3	Master Project 3	23XN3	Ma	aster Project 3	
11XN4	Master Project 4	12XN4	Master Project 4	14XN4	Ma	aster Project 4	
15XN4	Master Project 4	16XN4	Master Project 4	17XN4	Ma	aster Project 4	
18XN4	Master Project 4	20XN4	Master Project 4	21XN4	Ma	aster 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 th	neory, utility theory. Explicit form games, backward induction. Normal form games. Antagonistic conflict, matrix games. Repeated gam	ies, evolutionary ga	ame theory.
Cooperative game	es without transferable payoffs. Cooperative games with transferable payoffs (imputation, core, Shapley value, nucleolus). Application	s of game theory a	bove all in
l	economics and transportation.		

4471100	O : F	717	
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	•	<u>Z</u>	1
	Master Project 3		
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	base. 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
tatus quo and n	ew trends in telecommunications systems. Economical and legal aspects of telecommunications networks design and telecommunica	ations 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
	•	<u>Z</u>	
14XN4	Master Project 4		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	engagement.	
	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tech language of management.		
15 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
	used within four step model (trip generation, trip distribution, mode choice and trip distribution). Mobility and availability in urban a transportation planning and modelling.		w trends fo
17KMD	Quantitative Methods in Transport	Z,ZK	6
	the issue of the use of undirected graphs tree type, planar graphs and their coloring. Further distribution problems, facility location	-	
solved such as mode	ls of integer linear programming. Besides the use of exact methods there are described simple and also more sofisticated heurist	ics (metaheuristics) methods.
17LSC	Logistics in Smart Cities	Z,ZK	6
-	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 quality	of life, city "smartness" assessment, legislation in Smart Cities, Smart Cities transformation, last mile logistics, e-commerce, new a last mile logisitcs in cities and in regions.	pproaches in last n	nile logistics
17MADS	Management of Transport Systems	KZ	2
THIADS	Functions, processes and systems of management in transport, organisational structures, strategy, social responsibility, soft s	I .	
17MID	Managerial Information Systems in Transport	Z,ZK	3
	uilding IS of modern transport company. New EU legislation on cyber security and data protection puts transport organizations in		-
ourse focuses on the	security of IS and possible sources of danger. The practical part deals with the process of building a new IS from the idea through budget, the basic documents for the possible assignment of the contract.	the timetable and	the financia
17PPC	Carriage Processes	ZK	3
17110	Domestic carriages, international carriages, nomenclature of goods, pricing, contracting, responsibility for damages.		0
17RKOP	Management of commercial projects in transport	Z,ZK	3
Business project (cus	tomer, activities, output - quality, time, money), project surroundings, location of the project (area analysis, traffic flows, authorizat	ion procedure), org	ganizationa
tructure of the projec	, sources of financing, customer-supplier relations, feasibility studies, sensitivity and multi-criteria analysis, financial and value ar	nalysis, manageme	nt of projec
	changes.		
17RVIP	Public Project Management in Transport	Z,ZK	5
	ect management in the public sector, used procedures and standards of project management, organizational structure in project management, organizational structure in project management and transport and transport in transport and transport in transport and transport in transport and transport in transport and		ublic secto
	roject and pre-project preparation in transport and transport infrastructure and their specifics, feasibility study and CBA, project e		_
17TSI	Technology of Road Transport onal, technical, logistic and safety conditions of road transport, basic transport technologies, special transport, international agree	KZ	2
-	onal, technical, logistic and salety conditions of road transport, basic transport technologies, special transport, international agree alization of transport, handling and loading/unloading means, maintenance, service and repairs of road vehicles, safety of road tr	•	
arameters and spec	transport unit.	ansport and enois	o or optime
17TZND	Technology of Railway Transport	Z,ZK	4
Track line capacity as	sesment, model operational situation with a system running time between IPT-nodes, calculation of traction energy savings comp	1 '	cture costs
for designing of fleeti	ng crossing station, solving of capacity problem and blocking time in relation to train protection system, robustness of timetable, s	ystem concept of t	reight train
	paths, guidelines for centralised operational traffic control and management.		
17TZOR	Inventory, Replacement and Scheduling Theory	Z,ZK	3
	troduction, static models, deterministic dynamic models, stochastic dynamic models. Replacement theory - introduction, models f	•	
eteriorate with time, r	nodels for replacement of items that fail completely. Scheduling theory - introduction, single machine scheduling problems, parallel	machine schedulir	ig problem
477/14	flow shop scheduling problems and job shop scheduling problems.	7	
17XN1	Master Project 1	Z	2
17XN2	Master Project 2	Z	2
17XN3	Master Project 3	Z	1
17XN4	Master Project 4	Z	8
18XN1	Master Project 1	Z	2
18XN2	Master Project 2	Z	2
18XN3	Master Project 3	Z	1
18XN4	Master Project 4	Z	8
20XN1	Master Project 1	Z	2
20XN2	Master Project 2	Z	2
001/110	Master Project 3	Z	1
20XN3			8
20XN3 20XN4	Master Project 4	Z	
	Master Project 4 Master Project 1	Z Z	2
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