Recomended pass through the study plan

Name of the pass: Master Full-Time LA from 2025/26

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+8B	Z	Z
15J2A1	Language - English 1 Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerová	Z	2	0P+2C+10B	Z	Z
11LIP2	Linear Programming 2 Pavla Pecherková, Ivan Nagy, Karel Je men Pavla Pecherková Ivan Nagy (Gar.)	Z,ZK	3	2P+1C+10B	Z	Z
17LSC	Logistics in Smart Cities Tomáš Horák Tomáš Horák (Gar.)	Z,ZK	6	2P+2C+14B	Z	Z
17MADS	Management of Transport Systems Roman Št rba Roman Št rba (Gar.)	KZ	2	2P+0C+8B	Z	Z
17TSI	Technology of Road Transport Michal Drábek, Vít Janoš, Rudolf Vávra, Daniel Drnec Michal Drábek (Gar.)	KZ	2	2P+0C+8B	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+8B	Z	Z
21TZOR	Inventory, Replacement and Scheduling Theory Dušan Teichmann	Z,ZK	3	2P+1C	Z	Z
15JCZ1	Czech Language for Foreign Students 1	Z	0	0P+2C	Z	Z
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
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
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
Y2-NP-LA-24/25	PVP-B Mgr. prezen ní LA od 2024/25 00Y2XN,17Y2AM, (see the list of groups below)	Min. cours. 3 Max. cours. 3	Min/Max 6/6			PV

Number of semester: 3

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
17AMAN	Application of Marketing Tools in Transport Industry Petra Skolilová Petra Skolilová (Gar.)	KZ	3	2P+0C	Z	Z
17DOPM	Transportation Planning and Modeling Milan K íž	Z,ZK	6	2P+2C	Z	Z
15JBA3	Language - English 3 Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerová,	Z	2	0P+2C+10B	Z	Z
17PPC	Carriage Processes Roman St rba Roman Št rba (Gar.)	ZK	3	2P+0C	Z	ZP
17RVIP	Public Project Management in Transport Alexandra Dvo á ková, Olga Mertlová, Daniel Pilát Olga Mertlová (Gar.)	Z,ZK	5	2P+2C+14B	Z	Z
11STS	Stochastic Systems Pavla Pecherková, Šárka Vorá ová, Evženie Uglickich, Natálie Blahitka, Michal Matowicki Pavla Pecherková Šárka Vorá ová (Gar.)	Z,ZK	4	2P+2C+14B	Z	Z
15JCZ3	Czech Language for Foreign Students 3 Irena Veselková	Z		0P+2C	Z	Z
		Min. cours.	Min/Max			
X2-NP-LA-20/21	Projekty Mgr. prezen ní LA od 2020/21 11XN1,12XN1, (see the list of groups below)	Max. cours.	13/13			ZP
		4	10,10			
		Min. cours.				
JZ-NP-LA-20/21	Jazyky Mgr. prezen ní LA od 2020/21	4	Min/Max			J
02 N -LM-20/21	15J2F1,15J2I1, (see the list of groups below)	Max. cours.	8/8			J
		4				
		Min. cours.				
Y2-NP-LA-24/25	PVP-B Mgr. prezen ní LA od 2024/25	3	Min/Max			PV
1 Z-INM-LA-Z4/ZD	00Y2XN,17Y2AM, (see the list of groups below)	Max. cours.	6/6			P۷
		3				

Number of semester: 4

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
15JBA4	Language - English 4 Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerová,	ZK	2	0P+2C+10B	L	Z
15JCZ4	Czech Language for Foreign Students 4 Irena Veselková	Z		0P+2C	L	Z
XD-NP-LA-21/22	DP Mgr. prezen ní LA od 2021/22 11XNDM,12XNDM, (see the list of groups below)	Min. cours. 1 Max. cours. 1	Min/Max 18/18			Z
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 group of	of courses ar	nd codes of members of this or below the list of courses)	Com	pletion	Credit	s Scope	Semester	Rol
		group (ioi opoomout	1011 000 11010	or solon the net or coursely		cours.				
I7.ND	LA-20/21	lamida. N		-(4	Min/Ma	ıx		J
JZ-INF-	LA-20/21	Jazyky IV	igr. prezen i	ní LA od 2020/21	Max.	cours.	8/8			J
						4				
5J2F1	Language	- French 1	15J2l1	Language - Italian 1		15J2N1	i l	_anguage - G	erman 1	
5J2R1	Language	- Russian 1	15J2S1	Language - Spanish 1		15JBF2	I	_anguage - Fr	ench 2	
5JBI2	Language	- Italian 2	15JBN2	Language - German 2		15JBR2	I	_anguage - R	ussian 2	
5JBS2	Language	- Spanish 2	15JBF3	Language - French 3		15JBI3	I	_anguage - Ita	alian 3	
5JBN3	Language	- German 3	15JBR3	Language - Russian 3		15JBS3	I	_anguage - S _l	panish 3	
5JBF4	Language	- French 4	15JBI4	Language - Italian 4		15JBN4	I	_anguage - G	erman 4	
5JBR4	Language	- Russian 4	15JBS4	Language - Spanish 4						
					Min.	cours.				
						4	Min/Ma	ıx		
X2-NP-	LA-20/21	Projekty I	Mgr. prezen	ní LA od 2020/21	May	cours.	13/13			ZP
					IVIAX.		13/13			
						4				
1XN1	Master Pro	ject 1	12XN1	Master Project 1		14XN1	1	Master Projec	t 1	
5XN1	Master Pro	ject 1	16XN1	Master Project 1		17XN1	ı	Master Projec	t 1	
8XN1	Master Pro	ject 1	20XN1	Master Project 1		21XN1	ı	Master Projec	t 1	
2XN1	Master Pro	ject 1	23XN1	Master Project 1		11XN2	ı	Master Projec	t 2	
2XN2	Master Pro	ject 2	14XN2	Master Project 2		15XN2	ı	Master Projec	t 2	
6XN2	Master Pro	ject 2	17XN2	Master Project 2		18XN2	1	Master Projec	t 2	
0XN2	Master Pro	ject 2	21XN2	Master Project 2		22XN2	ı	Master Projec	t 2	
3XN2	Master Pro	iject 2	11XN3	Master Project 3		12XN3	1	Master Projec	t 3	
	Master Pro	<u> </u>	11XN3 15XN3	Master Project 3 Master Project 3		12XN3 16XN3		Master Projec Master Projec		
4XN3		oject 3		<u>'</u>			1		t 3	
4XN3 7XN3	Master Pro	pject 3	15XN3	Master Project 3		16XN3	1	Master Projec	t 3 t 3	
4XN3 7XN3 11XN3	Master Pro	oject 3 oject 3 oject 3	15XN3 18XN3	Master Project 3 Master Project 3		16XN3 20XN3	1	Master Projec Master Projec	t 3 t 3 t 3	
23XN2 4XN3 17XN3 21XN3 11XN4 5XN4	Master Pro Master Pro Master Pro	oject 3 oject 3 oject 3 oject 3 oject 4	15XN3 18XN3 22XN3	Master Project 3 Master Project 3 Master Project 3		16XN3 20XN3 23XN3	1 1	Master Project Master Project Master Project	t 3 t 3 t 3	
4XN3 7XN3 11XN3 1XN4 5XN4	Master Pro Master Pro Master Pro Master Pro	oject 3 oject 3 oject 3 oject 3 oject 4 oject 4	15XN3 18XN3 22XN3 12XN4	Master Project 3 Master Project 3 Master Project 3 Master Project 4		16XN3 20XN3 23XN3 14XN4		Master Project Master Project Master Project Master Project	t 3 t 3 t 3 t 4	
4XN3 7XN3 21XN3 1XN4 5XN4 8XN4	Master Pro Master Pro Master Pro Master Pro Master Pro Master Pro	oject 3 oject 3 oject 3 oject 3 oject 4 oject 4	15XN3 18XN3 22XN3 12XN4 16XN4	Master Project 3 Master Project 3 Master Project 3 Master Project 4 Master Project 4		16XN3 20XN3 23XN3 14XN4 17XN4		Master Project Master Project Master Project Master Project Master Project	t 3 t 3 t 3 t 4	
4XN3 7XN3 21XN3 1XN4	Master Pro	oject 3 oject 3 oject 3 oject 3 oject 4 oject 4	15XN3 18XN3 22XN3 12XN4 16XN4 20XN4	Master Project 3 Master Project 3 Master Project 3 Master Project 4 Master Project 4 Master Project 4	Min.	16XN3 20XN3 23XN3 14XN4 17XN4		Master Project Master Project Master Project Master Project Master Project	t 3 t 3 t 3 t 4	
4XN3 7XN3 21XN3 1XN4 5XN4 8XN4	Master Pro	oject 3 oject 3 oject 3 oject 3 oject 4 oject 4	15XN3 18XN3 22XN3 12XN4 16XN4 20XN4	Master Project 3 Master Project 3 Master Project 3 Master Project 4 Master Project 4 Master Project 4	Min.	16XN3 20XN3 23XN3 14XN4 17XN4 21XN4	1	Master Projec Master Projec Master Projec Master Projec Master Projec Master Projec	t 3 t 3 t 3 t 4	
4XN3 7XN3 1XN3 1XN4 5XN4 8XN4 2XN4	Master Pro	oject 3 oject 3 oject 3 oject 3 oject 4 oject 4 oject 4	15XN3 18XN3 22XN3 12XN4 16XN4 20XN4 23XN4	Master Project 3 Master Project 3 Master Project 3 Master Project 4		16XN3 20XN3 23XN3 14XN4 17XN4 21XN4 Cours.	Min/Ma	Master Projec	t 3 t 3 t 3 t 4	z
4XN3 7XN3 1XN3 1XN4 5XN4 8XN4 2XN4	Master Pro	oject 3 oject 3 oject 3 oject 3 oject 4 oject 4 oject 4	15XN3 18XN3 22XN3 12XN4 16XN4 20XN4 23XN4	Master Project 3 Master Project 3 Master Project 3 Master Project 4 Master Project 4 Master Project 4		16XN3 20XN3 23XN3 14XN4 17XN4 21XN4	1	Master Projec	t 3 t 3 t 3 t 4	
4XN3 7XN3 1XN3 1XN4 5XN4 8XN4 2XN4	Master Pro	oject 3 oject 3 oject 3 oject 3 oject 4 oject 4 oject 4	15XN3 18XN3 22XN3 12XN4 16XN4 20XN4 23XN4	Master Project 3 Master Project 3 Master Project 3 Master Project 4		16XN3 20XN3 23XN3 14XN4 17XN4 21XN4 Cours.	Min/Ma	Master Projec	t 3 t 3 t 3 t 4	z
4XN3 7XN3 21XN3 1XN4 5XN4 8XN4	Master Pro	oject 3 oject 3 oject 3 oject 3 oject 4 oject 4 oject 4	15XN3 18XN3 22XN3 12XN4 16XN4 20XN4 23XN4	Master Project 3 Master Project 3 Master Project 3 Master Project 4	Max.	16XN3 20XN3 23XN3 14XN4 17XN4 21XN4 Cours. 1	Min/Ma	Master Project	t 3 t 3 t 3 t 4	

18XNDM		esis for study programm	20XNDM	Master Thesis for study program		21XNDM		Master Thesis	for study prog	gramm
22XNDM	Master The	esis for study programm	23XNDM	Master Thesis for study program	m					
					Min	. cours.				
						3	Min/Ma	ıx		
Y2-NP-I	_A-24/25	PVP-B N	lgr. prezen 🛚 r	ní LA od 2024/25	Max	. cours.	6/6			PV
					IVIG.		0,0			
						3				
00Y2XN		icipation in a scient	17Y2AM	Application of Marketing Tools i .		12Y2BM		,	Local Roads	
23Y2BP	Security C	lass	21Y2BS	Unmanned aircraft systems 2		14Y2C1		CATIA I		
14Y2C2	CATIA II		14Y2CS	Sensitivity of Systems		21Y2CR	(CRM		
12Y2DU	Transport i	n the Context of Sust	15Y2DN	Transportation Psychology in Ge		18Y2DC		Dynamics of T	ransport Rout	es and
18Y2EM	Electron m	icroscopy	16Y2EE	Emissions and Ergonomics of Ve	hi	17Y2FM	[]	Financing in l	Jrban Mass Tra	anspor
21Y2FM	Aviation Co	ompany Financial Manag	23Y2FB	Physics for Security Branches		18Y2FZ	[1	Physical foun	dation of mate	rials
15Y2HS	Road Trans	sport History	16Y2HP	Vehicle Hygiene		14Y2IS		ntelligent Sys	tems in Posta	Se
12Y2IS	Urban Net	works	14Y2JM	One-Chip Controllers		15Y2JH	,	Job Hunting in	n English	
14Y2KI	Capital Inv	estment in Transporta	16Y2KV	Car Body Design		12Y2KS		Rail Transport	in Settlement	s an
12Y2KE	Landscape	Ecology	21Y2LS	Air Traffic Services		11Y2LG	1	ogics of Eng	ineer's Judger	nent
23Y2MA	Risk Analy	sis and Management	21Y2MQ	Quality Management		15Y2MS	;	Sociology for	Managers	
21Y2MK	Marketing	of Air Transport	12Y2MH	Measurement and Modeling of T	raf	12Y2MI	ı	Jrban Engine	ering	
18Y2MP	Finite Elen	nent Method And Its Ap	16Y2MK	Quality Methods for Vehicles		12Y2MD	1	Methods of Tr	affic Regulatio	n an
17Y2MO	Internation	al Organisations in T	17Y2MS	Microsimulation of Railway Oper	a	17Y2MD	1	Modelling and	optimization of	on tr
21Y2MC	CNS Syste	ems Modelling	17Y2MT	Modern History for Engineering	S	12Y2MZ		Modernization	of Railway Li	nes a
12Y2NS	Shared Sp	ace Design	14Y2OP	Object Oriented Programming in	T	15Y2OZ	1	Health Protec	tion in Transpo	rtat
15Y2OF	Specialise	d French for Transport	18Y2OB	Optical Contactless Strain Meas	u	16Y2PG	(Computer Gra	aphics and Virt	ual Re
22Y2PS	Traffic Acc	idents Computer Simul	15Y2PT	Food in Transportation		23Y2PD		Practical vehi	cle dynamics	
15Y2PD	Practical S	panish for Transporta	21Y2PP	Law and Operation in Air Transp	o	20Y2PR	1	Prediction of t	ime series	
12Y2PV	Public tran	sport priority	14Y2PI	Process Information Systems in	T	14Y2PJ	(C++ Program	ming Languag	е
14Y2PH	CAD Interf	ace Programming	11Y2PM	Programming in MATLAB		21Y2PL	(Operational A	spects of Aero	drome .
15Y2PU	Publication	ns and Their Creation	12Y2RD	Realization of Transport Buildin .		17Y2RZ	(Control of Tra	nsport Process	ses
15Y2SP	Seminar o	n Political Philosophy	17Y2SJ	Network Timetabling on the Rail	v	16Y2ST	:	Special Techr	ologies in Trar	spor
16Y2SV	Special ted	chnologies in vehicle	18Y2SD	Reliability and Diagnostics, Exp		15Y2SR	:	Stylistics and	Rhetorics	
15Y2TS	Technician	and Contemporary Soci	20Y2TE	Technology of Electronic System	S	14Y2TU	1-	Telecommuni	cations Systen	ns and M
16Y2TT	Transporta	tion and Building Tech	23Y2TP	Creation of legal and technical		14Y2UI		Artificial Intell		
18Y2UB		iomechanics and Safety	23Y2VZ	Leadership and Human Resource		18Y2VC		Computationa	l Mechanics ir	Trans
23Y2VR	Cope with	Risks in Engineering B	15Y2ZA	Basic Principles of English Acad		12Y2ZK		Traffic Calmin	g	
23Y2ZM	<u> </u>	e Means and Methods		, , ,		1			•	

List of courses of this pass:

Code	Name of the course	Completion	Credits
00Y2XN	Active participation in a scientific project, workshop, short-term trip abroad	KZ	2
11LIP2	Linear Programming 2	Z,ZK	3
Formulation of the	lask 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	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
Cooperative game	es without transferable payoffs. Cooperative games with transferable payoffs (imputation, core, Shapley value, nucleolus). Application economics and transportation.	s of game theory a	ıbove all in
11THRO	Queuing Theory	ZK	2
•	cess, definition, random distribution, and probability. Basic processes, process of revitalisation. Markov process, Markov models, Kend 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		odel M/M/1
11XN1	Master Project 1	Z	2
11XN2	Master Project 2	Z	2
11XN3	Master Project 3	Z	1
11XN4	Master Project 4	Z	8
11XNDM	Master Thesis for study programme LA	Z	18
11Y2LG	Logics of Engineer's Judgement	KZ	2
Logical structure	of engineer's judgement, its propositional and predicative logical base. Solutions of logical tasks through the methods of truthfulness	and semantic analy	ysis charts.
	Venn's diagram method. Logical basis for network design for the solution of technical tasks.		
11Y2PM	Programming in MATLAB	KZ	2
To explain the prin	nciple of modelling and simulation, description of Matlab environment and its settings, optimization and program code debugging, dat	ta fitting and design	ning GUI in
	Matlab.		

modal split, traffic distribution to road network). Shock wave in traffic flow. Service levels and their traffic volumes. Acceleration noise. 12Y2MH Measurement and Modeling of Traffic Noise Measurement and calculation of noise from rail traffic. Measurement and calculation of noise from rail traffic noise in the CADNA A. 12Y2MZ Modernization of Railway Lines and Stations KZ 12Y2MZ Modernization of Railway Lines and Stations KZ Track geometrical characteristics on modernized railway lines. Superstructure and substructure on upgraded lines. Designing of railway stations. Bridges and trunnels D and realization of projects. Technical description of the tranzit corridors. 12Y2NS Shared Space Design KZ Introducing students to the concept of integrated use of public spaces by sharing space with all users. Active promotion of settlements and sustainable mobility in the put towns and critics. Analysis of implemented foreign examples, principles of zone design in the context of legal and technical requirements. Linking traffic engineering, urb and architecture in the process of designing quality public spaces. 12Y2PV Public transport priority Public transport priority Public transport priority Priority Priority Results of the repeature of sustainable mobility. Public transport priority (PTP) in strategic documents. PTP in the Czech Republic and abroad. Types of PTP measures. Relationship between Basics of public transport priority (PTP) in strategic documents			10VN11 Master Desirat 4	10VN14
12XNS Master Project 3 Z 12XNDM Master Thesis for study programme LA Z 12Y2BM Sacrifform of the Local Roads 12Y2BU Sacrifform of the Local Roads 12Y2BI Sacrifform of UN as public and technical infrastructure of Unities. Intellections (Invest technical standards of UN, intercliens technical): Not treated in transport Practical examples. 12Y2BI Sacrifform of UN as public and technical infrastructure of Unities. Intellections (Invest technical standards of UN, intercliens technical): Not treated the Local Roads 12Y2BI Sacrifform of UN as public and technical infrastructure of Unities. Intellections of UN as public and technical standards of UN, intercliens technical special standards of UN, intercliens technical standards of UN, intercliens technical special standards of UN, intercliens technical special standards of UN, intercliens technical standards and intercliens technical standards and packed technical standards an	2			
12XNDM Master Thesis for study programme LA Z 12Y2BM Safety on The Local Roads Safety on The Safety				
12YADM	1		,	
12Y2BM Safety on The Local Roads Scalescent of the point of view of safety. Transport in the point of view of safety. Transport in the Context of Sustainable transport control and regulation. Transport control and regulation of transport control and regulation. Transport control and regulation of the position of UN as public and exchical distinctions of UNI. Transport in Section Regulation of the Properties of the Proper	8		•	
Disastination of road accidents rates, social looses, Collision points, diagrams. Tools and methods for safer road transportation. Crossroads from the point of view of safety, right of way. Roundabouts, Pedestatin transport, cyclists. Traffile lights coordination. Transport control regulation. 12Y2DI Transport in the Context of Sustainable development and sustainable transport. Disables, Electromobility. New trends in transport. Practical examples. 12Y2IS Urban Networks Lyban Networks Lyban Networks Lyban Networks Landscape Ecology Landscape and the position of UN as public and technical infrastructure / utilities, methodology of the UN master planning, of UN design, UN coordination, UN install content of the properties of the prop	18		71 0	
12Y2DU Transport in the Context of Sustainability In Transport in the Context of Sustainability IX Z Definitions of sustainable transport, itsiciorical context, development in our country and in the world Sustainabile development and sustainable transport. Demand for transport I Y2Y2IS Urban Networks I Y2Y2IS Urban Networks I Y2Y2IS Urban Networks I Y2Y2IK Urban	2	1		
12Y2ID U Transport in the Context of Sustainability	ty. Psychologic	of view of safety. Ps		lassification of roa
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14Y2C1 CATIA I KZ	8		,	
	18		14XNDM Master Thesis for study programme LA	14XNDM
Fundaments of working with CATIA making basis parts and hadise Making OD sketches, geometric structure, and the indian and the control of the	2			
	ketches. Impo	lels from 2D sketch	Fundaments of working with CATIA, making basic parts and bodies. Making 2D sketches, geometric stucture, parametr	Fundaments of we
and export of made parts and bodies. Making assemble and visualization.			_	1.0000
14Y2C2 CATIA II KZ	Project makin			
Extension of basic course. Modeling compound bodies. Possibility of enumeration, comunications with other systems. Surface x solid bodies. Kinematic mechanism. Pro and project cooperation. Outputs of projects.	rioject makin	o mechanism. Proje		EXTENSION OF DASIG
14Y2CS Sensitivity of Systems KZ	2	K7		1/1/200
Design of systems with defined reliability. The impact of changing parameters and subsystems within a system. System sensitivity computing, definition of sensitivity fur	ı	1 1		
matrices and their usability in system design.	.anonono an	51 55/15/tivity full		_ coign or system
14Y2IS Intelligent Systems in Postal Services KZ	2	KZ	-	14Y2IS
The use of information systems in the postal services (ITIS, and POST, T + T, PS, KMP, DS), application of information technology in the processing of mail processin		1		
	ng nodes in th	mail processing no	The use of information systems in the postal services (1113, and 1031, 1 + 1, 13, Kinr, D3), application of information	

desk.

14Y2JM	One-Chip Controllers ollers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed	KZ	2 Chins
14Y2KI	Capital Investment in Transportation and Telecommunications Financial market, investment desicion making - long term goals and investment strategies, long term financing	KZ	2
14Y2OP Class, object, enca	Object Oriented Programming in Transport apsulation, inheritance, polymorphism, templates, retyping, stream, exceptions, repository, collections, virtual methods and classes. from microscopic simulation system, discrete event simulation, celular automata simulation and virtual life area.	KZ Problem cases wil	2 be chosen
14Y2PH ntroduction to CAD	CAD Interface Programming interface programming techniques with the help of LIST and VBA programming languages. Possibilities of proper objects (comman applications creation in CAD systems. Programming of cooperation with other applications (databases, spread-sheets).	KZ ds), dialogues, inte	2 erfaces, and
	Process Information Systems in Transportation etailed usage of transport information systems, e.g. EFC, ePurse and transport check-in systems for public transport with focus on a lented Architecture). Inforamtion systems implementation and operations description in the Czech Republic (technical and process)		•
14Y2PJ OOP philosophy and	C++ Programming Language d basics of C++ programming language. Class, object, constructor, destructor, inheritance, abstract class, virtual methods, exceptions, overloading, abstract data type implementation in C++.	KZ streams, method a	2 and operator
14Y2TU New trends in telecor	Telecommunications Systems and Multimedia mmunications namely applied in transport solutions, identification and quantification of telecommunications networks and services pe architecture, provissioning of guaranteed service quality, two generations of the handover principles.	KZ rformance based o	2 n redundan
14Y2UI Histo	Artificial Intelligence sory of artificial intelligence, knowledge, its representation including frames, state space search, constraints, genetic algorithms, made and artificial intelligence, knowledge, its representation including frames, state space search, constraints, genetic algorithms, made are also as a second of the constraints.	KZ chine learning.	2
15J2A1 Pre	Language - English 1 esentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work	Z engagement.	2
	Language - French 1 ures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills nt, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec language of management.		_
	Language - Italian 1 ures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills nt, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and techniques.		_
15J2N1	language of management. Language - German 1	Z	2
15J2R1 Grammatical Structu	nt, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec- language of management. Language - Russian 1 ures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills nt, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec-language of management.	Z, feedback skills, s	2 ummarising
	Language - Spanish 1 ures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills nt, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and teclinguage of management.		_
15JBA2	Language - English 2 esentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work	Z	2
15JBA3	Language - English 3 - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Op FCE, CAE.	Z	2 certificates
15JBA4 Presentation Skills	Language - English 4 - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Op FCE, CAE.	ZK tional courses for o	2 certificates
	Language - French 2 ures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills nt, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tecleration language of management.		_
	Language - French 3 stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of I communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work features. Practice of oral and written presentation.		_
· · · · · · · · · · · · · · · · · · ·	Language - French 4 stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of I communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work features. Practice of oral and written presentation.		_
	Language - Italian 2 ures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills nt, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec language of management.		_
	Language - Italian 3 stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of I communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work		

and perceptive and co 15JBN2 Grammatical Structure technical text content, secondary 15JBN3	Language - Italian 4 s. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language level and study focus at the Faculty.		
15JBN2 Grammatical Structure technical text content, s	Selection of conversation and professional topics based on the language level and study focus at the Faculty Improvement of la	ZK	2
15JBN2 Grammatical Structure technical text content,			_
Grammatical Structure technical text content, s	mmunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w features. Practice of oral and written presentation.	rith (professional) text and its
technical text content,	Language - German 2	Z	2
15JBN3	s and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, t		_
	structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tech language of management.	nnical registers a	and their use,
	Language - German 3	Z	2
Grammar and stylistics	s. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language level and study focus at the Faculty.		
and perceptive and co	mmunicative 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.		
15JBN4	Language - German 4 s. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lan	ZK	2
=	mmunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w		_
	features. Practice of oral and written presentation.	(,
15JBR2	Language - Russian 2	Z	2
	s and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, t		ū
technical text content,	structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tech	nnical registers a	and their use,
15JBR3	language of management. Language - Russian 3	Z	2
	ے s. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la	_	_
	mmunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w		
	features. Practice of oral and written presentation.		
15JBR4	Language - Russian 4	ZK	2
=	s. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lar		_
and perceptive and co	mmunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w features. Practice of oral and written presentation.	ith (professional) text and its
15JBS2	Language - Spanish 2	Z	2
	is and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, t	-	_
technical text content,	structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tech language of management.	nnical registers a	and their use,
15JBS3	Language - Spanish 3	Z	2
	s. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language level and study focus at the Faculty.	_	_
	mmunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w		
45 1504	features. Practice of oral and written presentation.		
15JBS4	Language - Spanish 4 s. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lan	ZK	2
•	s. Selection of conversation and professional topics based on the language level and study locus at the Faculty. Improvement of land municative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w		•
, ,	features. Practice of oral and written presentation.	u	,
15JCZ1	Czech Language for Foreign Students 1	Z	0
	Czech language, common communication situations, study, work, leisure time activities, introduction of myself, phonetics of Czech	h language, writi	ing skills.
15JCZ2	Czech Language for Foreign Students 2	Z	-
l l	Czech language, common communication situations, study, work, leisure time activities, introduction of myself, phonetics of Czecl		0
Basic structures of	One of the service of the Constant Otto de set of		0
l l	Czech Language for Foreign Students 3	h language, writi Z	0
Basic structures of 15JCZ3	Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology.	Z	0
Basic structures of			0
Basic structures of 15JCZ3	Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Czech Language for Foreign Students 4	Z	0
Basic structures of 15JCZ3 15JCZ4	Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Czech Language for Foreign Students 4 Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology.	Z	0 ing skills.
Basic structures of 15JCZ3 15JCZ4 15XN1	Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Czech Language for Foreign Students 4 Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Master Project 1	Z Z Z	0 ing skills.
Basic structures of 15JCZ3 15JCZ4 15XN1 15XN2	Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Czech Language for Foreign Students 4 Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Master Project 1 Master Project 2	Z Z Z Z Z	0 ing skills.
15JCZ4 15XN1 15XN2 15XN3	Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Czech Language for Foreign Students 4 Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Master Project 1 Master Project 2 Master Project 3	Z Z Z Z Z	0 ing skills.
15JCZ4 15JCZ4 15XN1 15XN2 15XN3 15XN4	Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Czech Language for Foreign Students 4 Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Master Project 1 Master Project 2 Master Project 3 Master Project 4	Z Z Z Z Z Z Z Z	0 ing skills. 2 2 1 8
15JCZ4 15JCZ4 15XN1 15XN2 15XN3 15XN4 15XNDM 15Y2DN	Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Czech Language for Foreign Students 4 Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Master Thesis for study programme LA Transportation Psychology in German Speaking Countries ler view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, getting	Z Z Z Z Z Z Z KZ	0 ing skills. 2 2 1 8 8 18 2
Basic structures of 15JCZ3 15JCZ4 15XN1 15XN2 15XN3 15XN4 15XNDM 15Y2DN Introduction into broad	Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Czech Language for Foreign Students 4 Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Master Thesis for study programme LA Transportation Psychology in German Speaking Countries ler view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, gettin in traffic, traffic accident, traffic psychology in the internet etc.)	Z Z Z Z Z Z KZ KZ ng of driving licer	0 ing skills. 2 2 1 8 8 18 2 2 2 2 10 ce, children
Basic structures of 15JCZ3 15JCZ4 15XN1 15XN2 15XN3 15XN4 15XNDM 15Y2DN Introduction into broad	Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Czech Language for Foreign Students 4 Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Master Thesis for study programme LA Transportation Psychology in German Speaking Countries ler view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, gettin in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History	Z Z Z Z Z Z KZ ng of driving licer	0 ing skills. 2 2 1 8 8 18 2 2 2 2 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Basic structures of 15JCZ3 15JCZ4 15XN1 15XN2 15XN3 15XN4 15XNDM 15Y2DN Introduction into broad	Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Czech Language for Foreign Students 4 Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Master Thesis for study programme LA Transportation Psychology in German Speaking Countries ler view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, gettin in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road traft. Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of road.	Z Z Z Z Z Z KZ ng of driving licer KZ ransport develop	0 oing skills. 2 2 1 8 8 18 2 2 chec, children 2 oment during
Basic structures of 15JCZ3 15JCZ4 15XN1 15XN2 15XN3 15XN4 15XNDM 15Y2DN Introduction into broad 15Y2HS Roads and road traffic 1st part of 20th century	Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Czech Language for Foreign Students 4 Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Master Thesis for study programme LA Transportation Psychology in German Speaking Countries ler view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, gettin in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road traffic Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of road History of road intercections, bridges and traffic control, development of road signs.	Z Z Z Z Z Z Z A Z KZ ang of driving licer KZ ransport develop d travelling in mo	0 oing skills. 2 2 1 8 8 18 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Basic structures of 15JCZ3 15JCZ4 15XN1 15XN2 15XN3 15XN4 15XNDM 15Y2DN Introduction into broad 15Y2HS Roads and road traffic 1st part of 20th century	Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Czech Language for Foreign Students 4 Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Master Thesis for study programme LA Transportation Psychology in German Speaking Countries ler view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, gettin in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road traft. Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of road History of road intercections, bridges and traffic control, development of road signs. Job Hunting in English	Z Z Z Z Z Z Z KZ ng of driving licer KZ ransport develop d travelling in mo	0 oing skills. 2 2 1 8 8 18 2 2 10 2 2 10 2 2 10 2 2 10 2 2 10 2 2 10 2 2 10 2 2 10 2 2 10 2 2 10 2 2 10 2 2 10 2 2 10 2 2 10 2 2 10 2 2 10 2 2 10 2 1
Basic structures of 15JCZ3 15JCZ4 15XN1 15XN2 15XN3 15XN4 15XNDM 15Y2DN Introduction into broad 15Y2HS Roads and road traffic 1st part of 20th century 15Y2JH The course provides a	Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Czech Language for Foreign Students 4 Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Master Thesis for study programme LA Transportation Psychology in German Speaking Countries ler view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, gettin in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road traffic Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of road History of road intercections, bridges and traffic control, development of road signs.	Z Z Z Z Z Z Z A Z A Z A Z A Z KZ A A A A	0 oing skills. 2 2 1 8 8 18 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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Basic structures of 15JCZ3 15JCZ4 15XN1 15XN2 15XN3 15XN4 15XNDM 15Y2DN Introduction into broad 15Y2HS Roads and road traffic 1st part of 20th century 15Y2JH The course provides a including sy 15Y2MS Sociological approace	Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Czech Language for Foreign Students 4 Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Master Project 4 Master Thesis for study programme LA Transportation Psychology in German Speaking Countries ler view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, getting in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road traffic control, development of road signs. Job Hunting in English a practical guide to applying for a job in English. The interview process is mapped out, with the course including skills practise for a pecifics for job-hunting in English. Students will also be introduced to the English vocabulary and phraseology necessary for a succession of Managers	Z Z Z Z Z Z Z Z X Z A S S S S S S S S S S S S S S S S S S	0 oing skills. 2 2 1 8 8 18 2 once, children 2 coment during odern period. 2 chis process, v. 2

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15Y2OZ	Health Protection in Transportation and EU	KZ	2
Health protection	in transportation in CR in the past and present. Conditions before 1989 and after, current legislature, future prospects. Harmonisation	of legislation wi	th other EU
45V0DD	members. Fundamental principles of health protection and support in selected EU countries.	1/7	
15Y2PD	Practical Spanish for Transportation communication skills, training of correct written expression of formal character, basic technical vocabulary, cultural specifics of the Spanish for Transportation	KZ	2
Development of	Terminology of transport and commerce.	dilisti speaking	odininos.
15Y2PT	Food in Transportation	KZ	2
-	the Interaction transportation and foodstuffs. The health risks. Hygienic safeguard. The practical examples from the Czech Republic and		1
	dining cars, work trains and other railroad equipment. Legislation.		
15Y2PU	Publications and Their Creation	KZ	2
Scientific texts type	bes. Footnotes and references. Exploration of facts. Quotations. Formal document layout. Working with information databases. Typogra	aphic principles.	ypographic
	editors - MS Word, Tex/LaTeX. Practical creation of simple scientific documents.		1
15Y2SP	Seminar on Political Philosophy	KZ	2
	Interpreting of philosophical texts, view of society, state and their system of government.		_
15Y2SR	Stylistics and Rhetorics	KZ	2
	and written expression as a means of human communication. Basic information about speech, articulation, oral and written language.		
	ng. Language semantics, language syntactic and the pragmatic aspect. Creative thought and its oral and written expression. Practice - Creative thought and its oral and written expression.		
15Y2TS	Technician and Contemporary Society 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 on a F	KZ	2
Wily to take on a n	Internet and in newspapers, what are the sights for, interest in public affairs - a hangover from the past?	C, it must be tru	e - ii s oii iii
15Y2ZA	Basic Principles of English Academic Writing and Abstract in English	KZ	2
	reating a phrasal bank according to students' specialisations, rhetorical analysis or texts/abstracts, drafting an abstract, providing e		1
16XN1	Master Project 1	Z	2
16XN2	Master Project 2	<u></u>	2
16XN3	Master Project 2 Master Project 3	<u>Z</u>	1
16XN4	Master Project 4	Z	8
16XNDM	Master Thesis for study programme LA	Z	18
16Y2EE		KZ	2
	Emissions and Ergonomics of Vehicles onomy of vehicles and the influence on man and nature. National and international law related to the hygiene. Noise and vibrations - s		_
_	ys of measuring, prevention, elimination. Exhausts - creation, measurement, reduction, non-regular fuels and drives. Ergonomy - sitting.		
•	reach. Condition - heating, ventilation, air-conditioning, filtration, tiredom.		
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17MID	Managerial Information Systems in Transport	Z,ZK	3
	n building IS of modern transport company. New EU legislation on cyber security and data protection puts transport organizations in		-
course focuses on t	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.		T
17PPC	Carriage Processes	ZK	3
	Domestic carriages, international carriages, nomenclature of goods, pricing, contracting, responsibility for damages.		
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, authorizati		_
structure of the proj	ject, sources of financing, customer-supplier relations, feasibility studies, sensitivity and multi-criteria analysis, financial and value an changes.	arysis, manageme	ent of project
17RVIP	Public Project Management in Transport	Z,ZK	5
	roject management in the public sector, used procedures and standards of project management, organizational structure in project management.		1
basic concepts of p	project and pre-project preparation in transport and transport infrastructure and their specifics, feasibility study and CBA, project events and pre-project preparation in transport and transport infrastructure and their specifics, feasibility study and CBA, project events and pre-project preparation in transport and transport infrastructure and their specifics, feasibility study and CBA, project events and pre-project preparation in transport and transport infrastructure and their specifics, feasibility study and CBA, project events are project preparation in transport and transport infrastructure and their specifics, feasibility study and CBA, project events are project preparation in transport and transport infrastructure and their specifics, feasibility study and CBA, project events are project preparation in transport and transport infrastructure and their specifics, feasibility study and CBA, project events are project preparation in transport in the project preparation in transport in the project events are project preparation in transport in the project preparation in transport in the project preparation in transport in the project preparation in the project preparation in transport in the project preparation		abile sector,
17TSI	Technology of Road Transport	KZ	2
	ational, technical, logistic and safety conditions of road transport, basic transport technologies, special transport, international agree		I .
parameters and sp	pecialization of transport, handling and loading/unloading means, maintenance, service and repairs of road vehicles, safety of road transport.	ansport and choice	e of optimal
	transport unit.		
17TZND	Technology of Railway Transport	Z,ZK	4
	assesment, model operational situation with a system running time between IPT-nodes, calculation of traction energy savings comp		
for designing of fle	eeting crossing station, solving of capacity problem and blocking time in relation to train protection system, robustness of timetable, s	ystem concept of f	reight train
.=\	paths, guidelines for centralised operational traffic control and management.		
17XN1	Master Project 1	Z	2
17XN2	Master Project 2	Z	2
17XN3	Master Project 3	Z	1
17XN4	Master Project 4	Z	8
17XNDM	Master Thesis for study programme LA	Z	18
17Y2AM	Application of Marketing Tools in Transportation	KZ	2
Application of r	narketing principles in transport issues, marketing tools suitable for transport, case studies of the use of marketing in the sphere of p	ublic passenger tr	ansport.
17Y2FM	Financing in Urban Mass Transportation	KZ	2
-	evelopment in Prague and other cities in the world. Building and operation of public tram, bus, and trolleybus networks. Underground		
UMT types. UMT o	development in small towns. Particularities of investment and operation financing of individual UMT types. Historic and present model	s of UMT financing	g. Transport
(T) (O) (D	inspection and blind passengers. Tourism & Damp; UMT. UMT typology & Damp; choice of optimum financing.	1/7	
17Y2MD	Modelling and optimization on transport networks	KZ	2
Coordination prob	lems on public transport networks, scheduling vehicles, design of control plans for light-controlled intersections including green wave modelling of advanced problems in distribution systems - exact, heuristic and metaheuristic principles of solving problems	_	e systems,
17Y2MO	International Organisations in Transportation	KZ	2
	tions in transport, UN, EEC UN, Intergovernmental organisations, EU Offices and Agencies, Conference of European Ministries of tr		1
orrianoriai roid	organisations of public transport, Air-Rail, railways, roads, air, waterways, forwarding and postal services.	aop 0.1,0a	
17Y2MS	Microsimulation of Railway Operation	KZ	2
	characteristics of simulation tools, creation of a simulation model of railway infrastructure, verification of a specific operational conce	pt on the given inf	rastructure,
adaptation of the in	frastructure model and modification to the infrastructure to allow the implementation of the proposed operational concept. Stability tes	sts and evaluations	s. Evaluation
	of sensitivity of the operational concept to delays.		
17Y2MT	Modern History for Engineering Students	KZ	2
•	from the 19. century history. Geopolitical situation in Europe explained on the examples of Great Britain, Germany and Austrian Emp		
American Civil W	/ar, transatlantic transportation development. Imperial China: Late Qing dynasty. Selected chapters from the 20. century history: From	Bellé Epoque to	Cold War.
47)/007	Czechoslovak historical myths.	1/7	
17Y2RZ	Control of Transport Processes transport system, decomposition, factors influencing control, quality diagnosis, methods of control, systems for decision making sup	KZ	2
medical bases,	transport system, decomposition, factors initidencing control, quality diagnosis, methods of control, systems for decision making sup- telematics.	port, risk of decisi	on making,
17Y2SJ	Network Timetabling on the Railway	KZ	2
	es. Capacity allocation, technological intervals in railway operation. Rules and regulations of train paths, running times, time adds and		1
•	Rules of train-diagramm creating. Timetables for more service-levels on the line. Construction slot conflicts between passenger- and		-
	relations and waiting times, timetables for lines under construction.	-	
18XN1	Master Project 1	Z	2
18XN2	Master Project 2	Z	2
18XN3	Master Project 3	Z	1
18XN4	Master Project 4	Z	8
18XNDM	Master Thesis for study programme LA	Z	18
18Y2DC	Dynamics of Transport Routes and Vehicles	KZ	2
	alculations of more mass systems. Analysis of the forces acting between the vehicle and transport route. Creation of dynamic models of		I
-	s with a finite number of degrees of freedom. Methods of stiffness constants and pliability constants. Fundamentals of vibration of bridg		-
	of oscillation. Experimental methods in dynamics.		
18Y2EM	Electron microscopy	KZ	2
	of electron microscopy, construction, control and maintenance of SEM, sample preparation, signal detection, types of detectors and		
analysis, quantific	ation of results and automation of data processing, energy dispersive X-ray microanalysis and other analytical methods in electron m	icroscopy. Evaluat	tion of data
	obtained from ED detector, practical examples of ED microanalysis on samples.		1
18Y2FZ	Physical foundation of materials' properties	KZ	2
Atomistic models, I	lattice defects influence on properties of materials, stiffness, plasticity, strength, fracture, fatigue, creep, corrosion, effects of environm	nent and loading o	n materials'
	behavior are the main discussed topics.		

18Y2MP	Finite Element Method And Its Application	KZ	2
	ical formulation of the Finite Element Method. Direct Stiffness Method used in structural mechanics. Evaluation of stiffness matrices for		
variational princ	ciples. Element formulation (bar and beam elements, CST, LST, quadrilateral, tetrahedral and brick elements). Natural coordinates, na isoparametric representation. Numerical integration. Introduction to dynamics. FEM programming.	atural shape functi	ons and
18Y2OB	Optical Contactless Strain Measurements	KZ	2
	lents will get theoretical knowledge and practical experience in optical strain measurement methods. Students will get experience with		1
	speed cameras for acquisition of suitable image data and with digital image correlation algorithms for displacements measurements	-	
18Y2SD	Reliability and Diagnostics, Experimental Methods	KZ	2
	ed on theoretical background and practical experience in the field of reliability of constructions, implementation of diagnostic procedur		
defects and determ	ination of residual life of structures. For this purpose, non-destructive methods of experimental mechanics (e. g. strain-gauge measure optical methods, including electron microscopy, will be used.	ment, photoelastic	cimetry) and
18Y2UB	Accident Biomechanics and Safety	KZ	2
	lethods of Medical Diagnostics - RTG, CT, MRI, US. Dynamics of traumatic events. Factors influencing the severity of an accident and		
	raffic. Pedestrian injuries. Injury in railway and air traffic accidents. Analysis of biomechanical events in accidents and their computation		
	treatment and rehabilitation. Protective elements and safety measures in transport.		
18Y2VC	Computational Mechanics in Transportation	KZ	2
-	work and variational principles in FEM. Bar shaped, planar and three - dimensional structures in FEM. FEM in statics and in dynamic elastoplastic and viscoelastic material. FEM in problems of biomechanics. Numerical analysis of structural parts with programme AN	=	-
20XN1	Master Project 1	Z	2
20XN2	Master Project 2	Z	2
20XN3	Master Project 3	Z	1
20XN4	Master Project 4	Z	8
20XNDM	Master Thesis for study programme LA	Z	18
20Y2PR	Prediction of time series	KZ	2
-	series prediction, meaning of prediction, basics of quantitative prediction. Methods for predictive quality evaluation, descriptive statistic		
prediction, predict	tion for general formula of loss function. Calculation and programming environment R. Regression models, basics of linear regression	, simple regressio	n. Multiple
	regression, statistical tests of linear dependence, selection of input variables.		
20Y2TE	Technology of Electronic Systems	KZ	2
Principle technolog	ies for an effective operation of electronically controlled systems. Maintaining, meassuring, optimization of safety and reliability of con technologies, printed circuits, assembly operations, interconnection and repairs technologiesusers and operators.	nplex systems. Sei	miconductor
21TZOR	Inventory, Replacement and Scheduling Theory	Z,ZK	3
	- introduction, static models, deterministic dynamic models, stochastic dynamic models. Replacement theory - introduction, models for	•	1
	e, models for replacement of items that fail completely. Scheduling theory - introduction, single machine scheduling problems, parallel	•	I
	flow shop scheduling problems and job shop scheduling problems.		
21XN1	Master Project 1	Z	2
21XN2	Master Project 2	Z	2
21XN3	Master Project 3	Z	1
21XN4	Master Project 4	Z	8
21XNDM	Master Thesis for study programme LA	Z	18
21Y2BS	Unmanned aircraft systems 2 manned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights beg	KZ	2
21Y2CR	CRM	KZ	2
	 M. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the huma		
	nformation Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership & Decision Making. Communication. Leadership & Decision Making. Communication.		
21Y2FM	Aviation Company Financial Management	KZ	2
Theories of corp	orate finance - financial statements, budget, forecast. Financial policy of the company. Financial resources - long-term financial resources	rces, depreciation	, retained
0.43/01.0	earnings, shares, bonds, loans, leasing, capital. Financial and economic analysis of the company - structure and content.		
21Y2LS	Air Traffic Services	KZ	2 story of ATS
All space structure	at USA and Czechoslovakia. ATS - Model of financing. Training Systém of Air Traffic Controllers. Future development of ATS		Sidiy di Al O
21Y2MC	CNS Systems Modelling	KZ	2
	ned as a set of model tasks in the field of communication navigation and surveillance systems in aviation, addressed using mathema		
	tools. A large part is devoted to air targets tracking, measurement-to-track association, track filtering and multisensor tracking	_	
21Y2MK	Marketing of Air Transport	KZ	2
	course "Marketing in air transport" is the management of activities and processes using available marketing tools and processes for a n of sales of goods and services in the aviation industry. In addition to the theoretical foundations of marketing, the lectures present s		
and implementation	and product analysis, creation of marketing strategies and planning.	ystems of market,	Competition
21Y2MQ	Quality Management	KZ	2
	nition. Pioneers in the field of quality. International quality organisations and quality promotion in the Czech Republic. Quality manage		1
management syste	ms. Integrated management systems. Risk management in the context of the requirements of ISO standards. Sectoral quality manager	nent systems. Con	nprehensive
047,02.	quality management, excellence models and corporate social responsibility. Quality audits.		
21Y2PL	Operational Aspects of Aerodromes	KZ	2
Operational aspec	ts of aerodromes. Location of aerodrome and orientation of runways. Requirements for apron. Capacity of airports runways and term conditions. Firefighting units. Protection against unlawful interference. Local transport connection. Environmental protection		nuer winter
21Y2PP	Law and Operation in Air Transport	KZ	2
	iation law. International conventions on civil aviation. International organisations and including of the Czech Republic in these organis		
•	on of state administration and state supervision in matters of civil aviation, in accordance with Act No. 49/1997 Col. Facilitation. Response	-	
	passengers, luggage and cargo. The safe transport of dangerous goods.		
22XN1	Master Project 1	Z	2
22XN2	Master Project 2	Z	2

22XN3	Master Project 3	Z	1
22XN4	Master Project 4	Z	8
22XNDM	Master Thesis for study programme LA	Z	18
22Y2PS	Traffic Accidents Computer Simulation and Analysis	KZ	2
Vehicle dynamics	simulation, multi body systems and vehicle active safety systems, vehicle slipping, external influence on virtual model, crash tests eva	aluation, single-tr	ack vehicle,
	vehicle passangers, pedestrian, traffic accident simulation and analysis.		
23XN1	Master Project 1	Z	2
23XN2	Master Project 2	Z	2
23XN3	Master Project 3	Z	1
23XN4	Master Project 4	Z	8
23XNDM	Master Thesis for study programme LA	Z	18
23Y2BP	Security Class	KZ	2
	ent topics include data management, data and text mining applications, terrorism informatics, deception and intent detection, terrorist		al network
•	analysis, crime analysis, cyber-infrastructure protection, transportation infrastructure security, and information assurance, among	others.	
23Y2FB	Physics for Security Branches	KZ	2
Grounds of phy	rsics of substances and phenomena at extreme conditions. Grounds of rheology. Physics of Earth's interior. Geophysics. Physics of at	mosphere. Applic	ations in
	dengineering branches directed to safety.		
23Y2MA	Risk Analysis and Management	KZ	2
Concept of risks ar	nd terms. Risk sources, definition of hazard, impacts and risks. Methods for identification, analysis, assessment and management of ri	sks. Risk engine	ering target
and good enginee	ering practice. Methods, tools and techniques for risk engineering. System of systems risk. Application of strategic and system approar development. Territorial, emergency and crisis planning. Human factor - its role.	ch for benefit of s	ecurity and
23Y2PD	Practical vehicle dynamics	KZ	2
Theory of vehicle	dynamics. Multibody vehicle modeling. Modeling with IPG CarMaker. Standard and development stage experiments with road vehicles	. Realization of ϵ	xperimenta
	measurements with passenger vehicles. Experiment evaluation.		
23Y2TP	Creation of legal and technical regulations	KZ	2
Creation of legis	elation, structure of the bills of law, legal process, compatibility with the EC law, the creation of technical standards and their publication	n, ÚNMZ (Czech	Office for
	standards, metrology and testing) in Czech Republic, organizations CEN, CENELEC and ETSI, the notification process.		
23Y2VR	Cope with Risks in Engineering Branches	KZ	2
ypes of engineerir	ng branches directed to risks, procedures used in risk engineering, ensuring the secured systems, ensuring the safe systems, ensuring	the safe system	s of systems
23Y2VZ	Leadership and Human Resource Development	ΚZ	2
	study of human resources, human resources management, corporate goals, strategies, cultural and ethical aspects. Team management	ent, communicati	_
		ent, communicati	_
Introduction to the 23Y2ZM	study of human resources, human resources management, corporate goals, strategies, cultural and ethical aspects. Team management strategy and planning in human resources, ethics and corporate culture, cross-cultural differences. The labor code. Introduction into proceed that the strategy and planning in human resources, ethics and corporate culture, cross-cultural differences. The labor code. Introduction into proceed that the strategy and planning in human resources, ethics and corporate goals, strategies, cultural and ethical aspects. Team management, corporate goals, strategies, cultural and ethical aspects. Team management strategies, cultural differences. The labor code. Introduction into process, ethics and corporate culture, cross-cultural differences. The labor code introduction into process and planning in human resources, ethics and corporate culture, cross-cultural differences.	ent, communicati protocols. KZ	on in teams
ntroduction to the 23Y2ZM distory and the pres	study of human resources, human resources management, corporate goals, strategies, cultural and ethical aspects. Team management strategy and planning in human resources, ethics and corporate culture, cross-cultural differences. The labor code. Introduction into proceed the strategy and planning in human resources, ethics and corporate culture, cross-cultural differences. The labor code. Introduction into proceed the strategy and planning in human resources, ethics and corporate culture, cross-cultural differences. The labor code. Introduction into proceed the strategy and planning in human resources, ethics and corporate goals, strategies, cultural and ethical aspects. Team management, corporate goals, strategies, cultural and ethical aspects. Team management, corporate goals, strategies, cultural and ethical aspects. Team management, corporate goals, strategies, cultural and ethical aspects. Team management, corporate goals, strategies, cultural and ethical aspects. Team management, corporate goals, strategies, cultural and ethical aspects. Team management, corporate goals, strategies, cultural and ethical aspects. Team management, corporate goals, strategies, cultural and ethical aspects. Team management, corporate goals, strategies, cultural and ethical aspects. Team management, corporate goals, strategies, cultural and ethical aspects. Team management, corporate goals, strategies, cultural and ethical aspects. Team management, corporate goals, strategies, cultural and ethical aspects. Team management, corporate goals, strategies, cultural and ethical aspects. Team management, corporate goals, strategies, cultural and ethical aspects. Team management, corporate goals, strategies, cultural and ethical aspects. Team management, corporate goals, strategies, cultural and ethical aspects. Team management, corporate goals, strategies, cultural and ethical aspects. Team management, corporate goals, strategies, cultural and ethical aspects. Team management, corporate goals, cultural and ethical aspects goals, cultu	ent, communication protocols. KZ es of collecting and	on in teams 2 nd evaluatin
ntroduction to the 23Y2ZM listory and the pres	study of human resources, human resources management, corporate goals, strategies, cultural and ethical aspects. Team management strategy and planning in human resources, ethics and corporate culture, cross-cultural differences. The labor code. Introduction into proceed that the strategy and planning in human resources, ethics and corporate culture, cross-cultural differences. The labor code. Introduction into proceed that the strategy and planning in human resources, ethics and corporate goals, strategies, cultural and ethical aspects. Team management, corporate goals, strategies, cultural and ethical aspects. Team management strategies, cultural differences. The labor code. Introduction into process, ethics and corporate culture, cross-cultural differences. The labor code introduction into process and planning in human resources, ethics and corporate culture, cross-cultural differences.	ent, communication protocols. KZ es of collecting and	on in teams 2 nd evaluatir

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