Recomended pass through the study plan

Name of the pass: Master Full-Time LA from 2023/24

Faculty/Institute/Others:

Department:

Pass through the study plan: Master Full-Time IS (joint degree) from 2023/24

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+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
17TZOR	Inventory, Replacement and Scheduling Theory Dušan Teichmann Dušan Teichmann (Gar.)	Z,ZK	3	2P+1C	Z	Z
15JCZ1	Czech Language for Foreign Students 1 Irena Veselková	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
17KMD	Quantitative Methods in Transport	Z,ZK	6	2P+2C	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
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-23/24	PVP-B Mgr. prezen ní LA od 2023/24 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 Iž	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	B Z	Z
17PPC	Carriage Processes Roman Št 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	3 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	B Z	Z
15JCZ3	Czech Language for Foreign Students 3 Irena Veselková	Z		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
Y2-NP-LA-23/24	PVP-B Mgr. prezen ní LA od 2023/24 00Y2XN,17Y2AM, (see the list of groups below)	Min. cours. 3 Max. cours. 3	Min/Max 6/6			PV

Number of semester: 4

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
15JBA4	Language - English 4 Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerová,	ZK	2	0P+2C+10B	L	Z
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 15J2F1,15J2l1, (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 group (for specific	o of courses an ation see here	nd codes of members of this or below the list of courses)	Com	pletion	Credits	Scope	Semester	Role
					Min.	cours. 4	Min/Ma	x		
JZ-NP-	LA-20/21	Jazyky	Mgr. prezen ı	ní LA od 2020/21	Мах.	cours.	8/8			J
5J2F1	Language	- French 1	15J2l1	Language - Italian 1		15J2N1	1	 .anguage - G	erman 1	
5J2R1		- Russian 1	15J2S1	Language - Spanish 1		15JBF2		anguage - Fr		
5JBI2	Language		15JBN2	Language - German 2		15JBR2		anguage - R		
5JBS2	0 0	- Spanish 2	15JBF3	Language - French 3		15JBI3		anguage - Ita		
5JBN3		- German 3	15JBR3	Language - Russian 3		15JBS3		anguage - Si		
5JBF4	Language	- French 4	15JBI4	Language - Italian 4		15JBN4	L	anguage - G	erman 4	
5JBR4		- Russian 4	15JBS4	Language - Spanish 4				3 0 -		
	0 0		I	1 0 0 1	Min.	cours.				
						4	Min/Ma	Y		
X2-NP-	LA-20/21	Projekt	y Mgr. prezen	ní LA od 2020/21	Max	cours.	13/13	^		ZP
					IVIAX.		13/13			
						4	ļ			
1XN1	Master Pro	•	12XN1	Master Project 1		14XN1		Naster Projec		
5XN1	Master Pro	•	16XN1	Master Project 1		17XN1		laster Projec		
8XN1	Master Pro	•	20XN1	Master Project 1		21XN1		laster Projec		
2XN1	Master Pro	•	23XN1	Master Project 1		11XN2		Master Projec		
2XN2	Master Pro	•	14XN2	Master Project 2		15XN2		Naster Projec		
6XN2	Master Pro		17XN2	Master Project 2		18XN2		Naster Projec		
0XN2	Master Pro	•	21XN2	Master Project 2		22XN2		Master Projec		
3XN2	Master Pro	<u> </u>	11XN3	Master Project 3		12XN3		Master Projec		
4XN3	Master Pro	•	15XN3	Master Project 3		16XN3		Aaster Projec		
7XN3	Master Pro	<u> </u>	18XN3	Master Project 3		20XN3		Master Projec		
1XN3	Master Pro	•	22XN3	Master Project 3		23XN3		Aaster Projec		
4 \/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Master Pro	•	12XN4	Master Project 4		14XN4		Aaster Projec		
	Master Pro	•	16XN4	Master Project 4		17XN4		Aaster Projec		
1XN4 5XN4	Master Pro	•	20XN4	Master Project 4		21XN4	I N	laster Projec	τ 4	
5XN4 8XN4	M4 D	lect 4	23XN4	Master Project 4	I					
5XN4 8XN4	Master Pro					cours.			1	
5XN4 8XN4 2XN4		, DD A	Mar prozon ní	I A ad 2021/22	wiin.	1	Min/Ma	x		7
5XN4 8XN4 22XN4	Master Pro	DP N	llgr. prezen ní	LA od 2021/22				x		z

15XNDM		esis for study programm	16XNDM	Master Thesis for study programm		7XNDN			s for study pro	
18XNDM		esis for study programm	20XNDM	Master Thesis for study programm		IXNDN	I 1	Master Thesis	s for study pro	gramm
22XNDM	Master The	esis for study programm	23XNDM	Master Thesis for study programm						
					Min. co	ours.				
					3		Min/Ma	¥		
Y2-NP-I	_A-23/24	PVP-B N	lgr. prezen r	ní LA od 2023/24	_			^		PV
			.		Max. c	ours.	6/6			
					3					
00Y2XN	Active part	ticipation in a scient	17Y2AM	Application of Marketing Tools i	12	2Y2BM	' [Safety on The	Local Roads	1
23Y2BP	Security C	lass	21Y2BS	Unmanned aircraft systems 2	14	1Y2C1	(CATIA I		
14Y2C2	CATIA II		14Y2CS	Sensitivity of Systems	2	1Y2CR	(CRM		
12Y2DU	Transport i	n the Context of Sust	15Y2DN	Transportation Psychology in Ger	18	3Y2DC		Dynamics of	Transport Rou	tes and
18Y2EM	Electron m	nicroscopy	16Y2EE	Emissions and Ergonomics of Veh	i 17	7Y2FM	F	inancing in l	Jrban Mass Tr	anspor
21Y2FM	Aviation Co	ompany Financial Manag	23Y2FB	Physics for Security Branches	18	3Y2FZ	F	Physical foun	dation of mate	rials
15Y2HS	Road Trans	sport History	16Y2HP	Vehicle Hygiene	14	1Y2IS	1	ntelligent Sys	stems in Posta	l Se
12Y2IS	Urban Net	works	14Y2JM	One-Chip Controllers	15	Y2JH		lob Hunting i	n English	
14Y2KI	Capital Inv	estment in Transporta	16Y2KV	Car Body Design	12	2Y2KS	F	Rail Transpor	t in Settlemen	ts an
12Y2KE	Landscape	Ecology	21Y2LS	Air Traffic Services	11	1Y2LG	L	ogics of Eng	ineer's Judge	ment
23Y2MA	Risk Analy	sis and Management	21Y2MQ	Quality Management	15	Y2MS	5	Sociology for	Managers	
21Y2MK	Marketing	of Air Transport	12Y2MH	Measurement and Modeling of Tra	f 12	2Y2MI	ι	Jrban Engine	ering	
18Y2MP	Finite Elen	nent Method And Its Ap	16Y2MK	Quality Methods for Vehicles	12	2Y2MD	N	Methods of Tr	affic Regulation	on an
17Y2MO	Internation	al Organisations in T	17Y2MS	Microsimulation of Railway Opera	17	7Y2MD	N	Modelling and	doptimization	on tr
21Y2MC	CNS Syste	ems Modelling	17Y2MT	Modern History for Engineering S	12	2Y2MZ	N	/lodernization	n of Railway L	ines a
12Y2NS	Shared Sp	ace Design	14Y2OP	Object Oriented Programming in T	· 15	Y2OZ	ŀ	Health Protect	tion in Transp	ortat
15Y2OF	Specialise	d French for Transport	18Y2OB	Optical Contactless Strain Measu	16	Y2PG	(Computer Gra	aphics and Vir	tual Re
22Y2PS	Traffic Acc	idents Computer Simul	15Y2PT	Food in Transportation	23	3Y2PD	F	Practical vehi	cle dynamics	
15Y2PD	Practical S	Spanish for Transporta	21Y2PP	Law and Operation in Air Transpo	20	Y2PR	F	Prediction of	time series	
12Y2PV	Public tran	sport priority	14Y2PI	Process Information Systems in T	14	1Y2PJ	(C++ Program	ming Languag	ge
14Y2PH	CAD Interf	ace Programming	11Y2PM	Programming in MATLAB	2	1Y2PL	(Operational A	spects of Aer	odrome
15Y2PU	Publication	ns and Their Creation	12Y2RD	Realization of Transport Buildin	17	7Y2RZ	(Control of Tra	nsport Proces	ses
15Y2SP	Seminar o	n Political Philosophy	17Y2SJ	Network Timetabling on the Railw	16	Y2ST	5	Special Techr	nologies in Tra	nspor
16Y2SV	Special ted	chnologies in vehicle	18Y2SD	Reliability and Diagnostics, Exp	15	Y2SR		Stylistics and	Rhetorics	
15Y2TS	Technician	and Contemporary Soci	20Y2TE	Technology of Electronic Systems		4Y2TU	1	elecommuni	cations Syster	ns and M
16Y2TT		tion and Building Tech	23Y2TP	Creation of legal and technical		1Y2UI	- I	Artificial Intell	igence	
18Y2UB	Accident B	Siomechanics and Safety	23Y2VZ	Leadership and Human Resource	De 18	3Y2VC		Computationa	al Mechanics i	n Trans
23Y2VR	Cope with	Risks in Engineering B	15Y2ZA	Basic Principles of English Acad	. 12	2Y2ZK	17	raffic Calmin	g	
23Y2ZM		e Means and Methods							-	

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 t	ask of integer programming, branch and bound method of numerical solution, problems about knapsack, travelling salesman, sets, loc tasks of scheduling, heuristics, metaheuristics - genetic algorithms, ant colony optimization.	ation of stores and	post boxes,
11STS	Stochastic Systems	Z,ZK	4
	s with the problems of mathematical modelling of dynamical systems, estimation od these models and their utilization for prediction. Insportation tasks. Mathematical theory roots from probability and mathematical statistics and they use the methods of the Bayesian		
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	above all in
11THRO	Queuing Theory	ZK	2
•	ess, definition, random distribution, and probability. Basic processes, process of revitalisation. Markov process, Markov models, Kend. 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. 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	of engineer's judgement, its propositional and predicative logical base. Solutions of logical tasks through the methods of truthfulness of Venn's diagram method. Logical basis for network design for the solution of technical tasks.	and semantic analy	ysis charts.

11Y2PM	Programming in MATLAB	KZ	2
To explain the prince	iple of modelling and simulation, description of Matlab environment and its settings, optimization and program code debugging, dat	l	- 1
	Matlab.		
12XN1	Master Project 1	Z	2
12XN2	Master Project 2	Z	2
12XN3	Master Project 3	Z	1
12XN4	Master Project 4	Z	8
12XNDM	Master Thesis for study programme LA	Z	18
12Y2BM	Safety on The Local Roads	KZ	2
	accidents rates, social looses. Collision points, diagrams. Tools and methods for safer road transportation. Crossroads from the point	1	_
	right of way. Roundabouts. Pedestrian transport, cyclists. Traffic lights coordination. Transport control and regulation.	o. view e. ca.c.y.	. cyc.iciogi
12Y2DU	Transport in the Context of Sustainability	KZ	2
	able transport, historical context, development in our country and in the world. Sustainable development and sustainable transport. D	l	1
	of transport. Examples of sustainable transport. Biofuels. Electromobility. New trends in transport. Practical examples.		
12Y2IS	Urban Networks	KZ	2
he importance and	the position of UN as public and technical infrastructure / utillities, metodology of the UN master planning, of UN design, UN coordi	nation, UN instal	llation and l
	operation (basic technical standards of UN, trenchless technologies for UN).		
12Y2KE	Landscape Ecology	KZ	2
Landscape ecolog	Landscape - definition, types, evolution. Landscape systems. Anthropogenic impacts on landscape. Methods using for evaluating	landscape. Fract	al geometr
	and its potential applications in landscape ecology. Landscape planning.		
12Y2KS	Rail Transport in Settlements and Regions	KZ	2
Modernization and	development of railway infrastructure in Czech Republic. Arrangement of railway networks and junctions. Suburban railway services	s. Network confiç	guration an
operat	on of metro systems. Network configuration and operation of tram systems. Special thematic lectures (rail transport in selected cou	ntries / regions).	
12Y2MD	Methods of Traffic Regulation and Prediction	KZ	2
asic ways of traffic	orognosis, traffic prognosis for large area (calculation of future traffic volumes, calculation of future traffic volumes between areas (ana	logical and synth	netic metho
	modal split, traffic distribution to road network). Shock wave in traffic flow. Service levels and their traffic volumes. Acceleration r		
12Y2MH	Measurement and Modeling of Traffic Noise	KZ	2
heoretical introduc	tion to noise from traffic. Noise from rail transport. Noise from road traffic. Measurement and calculation of noise from rail traffic. Me	asurement and	calculation
	noise from road traffic. Modelling of traffic noise in the CADNA A.		
12Y2MI	Urban Engineering	KZ	2
	ching aming on utilities storage in area, coordination engineering activities in area, arrangement of public space, concepement of p	ublic spaces.	
12Y2MZ	Modernization of Railway Lines and Stations	KZ	2
•	g. AGC and AGTC Agreement. AGC and AGTC railway network. Principles of modernization (conceptual papers, definitions of basic c	•	
Track geometrical of	haracteristics on modernized railway lines. Superstructure and substructure on upgraded lines. Designing of railway stations. Bridge	es and tunnels. D	Developme
	and realization of projects. Technical description of the tranzit corridors.		
12Y2NS	Shared Space Design	KZ	2
-	to the concept of integrated use of public spaces by sharing space with all users. Active promotion of settlements and sustainable		-
towns and cities. Ai	nalysis of implemented foreign examples, principles of zone design in the context of legal and technical requirements. Linking traffic	engineering, urb	oan plannin
40\(0D\(and architecture in the process of designing quality public spaces.	1/7	
12Y2PV	Public transport priority	KZ	2
	e backbone of sustainable mobility. Public transport priority (PTP) in strategic documents. PTP in the Czech Republic and abroad. Ty elationship between Basics of public transport stops and stations design. PTP measures and evaluation of their operation. Econom		
ii F i F iiieasuies. K	PTP. The process of preparing PTP measures.		niai enecis
	1 11. The process of preparing 1 11 measures.	iic and environne.	
12V2DD	Poplization of Transport Buildings		_
12Y2RD	Realization of Transport Buildings	KZ	2
ansport Buildings T	ypes. Project Documentation Types. Building Code. Land Permission and Building Permission Process. Building Process. Project Eco	KZ onomics. Project	2 Manageme
ansport Buildings 1	ypes. Project Documentation Types. Building Code. Land Permission and Building Permission Process. Building Process. Project Ecc Traffic Calming	KZ onomics. Project KZ	2 Manageme
ansport Buildings 1	ypes. Project Documentation Types. Building Code. Land Permission and Building Permission Process. Building Process. Project Ecc Traffic Calming calming. Solution of road network organization. Urban road layouts. Psychological and physical obstacles (measures of traffic calm	KZ onomics. Project KZ	2 Manageme
ansport Buildings 1 12Y2ZK Principles of traffic	ypes. Project Documentation Types. Building Code. Land Permission and Building Permission Process. Building Process. Project Ecc Traffic Calming calming. Solution of road network organization. Urban road layouts. Psychological and physical obstacles (measures of traffic calming Traffic calming measures in crossroads. Pedestrian zones. Residential streets and zones.	KZ chomics. Project KZ ling) and their co	2 Manageme 2 ombinations
ansport Buildings 1 12Y2ZK Principles of traffic	ypes. Project Documentation Types. Building Code. Land Permission and Building Permission Process. Building Process. Project Ecc Traffic Calming calming. Solution of road network organization. Urban road layouts. Psychological and physical obstacles (measures of traffic calm Traffic calming measures in crossroads. Pedestrian zones. Residential streets and zones. Big Data	KZ pnomics. Project KZ ing) and their co	2 Manageme 2 mbinations
ansport Buildings 1 12Y2ZK Principles of traffic 14BIG rinciple of MapRed	ypes. Project Documentation Types. Building Code. Land Permission and Building Permission Process. Building Process. Project Ecc Traffic Calming calming. Solution of road network organization. Urban road layouts. Psychological and physical obstacles (measures of traffic calm Traffic calming measures in crossroads. Pedestrian zones. Residential streets and zones. Big Data uce. Basic Principles of Big Data Management. Comparison and Classification of NoSQL Databases. Key Database Value Databases.	KZ conomics. Project KZ ning) and their co KZ Column Databas	Manageme 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
ansport Buildings 1 12Y2ZK Principles of traffic 14BIG rinciple of MapRed	Traffic Calming calming. Solution of road network organization. Urban road layouts. Psychological and physical obstacles (measures of traffic calming Traffic calming measures in crossroads. Pedestrian zones. Residential streets and zones. Big Data uce. Basic Principles of Big Data Management. Comparison and Classification of NoSQL Databases. Key Database Value Databases. atabases-Basic Principles. Graph Databases-Advanced Aspects. Indexing. Interpretation. Advanced Principles Big Data Management.	KZ conomics. Project KZ ning) and their co KZ Column Databas	Manageme 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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ansport Buildings 1 12Y2ZK Principles of traffic 14BIG rinciple of MapRediatabases. Graph D	Traffic Calming calming. Solution of road network organization. Urban road layouts. Psychological and physical obstacles (measures of traffic calming Traffic calming measures in crossroads. Pedestrian zones. Residential streets and zones. Big Data ace. Basic Principles of Big Data Management. Comparison and Classification of NoSQL Databases. Key Database Value Databases. atabases-Basic Principles. Graph Databases-Advanced Aspects. Indexing. Interpretation. Advanced Principles Big Data Management. Computing. Data warehouses and Big Data. Cloud computing. Data warehouses and Big Data. Other Big Data issues. Geographical Information Systems	KZ conomics. Project KZ ing) and their co KZ Column Databas ent. NewSQL Dat	Manageme 2 combinations 2 cess. Docum tabase. Clo
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14Y2CS	Constituity of Cystoms	KZ	2
	Sensitivity of Systems s with defined reliability. The impact of changing parameters and subsystems within a system. System sensitivity computing, definition		
Design of system	matrices and their usability in system design.	ii oi sensilivity lund	Ziioris ariu
14Y2IS	Intelligent Systems in Postal Services	KZ	2
	ation systems in the postal services (ITIS, and POST, T + T, PS, KMP, DS), application of information technology in the processing of	1	
	imizing logistics processes in the post. The appreciation of the real implementation of the Czech post in operation both in lectures and in	· -	
postai network, opt	desk.	Title flamework of t	ine practical
14Y2JM	One-Chip Controllers	KZ	2
	irollers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed	1 1	
14Y2KI	Capital Investment in Transportation and Telecommunications	KZ	2
14121(1	Financial market, investment desicion making - long term goals and investment strategies, long term financing	112	2
14Y2OP	Object Oriented Programming in Transport	KZ	2
	capsulation, 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.		
14Y2PH	CAD Interface Programming	KZ	2
Introduction to CA	D interface programming techniques with the help of LIST and VBA programming languages. Possibilities of proper objects (comman	ds), dialogues, inte	rfaces, and
	applications creation in CAD systems. Programming of cooperation with other applications (databases, spread-sheets).		
14Y2PI	Process Information Systems in Transportation	KZ	2
	detailed usage of transport information systems, e.g. EFC, ePurse and transport check-in systems for public transport with focus on a		
·	riented Architecture). Inforamtion systems implementation and operations description in the Czech Republic (technical and process)		nd visits.
14Y2PJ	C++ Programming Language	KZ	2
OOP philosophy ar	nd basics of C++ programming language. Class, object, constructor, destructor, inheritance, abstract class, virtual methods, exceptions,	streams, method a	ind operator
	overloading, abstract data type implementation in C++.		
14Y2TU	Telecommunications Systems and Multimedia	KZ	2
New trends in telec	ommunications namely applied in transport solutions, identification and quantification of telecommunications networks and services pe	rformance based or	n redundant
4.43701.11	architecture, provissioning of guaranteed service quality, two generations of the handover principles.	1/7	
14Y2UI	Artificial Intelligence	KZ	2
	story of artificial intelligence, knowledge, its representation including frames, state space search, constraints, genetic algorithms, made		
15J2A1	Language - English 1	Z	2
	resentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work	7	2
15J2F1	Language - French 1 ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills	. – .	2 Immorising
	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec		_
	language of management.		
15J2l1	Language - Italian 1	Z	2
	ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills	, feedback skills, st	ummarising
	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec		
	language of management.		
15J2N1	Language - German 1	Z	2
	ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills		_
technical text conto	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec	chnical registers an	d their use,
15 105 1	language of management.		
15J2R1	Language - Russian 1	Z	2
	ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec		-
lechnical text conti	and the entry presentations and meeting minutes, elementary metorics or loreign language and practical application, formal and ter- language of management.	Allilical registers an	u trieli use,
15J2S1	Language - Spanish 1	Z	2
	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills	1	
	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec		-
	language of management.	Ü	,
15JBA2	Language - English 2	Z	2
Р	resentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work	engagement.	
15JBA3	Language - English 3	Z	2
Presentation Skill	is - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Op	tional courses for c	ertificates
	FCE, CAE.		
15JBA4	Language - English 4	ZK	2
Presentation Skill	ls - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Op	tional courses for c	ertificates
	FCE, CAE.		
15JBF2	Language - French 2	Z	2
	ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills		_
technical text conti	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and ted language of management.	nnicai registers an	a their use,
15 IDE2		Z	2
15JBF3 Grammar and styl	Language - French 3 istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of I	1	
	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work		_
,	features. Practice of oral and written presentation.		
15JBF4	Language - French 4	ZK	2
	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of I	anguage structure	knowledge
and perceptive an	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work	with (professional)	text and its
	features. Practice of oral and written procentation		

15JBI2	Language - Italian 2	Z	2
	ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,		-
technical text conti	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tecl language of management.	ririicai registers a	and their use,
15JBI3	Language - Italian 3	Z	2
	listics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la	_	1
-	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w		_
	features. Practice of oral and written presentation.		
15JBI4	Language - Italian 4	ZK	2
	listics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		-
and perceptive an	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w features. Practice of oral and written presentation.	vith (professiona	I) text and its
15JBN2	Language - German 2	Z	2
	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	_	1
	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tecl		_
	language of management.		
15JBN3	Language - German 3	Z	2
-	listics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		-
and perceptive an	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w	vith (professional	l) text and its
45 1514	features. Practice of oral and written presentation.	717	
15JBN4	Language - German 4	ZK	2
-	listics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la Id communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w		_
Poloopiivo ali	features. Practice of oral and written presentation.	(p. 0100010110	., and 113
15JBR2	Language - Russian 2	Z	2
	ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	_	1
technical text conte	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tecl	hnical registers a	and their use,
	language of management.		
15JBR3	Language - Russian 3	Z	2
-	listics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		_
and perceptive an	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w	vith (professional	l) text and its
15JBR4	features. Practice of oral and written presentation.	ZK	2
	Language - Russian 4 listics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		1
		inguage siructur	c knowledge
	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w	vith (professional	I) text and its
and perceptive an	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w features. Practice of oral and written presentation.	vith (professional	l) text and its
15JBS2		vith (professiona	l) text and its
15JBS2	features. Practice of oral and written presentation.	Z	2
15JBS2 Grammatical Struc	features. Practice of oral and written presentation. Language - Spanish 2 ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tech	Z feedback skills,	2 summarising
15JBS2 Grammatical Structechnical text conte	features. Practice of oral and written presentation. Language - Spanish 2 ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tecl language of management.	Z feedback skills, hnical registers a	2 summarising and their use,
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15Y2MS	Sociology for Managers	KZ	2
	pach to a corporation. Corporation and its organization. Corporation and its running - human role and communication. Corporation, it		ial system.
	uman's work position in free market economy. Corporate directorship, work groups, adaptation, strife, different roles and positions in		1 0
15Y2OF	Specialised French for Transportation and Telecommunications	KZ	2
	rtation (public transport, railway, air, road and ship transport) and telecommunications terminology. Special focus on independent s		_
15Y2OZ	Health Protection in Transportation and EU in transportation in CR in the past and present. Conditions before 1989 and after, current legislature, future prospects. Harmonisation	KZ	2
nealth protection	members. Fundamental principles of health protection and support in selected EU countries.	i or legislation wi	ui ouiei Et
15Y2PD	Practical Spanish for Transportation	KZ	2
	communication skills, training of correct written expression of formal character, basic technical vocabulary, cultural specifics of the Sp		1
Bovolopinioni or	Terminology of transport and commerce.	odinon opodining	oodiiiiloo.
15Y2PT	Food in Transportation	KZ	2
	Interaction transportation and foodstuffs. The health risks. Hygienic safeguard. The practical examples from the Czech Republic and		1
no namaon poncy.	dining cars, work trains and other railroad equipment. Legislation.	nom alo wona.	1110 100000
15Y2PU	Publications and Their Creation	KZ	2
I I	es. Footnotes and references. Exploration of facts. Quotations. Formal document layout. Working with information databases. Typogra		1
71	editors - MS Word, Tex/LaTeX. Practical creation of simple scientific documents.		71 - 3 - 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
I I	ind written expression as a means of human communication. Basic information about speech, articulation, oral and written language		1
	g. Language semantics, language syntactic and the pragmatic aspect. Creative thought and its oral and written expression. Practice -		
15Y2TS	Technician and Contemporary Society	KZ	2
I	t 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		1
	Internet and in newspapers, what are the sights for, interest in public affairs - a hangover from the past?		
15Y2ZA	Basic Principles of English Academic Writing and Abstract in English	KZ	2
I I	creating 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	 Z	2
16XN3	•	Z Z	1
	Master Project 3		
16XN4	Master Project 4	Z	8
16XNDM	Master Thesis for study programme LA	Z	18
16Y2EE	Emissions and Ergonomics of Vehicles	KZ	2
_	nomy of vehicles and the influence on man and nature. National and international law related to the hygiene. Noise and vibrations - s	ources, creation,	propagation
hysical values, way	rs of measuring, prevention, elimination. Exhausts - creation, measurement, reduction, non-regular fuels and drives. Ergonomy - sitting	, standing, contro	l, operation
	reach. Condition - heating, ventilation, air-conditioning, filtration, tiredom.		
16Y2HP	reach. Condition - heating, ventilation, air-conditioning, filtration, tiredom. Vehicle Hygiene	KZ	2
16Y2HP missions and ergo	reach. Condition - heating, ventilation, air-conditioning, filtration, tiredom. Vehicle Hygiene nomy of vehicles and the influence on man and nature. National and international law related to the hygiene. Noise and vibrations - s	KZ ources, creation,	2 propagation
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16Y2HP missions and ergo nysical values, way 16Y2KV Personal cars be construction. Active	reach. Condition - heating, ventilation, air-conditioning, filtration, tiredom. Vehicle Hygiene nomy of vehicles and the influence on man and nature. National and international law related to the hygiene. Noise and vibrations - s of measuring, prevention, elimination. Exhausts - creation, measurement, reduction, non-regular fuels and drives. Ergonomy - sitting reach. Condition - heating, ventilation, air-conditioning, filtration, tiredom. Car Body Design ody, high-load car body, bus car body, and motorcycle as a construction set. Principles of design, production, testing and operation. Note and passive safety parts. Ergonomics, HMI, view out of the vehicle, operational extent, view behind the car. Conditioning tools, sign of the car body. Design and artistic design principles. Practical training.	KZ purces, creation, standing, contro KZ daterials used for aling function. As	propagation 2 2 car body erodynamic
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17KMD			
	Quantitative Methods in Transport	Z,ZK	6
	s on the issue of the use of undirected graphs tree type, planar graphs and their coloring. Further distribution problems, facility location	•	
	odels of integer linear programming. Besides the use of exact methods there are described simple and also more sofisticated heuristic		i
17LSC	Logistics in Smart Cities	Z,ZK	6
•	ies in time, city and region, mobility of city residents and movement of goods, sustainability as a concept, Smart Cities, city as a syste	•	
of life, individual qu	ality of life, city "smartness" assessment, legislation in Smart Cities, Smart Cities transformation, last mile logistics, e-commerce, new applications and in regions.	proacnes in last r	nile logistics,
4714450	last mile logisitos in cities and in regions.		
17MADS	Management of Transport Systems Functions, processes and systems of management in transport, organisational structures, strategy, social responsibility, soft sl	KZ	2
471410			
17MID	Managerial Information Systems in Transport in building IS of modern transport company. New EU legislation on cyber security and data protection puts transport organizations in f	Z,ZK	3
	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.		-
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
Business project (customer, activities, output - quality, time, money), project surroundings, location of the project (area analysis, traffic flows, authorization	on procedure), or	ganizational
structure of the pro	ject, sources of financing, customer-supplier relations, feasibility studies, sensitivity and multi-criteria analysis, financial and value an	alysis, manageme	ent of project
	changes.		1
17RVIP	Public Project Management in Transport	Z,ZK	5
Basic concepts of p	project management in the public sector, used procedures and standards of project management, organizational structure in project management		oublic sector,
	project and pre-project preparation in transport and transport infrastructure and their specifics, feasibility study and CBA, project ev		
17TSI	Technology of Road Transport	KZ _.	2
• .	rational, technical, logistic and safety conditions of road transport, basic transport technologies, special transport, international agreer		
parameters and s	pecialization of transport, handling and loading/unloading means, maintenance, service and repairs of road vehicles, safety of road transport unit	ansport and choic	e of optimal
47T7ND	transport unit.	7 71/	1
17TZND	Technology of Railway Transport y assesment, model operational situation with a system running time between IPT-nodes, calculation of traction energy savings comp	Z,ZK	4
	eeting crossing station, solving of capacity problem and blocking time in relation to train protection system, robustness of timetable, sy		
ioi designing of in	paths, guidelines for centralised operational traffic control and management.	/sterri concept or	neigni nam
17TZOR	Inventory, Replacement and Scheduling Theory	Z.ZK	3
	- introduction, static models, deterministic dynamic models, stochastic dynamic models. Replacement theory - introduction, models for	,	-
	ie, models for replacement of items that fail completely. Scheduling theory - introduction, single machine scheduling problems, parallel r	-	
	flow shop scheduling problems and job shop scheduling problems.		31 ,
17XN1	Master Project 1	Z	2
17XN2	Master Project 2	Z	2
17XN3	Master Project 3	Z	1
17XN3	Master Project 4	Z	8
	,		
17XNDM	Master Thesis for study programme LA	Z	18
17Y2AM	Application of Marketing Tools in Transportation marketing principles in transport issues, marketing tools suitable for transport, case studies of the use of marketing in the sphere of pu	KZ	2
		· •	
17Y2FM	Financing in Urban Mass Transportation		
	layolanment in Prague and other cities in the world Ruilding and energtion of public tram, bus, and trolloybus networks. Underground	KZ	2
UMT history and o	development in Prague and other cities in the world. Building and operation of public tram, bus, and trolleybus networks. Underground development in small towns. Particularities of investment and operation financing of individual LIMT types. Historic and present models	building and oper	ration. Other
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18Y2DC	Master Thesis for study programme LA	Z	18
	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 is with a finite number of degrees of freedom. Methods of stiffness constants and pliability constants. Fundamentals of vibration of bridge		-
40)/0514	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 d cation of results and automation of data processing, energy dispersive X-ray microanalysis and other analytical methods in electron mi		
analysis, quantine	obtained from ED detector, practical examples of ED microanalysis on samples.	orocopy. Evalue	allori or data
18Y2FZ	Physical foundation of materials' properties	KZ	2
	lattice defects influence on properties of materials, stiffness, plasticity, strength, fracture, fatigue, creep, corrosion, effects of environm behavior are the main discussed topics.		I
18Y2MP	Finite Element Method And Its Application	KZ	2
Basic mathemat	ical formulation of the Finite Element Method. Direct Stiffness Method used in structural mechanics. Evaluation of stiffness matrices for	or the basic elem	ents using
variational prin	ciples. Element formulation (bar and beam elements, CST, LST, quadrilateral, tetrahedral and brick elements). Natural coordinates, na	itural shape func	tions and
	isoparametric representation. Numerical integration. Introduction to dynamics. FEM programming.		1 -
18Y2OB	Optical Contactless Strain Measurements	KZ	2
	dents will get theoretical knowledge and practical experience in optical strain measurement methods. Students will get experience with		
18Y2SD	speed cameras for acquisition of suitable image data and with digital image correlation algorithms for displacements measurements a		2
	Reliability and Diagnostics, Experimental Methods sed on theoretical background and practical experience in the field of reliability of constructions, implementation of diagnostic procedure	KZ	I
	nination of residual life of structures. For this purpose, non-destructive methods of experimental mechanics (e. g. strain-gauge measure		
2000111	optical methods, including electron microscopy, will be used.	, ,	
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 t		affic acciden
Injuries in road	traffic. Pedestrian injuries. Injury in railway and air traffic accidents. Analysis of biomechanical events in accidents and their computation	onal modeling. Pr	rinciples of
	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 dynamics		-
	elastoplastic and viscoelastic material. FEM in problems of biomechanics. Numerical analysis of structural parts with programme ANS		
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
	e series prediction, meaning of prediction, basics of quantitative prediction. Methods for predictive quality evaluation, descriptive statistic		
prediction, predic	tion for general formula of loss function. Calculation and programming environment R. Regression models, basics of linear regression regression, statistical tests of linear dependence, selection of input variables.	, simple regressi	on. Multiple
20Y2TE	Technology of Electronic Systems	KZ	2
-	pies for an effective operation of electronically controlled systems. Maintaining, meassuring, optimization of safety and reliability of com		1
.,		iplex systems. Se	
	technologies, printed circuits, assembly operations, interconnection and repairs technologiesusers and operators.	nplex systems. Se	
21XN1			
	Master Project 1	Z	2
21XN1 21XN2 21XN3	Master Project 1 Master Project 2	Z Z	
21XN2 21XN3	Master Project 1 Master Project 2 Master Project 3	Z Z Z	2 2
21XN2 21XN3 21XN4	Master Project 1 Master Project 2 Master Project 3 Master Project 4	Z Z Z Z	2 2 1 8
21XN2 21XN3 21XN4 21XNDM	Master Project 1 Master Project 2 Master Project 3 Master Project 4 Master Thesis for study programme LA	Z Z Z Z Z	2 2 1 8 18
21XN2 21XN3 21XN4 21XNDM 21Y2BS	Master Project 1 Master Project 2 Master Project 3 Master Project 4 Master Thesis for study programme LA Unmanned aircraft systems 2	Z Z Z Z Z KZ	2 2 1 8 18 2
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21XN2 21XN3 21XN4 21XNDM 21Y2BS Modern trends in u 21Y2CR	Master Project 1 Master Project 2 Master Project 3 Master Project 4 Master Thesis for study programme LA Unmanned aircraft systems 2 nmanned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights bey	Z Z Z Z Z Z KZ wond the applicab	2 2 1 8 18 2 2 ble legislation 2
21XN2 21XN3 21XN4 21XNDM 21Y2BS Modern trends in u 21Y2CR ntroduction to CR	Master Project 1 Master Project 2 Master Project 3 Master Project 4 Master Thesis for study programme LA Unmanned aircraft systems 2 Inmanned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights bey CRM	Z Z Z Z Z KZ /ond the applicab KZ an body. Fatigue \$1	2 2 1 1 8 18 2 2 Sleep & amp
21XN2 21XN3 21XN4 21XNDM 21Y2BS Modern trends in u 21Y2CR ntroduction to CR	Master Project 1 Master Project 2 Master Project 3 Master Project 4 Master Thesis for study programme LA Unmanned aircraft systems 2 Inmanned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights bey CRM M. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the human	Z Z Z Z Z KZ /ond the applicab KZ an body. Fatigue \$1	2 2 1 1 8 18 2 2 Sleep & amp
21XN2 21XN3 21XN4 21XNDM 21Y2BS Modern trends in u 21Y2CR ntroduction to CR Vigilance. 21Y2FM	Master Project 1 Master Project 2 Master Project 3 Master Project 4 Master Thesis for study programme LA Unmanned aircraft systems 2 Inmanned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights bey CRM M. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the human formation Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership & Decision Baking. Leadership & Decision Baking. Leadership & Decision Baking. Leadership & Decision Baking. Leadership & Decision	Z Z Z Z X KZ /ond the applicab KZ an body. Fatigue S ehaviour. Automa	2 2 1 8 18 2 lele legislation 2 Sleep & ampation. 2
21XN2 21XN3 21XN4 21XNDM 21Y2BS Modern trends in u 21Y2CR Introduction to CR Vigilance. 21Y2FM Theories of corp	Master Project 2 Master Project 2 Master Project 3 Master Project 4 Master Thesis for study programme LA Unmanned aircraft systems 2 Inmanned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights bey CRM M. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the human lanformation Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership & Amp; Team Bernorate finance - financial statements, budget, forecast. Financial policy of the company. Financial resources - long-term financial resources are not content. Master Project 2 Master Project 3 Master Project 3 Master Project 3 Master Project 2 Master Project 2 Master Project 2 Master Project 3 Master Project 3 Master Project 3 Master Project 3 Master Project 4 Master Project 2 Master Project 3 Master Project 4 Master Project 3 Master Project 3 Master Project 3 Master Project 3 Master Project 4 Master Project 4 Master Project 3 Master Project 4 Master	Z Z Z Z X KZ /ond the applicab KZ an body. Fatigue sehaviour. Automa KZ rces, depreciation	2 1 8 18 2 lole legislation 2 Sleep & ampation. 2 n, retained
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21XN2 21XN3 21XN4 21XNDM 21Y2BS dodern trends in u 21Y2CR ntroduction to CR Vigilance. 21Y2FM Theories of corp	Master Project 2 Master Project 3 Master Project 4 Master Thesis for study programme LA Unmanned aircraft systems 2 Inmanned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights bey CRM M. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the human landormation Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership &	Z Z Z Z Z KZ /ond the applicab KZ an body. Fatigue S ehaviour. Automa KZ rces, depreciation KZ a ACC control. H	2 1 8 18 2 lele legislatio 2 Sleep & ampation. 2 n, retained 2
21XN2 21XN3 21XN4 21XNDM 21Y2BS dodern trends in u 21Y2CR ntroduction to CR Vigilance. 21Y2FM Theories of corp	Master Project 2 Master Project 3 Master Project 4 Master Project 4 Master Thesis for study programme LA Unmanned aircraft systems 2 Inmanned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights bey CRM M. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the human formation Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership & Decision Making. Communication	Z Z Z Z Z KZ yond the applicab KZ an body. Fatigue S ehaviour. Automa KZ rces, depreciation KZ a ACC control. H	2 1 8 18 2 cole legislatio 2 Sleep & ampation. 2 n, retained 2 distory of AT
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21XN2 21XN3 21XN4 21XNDM 21Y2BS Modern trends in u 21Y2CR ntroduction to CR Vigilance. 21Y2FM Theories of corp 21Y2LS hirspace structure 21Y2MC The course is designated.	Master Project 1 Master Project 2 Master Project 3 Master Project 4 Master Thesis for study programme LA Unmanned aircraft systems 2 Inmanned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights bey CRM M. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the human formation Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership & Decision Making. Communication Decision Making. Communicatio	Z Z Z Z KZ KZ vond the applicab KZ an body. Fatigue S ehaviour. Automa KZ rces, depreciation KZ a ACC control. H S KZ tical approaches g. KZ nalysis, strategy	2 1 8 18 2 cle legislatio 2 Sleep & ampation. 2 n, retained 2 distory of AT 2 and softwar
21XN2 21XN3 21XN4 21XNDM 21Y2BS Modern trends in u 21Y2CR Introduction to CR Vigilance. 21Y2FM Theories of corp 21Y2LS Airspace structure 21Y2MC The course is designated.	Master Project 1 Master Project 2 Master Project 3 Master Project 4 Master Thesis for study programme LA Unmanned aircraft systems 2 Inmanned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights bey CRM M. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the human Information Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership & Decision Making. Communication and decision Making. Communication and economic analysis of the company - structure and content. Air Traffic Services in Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, APP at USA and Czechoslovakia. ATS - Model of financing. Training Systém of Air Traffic Controllers. Future development of ATS CNS Systems Modelling gned as a set of model tasks in the field of communication navigation and surveillance systems in aviation, addressed using mathemat tools. A large part is devoted to air targets tracking, measurement-to-track association, track filtering and multisensor tracking. Marketin	Z Z Z Z KZ KZ vond the applicab KZ an body. Fatigue S ehaviour. Automa KZ rces, depreciation KZ a ACC control. H S KZ tical approaches g. KZ nalysis, strategy	2 1 8 18 2 clee legislation 2 Sleep & ampation. 2 n, retained 2 distory of AT 2 and softwar
21XN2 21XN3 21XN4 21XNDM 21Y2BS Modern trends in u 21Y2CR Introduction to CR Vigilance. 21Y2FM Theories of corp 21Y2LS Airspace structure 21Y2MC The course is designated in the content of the and implementation	Master Project 1 Master Project 2 Master Project 3 Master Project 4 Master Thesis for study programme LA Unmanned aircraft systems 2 Inmanned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights bey CRM M. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the human Information Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership & Decision Making. Communication. Leadership & Decision Maing. Communication of the Company. Financial resources - Ing. term. Decision Maing. Communication of the Company. Financial resources - Ing. term. Decision Maing. Communication of the Communication. Processes using available marketing tools and processes for an of sales of goods and services in the aviation industry. In addition to the theoretical foundations of marketing, the lectures present sy and product analysis, creation of marketing strategies and planning.	Z Z Z Z KZ KZ /ond the applicab KZ an body. Fatigue S ehaviour. Automa KZ rces, depreciation KZ a ACC control. H S KZ tical approaches g. KZ nalysis, strategy /stems of market	2 1 8 18 2 clee legislation 2 Sleep & ampation. 2 n, retained 2 distory of AT 2 and softwar
21XN2 21XN3 21XN4 21XNDM 21Y2BS Modern trends in u 21Y2CR ntroduction to CR Vigilance. 21Y2FM Theories of corp 21Y2LS Airspace structure 21Y2MC The course is desired. 21Y2MK The content of the und implementation 21Y2MQ	Master Project 2 Master Project 3 Master Project 4 Master Project 4 Master Project 4 Master Thesis for study programme LA Unmanned aircraft systems 2 Inmanned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights bey CRM M. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the humal Information Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership & Decision Making. Communication and surveil and economic analysis of the company - structure and content. Air Traffic Services in Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, APP at USA and Czechoslovakia. ATS - Model of financing. Training System of Air Traffic Controllers. Future development of ATS CNS Systems Modelling gned as a set of model tasks in the field of communication navigation and surveillance systems in aviation, addressed using mathemat tools. A large part is devoted to air targets tracking, measurement-to-track association, track filtering and multisensor tracking. Marketing of Air Transport course "Marketing in air trans	Z Z Z Z KZ KZ /ond the applicab KZ an body. Fatigue S ehaviour. Automa KZ rces, depreciation KZ a ACC control. H S KZ tical approaches g. KZ nalysis, strategy /stems of market	2 1 8 18 2 lele legislation 2 Sleep & ampation. 2 n, retained 2 and softwar 2 development, competitio
21XN2 21XN3 21XN4 21XNDM 21Y2BS Modern trends in u 21Y2CR ntroduction to CR Vigilance. 21Y2FM Theories of corp 21Y2LS Airspace structure 21Y2MC The course is desired. 21Y2MK The content of the und implementation 21Y2MQ History, basic def	Master Project 1 Master Project 2 Master Project 3 Master Project 4 Master Thesis for study programme LA Unmanned aircraft systems 2 Inmanned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights bey CRM M. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the human information Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership & Decision Making. Communication and economic analysis of the company - structure and content. Air Traffic Services in Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, APP at USA and Czechoslovakia. ATS - Model of financing. Training Systém of Air Traffic Controllers. Future development of ATS CNS Systems Modelling gned as a set of model tasks in the field of communication navigation and surveillance systems in aviation, addressed using mathemat tools. A large part is devoted to air targets tracking, measurement-to-track association, track filtering and multisensor tracking. Marketing of Air Transport course "Marketing in air transport" is the management of activit	Z Z Z Z KZ KZ /ond the applicab KZ an body. Fatigue sehaviour. Automa KZ rces, depreciation KZ a ACC control. H i. KZ tical approaches g. KZ nalysis, strategy /stems of market KZ ment system. En	2 18 18 20le legislation 2 Sleep & ampation. 2 In, retained 2 development, competition 2 expression of AT 2 competition 2 compet

21Y2PL	Operational Aspects of Aerodromes	KZ	2
Operational aspects	s of aerodromes. Location of aerodrome and orientation of runways. Requirements for apron. Capacity of airports runways and tern	າ ninals. Operation ເ	under winter
	conditions. Firefighting units. Protection against unlawful interference. Local transport connection. Environmental protection	า.	
21Y2PP	Law and Operation in Air Transport	KZ	2
•	tion law. International conventions on civil aviation. International organisations and including of the Czech Republic in these organis	•	
aviation. Execution	n of state administration and state supervision in matters of civil aviation, in accordance with Act No. 49/1997 Col. Facilitation. Resp	onsibilities of air o	carriers for
	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 s	imulation, multi body systems and vehicle active safety systems, vehicle slipping, external influence on virtual model, crash tests evants and second control of the contro	<i>,</i> 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
The most prevaler	nt topics include data management, data and text mining applications, terrorism informatics, deception and intent detection, terroris	and criminal soci	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 phys	ics of substances and phenomena at extreme conditions. Grounds of rheology. Physics of Earth's interior. Geophysics. Physics of a	atmosphere. Applic	cations in
	dengineering branches directed to safety.		1
23Y2MA	Risk Analysis and Management	KZ	2
•	d terms. Risk sources, definition of hazard, impacts and risks. Methods for identification, analysis, assessment and management of	•	
and good engineer	ing practice. Methods, tools and techniques for risk engineering. System of systems risk. Application of strategic and system approx	ach for benefit of s	security and
00)/000	development. Territorial, emergency and crisis planning. Human factor - its role.	1/7	
23Y2PD	Practical vehicle dynamics /namics. Multibody vehicle modeling. Modeling with IPG CarMaker. Standard and development stage experiments with road vehicle	KZ	2
Theory or verticle dy	measurements with passenger vehicles. Experiment evaluation.	s. Realization of e	жреннена
23Y2TP	Creation of legal and technical regulations	KZ	2
	ation, structure of the bills of law, legal process, compatibility with the EC law, the creation of technical standards and their publicati		_
ordation or logicit	standards, metrology and testing) in Czech Republic, organizations CEN, CENELEC and ETSI, the notification process.	on, onne (0200n	011100 101
23Y2VR	Cope with Risks in Engineering Branches	KZ	2
	pranches directed to risks, procedures used in risk engineering, ensuring the secured systems, ensuring the safe systems, ensuring		_
23Y2VZ	Leadership and Human Resource Development	KZ	2
-	tudy of human resources, human resources management, corporate goals, strategies, cultural and ethical aspects. Team managen	I	_
	strategy and planning in human resources, ethics and corporate culture, cross-cultural differences. The labor code. Introduction into		
23Y2ZM	Intelligence Means and Methods	KZ	2
distory and the prese	ent of intelligence services and their role in the modern world. How intelligence services handle with information. Methods and procedu	ires of collecting a	nd evaluatin
nformation. Means o	of intelligence services. Internal and external intelligence, military intelligence. The means and methods of state security services. C	ooperation among	g Intelligenc
	services within NATO, EU. The organization of the intelligence services.		

For updated information see http://bilakniha.cvut.cz/en/FF.html Generated: day 2025-08-11, time 11:45.