Study plan

Name of study plan: navaz. mag. PRE program LA 22/23 (nová akreditace)

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch:

Program of study: Logistics and Transport Processes Control

Type of study: Follow-up master full-time

Required credits: 120 Elective courses credits: 0 Sum of credits in the plan: 120

Note on the plan:

Name of the block: Compulsory courses Minimal number of credits of the block: 93

The role of the block: Z

Code of the group: 1.S.NPLA 20/21

Name of the group: 1.sem.nav.prez (od) 20/21 - program LA

Requirement credits in the group: In this group you have to gain 26 credits

Requirement courses in the group: In this group you have to complete 9 courses

Credits in the group: 26 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
11LIP2	Linear Programming 2 Ivan Nagy, Karel Je men Ivan Nagy Ivan Nagy (Gar.)	Z,ZK	3	2P+1C+10B	Z	Z
11TER	Game Theory and Optimal Decision-Making Magdalena Hykšová Magdalena Hykšová (Gar.)	ZK	2	2P+0C+8B	Z	Z
17LSC	Logistics in Smart Cities Tomáš Horák	Z,ZK	6	2P+2C+14B	Z	Z
17TZND	Technology of Railway Transport Zden k Michl, Vít Janoš Vít Janoš (Gar.)	Z,ZK	4	2P+2C	Z	Z
17TZOR	Inventory, Replacement and Scheduling Theory Dušan Teichmann Dušan Teichmann (Gar.)	Z,ZK	3	2P+1C	Z	Z
14GISS	Geographical Information Systems František Kekula, Tomáš Janata, Zuzana Purkrábková Tomáš Janata Tomáš Janata (Gar.)	KZ	2	0P+2C+8B	Z	Z
17MADS	Management of Transport Systems Roman Št rba, Veronika Faifrová	KZ	2	2P+0C+8B	Z	Z
17TSI	Technology of Road Transport Michal Drábek	KZ	2	2P+0C+8B	Z	Z
15J2A1	Language - English 1 Barbora Horá ková, Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Marek Tome ek, Markéta Musilová,	Z	2	0P+2C+10B	Z	Z

Cooperative games without transferable payoffs. Cooperative games with transferable payoffs (imputation, core, Shapley value, nucleolus). Applications of game theory above all in economics and transportation.

17LSC Logistics in Smart Cities Z,ZK 6

Development of cities in time, city and region, mobility of city residents and movement of goods, sustainability as a concept, Smart Cities, city as a system and its components, quality of life, individual quality of life, city "smartness" assessment, legislation in Smart Cities, Smart Cities transformation, last mile logistics, e-commerce, new approaches in last mile logistics, last mile logisitics in cities and in regions.

17TZND	Technology of Railway Transport	Z,ZK	4			
Track line capacity assessment, model operational situation with a system running time between IPT-nodes, calculation of traction energy savings compared with infrastructure of						
for designing of fleeting	crossing station, solving of capacity problem and blocking time in relation to train protection system, robustness of timetable,	system concept	of freight train			
paths, guidelines for cer	ntralised operational traffic control and management.					
17TZOR	Inventory, Replacement and Scheduling Theory	Z,ZK	3			
Inventory theory - introd	uction, static models, deterministic dynamic models, stochastic dynamic models. Replacement theory - introduction, models	for replacement of	of items that			
deteriorate with time, mo	odels for replacement of items that fail completely. Scheduling theory - introduction, single machine scheduling problems, paral	llel machine sche	duling problems,			
flow shop scheduling pr	oblems and job shop scheduling problems.					
14GISS	Geographical Information Systems	KZ	2			
Construction of saving f	ormat of space-oriented information land-survey and cartography minimum basic tasks of spatial operations principles of ter	itorial identification	n			
17MADS	Management of Transport Systems	KZ	2			
Functions, processes ar	nd systems of management in transport, organisational structures, strategy, social responsibility, soft skills.					
17TSI	Technology of Road Transport	KZ	2			
Legislative, operational,	technical, logistic and safety conditions of road transport, basic transport technologies, special transport, international agree	ments, requireme	ents on the			
parameters and special	zation of transport, handling and loading/unloading means, maintenance, service and repairs of road vehicles, safety of road	I transport and ch	oice of optimal			
transport unit.						
15J2A1	Language - English 1	Z	2			
Presentation Skills - exp	ert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.	•				

Code of the group: 2.S.NPLA 20/21

Name of the group: 2.sem.nav.prez (od) 20/21 - program LA

Requirement credits in the group: In this group you have to gain 24 credits

Requirement courses in the group: In this group you have to complete 8 courses

Credits in the group: 24 Note on the group:

NOTE OU THE (<u> </u>					
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
11THRO	Queuing Theory Šárka Vorá ová Šárka Vorá ová Šárka Vorá ová (Gar.)	ZK	2	2P+0C+8B	L	Z
17KMD	Quantitative Methods in Transport Dušan Teichmann, Denisa Mocková Denisa Mocková (Gar.)	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 Petra Skolilová, Alexandra Dvo á ková Petra Skolilová Petra Skolilová (Gar.)	Z,ZK	3	2P+1C+10B	L	Z
14BIG	Big Data Jana Kaliková, Jan Kr ál Jana Kaliková Jana Kaliková (Gar.)	KZ	2	0P+2C+8B	L	Z
14TEL	Telecommunications <i>Tomáš Zelinka, Radek Holý, Zden k Lokaj, Martin Šrotý Tomáš Zelinka Tomáš Zelinka</i>	KZ	3	2P+1C+10B	L	Z
17DOCH	Travel Behavior Vít Janoš, Milan K íž Vít Janoš (Gar.)	KZ	3	3P+0C+10B	L	Z
15JBA2	Language - English 2 Barbora Horá ková, Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Marek Tome ek, Markéta Musilová,	Z	2	0P+2C+10B	L	Z

Characteristics of the courses of this group of Study Plan: Code=2.S.NPLA 20/21 Name=2.sem.nav.prez (od) 20/21 - program LA

11THRO Queuing Theory ZK 2

Discrete event process, definition, random distribution, and probability. Basic processes, process of revitalisation. Markov process, Markov models, Kendall classification, model M/M/1,

models M/M/n. Non-markovian models, model M/C/n, models G/G/n. Models with continuous flow. Service net, examples of Petri net. Computer simulation.

17KMD Quantitative Methods in Transport Z,ZK 6
The course focuses on the issue of the use of undirected graphs tree type, planar graphs and their coloring. Further distribution problems, facility location problems are formulated and solved such as models of integer linear programming. Besides the use of exact methods there are described simple and also more sofisticated heuristics (metaheuristics) methods.

17MID Managerial Information Systems in Transport Z,ZK 3

IT and their use in building IS of modern transport company. New EU legislation on cyber security and data protection puts transport organizations in front of new challenges. The course focuses on the security of IS and possible sources of danger. The practical part deals with the process of building a new IS from the idea through the timetable and the financial budget, the basic documents for the possible assignment of the contract.

17RKOP Management of commercial projects in transport

Business project (customer, activities, output - quality, time, money), project surroundings, location of the project (area analysis, traffic flows, authorization procedure), organizational structure of the project, sources of financing, customer-supplier relations, feasibility studies, sensitivity and multi-criteria analysis, financial and value analysis, management of project

changes.

14BIG Big Data KZ 2
Principle of MapReduce. Basic Principles of Big Data Management. Comparison and Classification of NoSQL Databases. Key Database Value Database. Column Databases. Document

Databases. Graph Databases-Basic Principles of Big Data Management. Comparison and Classification (Nocal Databases New Databases Value Databases. Column Databases. Document Databases. Graph Databases-Basic Principles. Graph Databases-Advanced Aspects. Indexing. Interpretation. Advanced Principles Big Data Management. NewSQL Databases. Cloud computing. Data warehouses and Big Data. Cloud computing. Data warehouses and Big Data issues.

14TEL Telecommunications

KZ 3

Status quo and new trends in telecommunications systems. Economical and legal aspects of telecommunications networks design and telecommunications services provisioning, identification and quantification of hiererchical telecommunications networks and telecommunication services performance based on addopted performance parameters, telecommunication services typically applied within transport and specifically logistic solutions.

Code of the group: 3.S.NPLA 22/23

Name of the group: 3.sem.nav.prez (od) 22/23 - program LA

Requirement credits in the group: In this group you have to gain 23 credits

Requirement courses in the group: In this group you have to complete 6 courses

Credits in the group: 23 Note on the group:

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Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
11STS	Stochastic Systems Šárka Vorá ová, Evženie Uglickich, Natálie Blahitka, Michal Matowicki, Pavla Pecherková Pavla Pecherková Šárka Vorá ová (Gar.)	Z,ZK	4	2P+2C+14E	Z	Z
17DOPM	Transportation Planning and Modeling Milan K íž, Ond ej P ibyl	Z,ZK	6	2P+2C	Z	Z
17PPC	Carriage Processes Roman St rba	ZK	3	2P+0C	Z	Z
17RVIP	Public Project Management in Transport Alexandra Dvo á ková, Olga Mertlová, Daniel Pilát Olga Mertlová (Gar.)	Z,ZK	5	2P+2C+14E	3 Z	Z
17AMAN	Application of Marketing Tools in Transport Industry Petra Skolilová Petra Skolilová (Gar.)	KZ	3	2P+0C	Z	Z
15JBA3	Language - English 3 Barbora Horá ková, Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Eva Rezlerová	Z	2	0P+2C+10E	s z	Z

Characteristics of the courses of this group of Study Plan: Code=3.S.NPLA 22/23 Name=3.sem.nav.prez (od) 22/23 - program LA

Onaracteristics of	the courses of this group of Study Flan. Code=3.3.NFLA 22/23 Name=3.5em.nav.prez (od)	ZZIZS - prog	ani LA				
11STS	Stochastic Systems	Z,ZK	4				
The subject deals with t	he problems of mathematical modelling of dynamical systems, estimation od these models and their utilization for prediction.	The results are il	lustrated on				
practical transportation tasks. Mathematical theory roots from probability and mathematical statistics and they use the methods of the Bayesian probabilistic approach.							
17DOPM	17DOPM Transportation Planning and Modeling Z,ZK 6						
Basic steps and tools us	sed within four step model (trip generation, trip distribution, mode choice and trip distribution). Mobility and availability in urbai	n areas, land use	. New trends for				
transportation planning	and modelling.						
17PPC	Carriage Processes	ZK	3				
Domestic carriages, inte	ernational carriages, nomenclature of goods, pricing, contracting, responsibility for damages.						
17RVIP	Public Project Management in Transport	Z,ZK	5				
Basic concepts of project	t management in the public sector, used procedures and standards of project management, organizational structure in project	management in t	he public sector,				
project and pre-project	preparation in transport and transport infrastructure and their specifics, feasibility study and CBA, project evaluation.						
17AMAN	Application of Marketing Tools in Transport Industry	KZ	3				
Strategic marketing plan	s. Implementation of marketing campaigns. Branding and brand promotion. Multimedia presentations. Direct marketing and re	lated lead genera	ition campaigns.				
15JBA3	Language - English 3	Z	2				
Presentation Skills - exp	Presentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement. Optional courses for certificates						
FCE, CAE.							

Code of the group: 4.S.NPLA 21/22

Name of the group: 4.sem.nav.prez (od) 21/22 - program LA

Requirement credits in the group: In this group you have to gain 2 credits

Requirement courses in the group: In this group you have to complete 1 course

Credits in the group: 2 Note on the group:

Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their Code Completion Credits Scope Semester Role members) Tutors, authors and guarantors (gar.) Language - English 4 15JBA4 ZK 2 0P+2C+10B L Barbora Horá ková, Jitka He manová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerová 7

Characteristics of the courses of this group of Study Plan: Code=4.S.NPLA 21/22 Name=4.sem.nav.prez (od) 21/22 - program LA

15JBA4	Language - English 4	ZK	2
Presentation Skills - exp	ert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.	Optional courses for	or certificates
FCE. CAE.			

Code of the group: XNDP LA 21/22

Name of the group: Diplomová práce program LA (od) 21/22

Requirement credits in the group: In this group you have to gain 18 credits Requirement courses in the group: In this group you have to complete 1 course

Credits in the group: 18 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
11XNDM	Master Thesis for study programme LA	Z	18	0P+20C+70E	3 L	Z
12XNDM	Master Thesis for study programme LA	Z	18	0P+20C+70E	B L	Z
14XNDM	Master Thesis for study programme LA	Z	18	0P+20C+70E	B L	Z
15XNDM	Master Thesis for study programme LA	Z	18	0P+20C+70E	B L	Z
16XNDM	Master Thesis for study programme LA	Z	18	0P+20C+70E	B L	Z
17XNDM	Master Thesis for study programme LA Tomáš Horák, Zden k Michl, Vít Janoš, Rudolf Vávra, Dušan Teichmann, Roman Št rba, Veronika Faifrová, Michal Drábek, Denisa Mocková, Václav Baroch (Gar.)	Z	18	(P+20C+70E	3 L	Z
18XNDM	Master Thesis for study programme LA	Z	18	0P+20C+70E	B L	Z
20XNDM	Master Thesis for study programme LA	Z	18	0P+20C+70E	B L	Z
21XNDM	Master Thesis for study programme LA	Z	18	0P+20C+70E	B L	Z
22XNDM	Master Thesis for study programme LA	Z	18	0P+20C+70E	B L	Z
23XNDM	Master Thesis for study programme LA	Z	18	0P+20C+70E	B L	Z

Characteristics of the courses of this group of Study Plan: Code=XNDP LA 21/22 Name=Diplomová práce program LA (od) 21/22

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11XNDM	Master Thesis for study programme LA	Z	18
12XNDM	Master Thesis for study programme LA	Z	18
14XNDM	Master Thesis for study programme LA	Z	18
15XNDM	Master Thesis for study programme LA	Z	18
16XNDM	Master Thesis for study programme LA	Z	18
17XNDM	Master Thesis for study programme LA	Z	18
18XNDM	Master Thesis for study programme LA	Z	18
20XNDM	Master Thesis for study programme LA	Z	18
21XNDM	Master Thesis for study programme LA	Z	18
22XNDM	Master Thesis for study programme LA	 Z	18
23XNDM	Master Thesis for study programme LA	 Z	18

Name of the block: Semestrální projekt Minimal number of credits of the block: 13

The role of the block: ZP

Code of the group: XN LA 1-4 20/21

Name of the group: Projekty nav.prez.1.-4.sem (od) 20/21 programu LA Requirement credits in the group: In this group you have to gain 13 credits

Requirement courses in the group: In this group you have to complete 4 courses

Credits in the group: 13 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
11XN1	Master Project 1 Ivan Nagy	Z	2	0P+2C+4B	Z	ZP
12XN1	Master Project 1 Zuzana arská, Dagmar Ko árková, Iva Šturmová, Kristýna Neubergová, Martin Jacura, Jan Kruntorád, Ond ej Trešl, David Vodák, Tomáš Javo ík,	Z	2	0P+2C+4B	Z	ZP
14XN1	Master Project 1	Z	2	0P+2C+4B	Z	ZP
15XN1	Master Project 1	Z	2	0P+2C+4B	Z	ZP
16XN1	Master Project 1 P emvsl Toman	Z	2	0P+2C+4B	Z	ZP

17XN1	Master Project 1 Karel Je men, Tomáš Horák, Eliška Glaserová, Zden k Michl, Vít Janoš, Rudolf Vávra, Dušan Teichmann, Veronika Faifrová, Michal Drábek,	Z	2	0P+2C+4B	Z	ZP
18XN1	Master Project 1 Václav Rada, Nela Kr má ová	Z	2	0P+2C+4B	Z	ZP
20XN1	Master Project 1 Ji í R ži ka	Z	2	0P+2C+4B	Z	ZP
21XN1	Master Project 1 Jakub Kraus, Andrej Lališ, Slobodan Stoji , Terézia Pilmannová, Jakub Hospodka, Lenka Hanáková, Vladimír Socha, Peter Vittek, Lukáš Popek,	Z	2	0P+2C+4B	Z	ZP
22XN1	Master Project 1 Michal Frydrýn, Karel Kocián, Luboš Nouzovský, Zden k Svatý, Jakub Nová ek	Z	2	0P+2C+4B	Z	ZP
23XN1	Master Project 1	Z	2	0P+2C+4B	Z	ZP
11XN2	Master Project 2 Ivan Nagy	Z	2	0P+2C+8B	L	ZP
12XN2	Master Project 2 Zuzana arská, Dagmar Ko árková, Kristýna Neubergová, Martin Jacura, Jan Kruntorád, Ond ej Trešl, David Vodák, Tomáš Javo ík, Pavel Purkart,	Z	2	0P+2C+8B	L	ZP
14XN2	Master Project 2 Vít Fábera, Tomáš Brandejský, Mária Jánešová, Jan Zelenka	Z	2	0P+2C+8B	L	ZP
15XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
16XN2	Master Project 2	 Z	2	0P+2C+8B	L	ZP
. 6,	P emysl Toman, Josef Mik		 	0. 120102		
17XN2	Master Project 2 Tomáš Horák, Zden k Michl, Vít Janoš, Rudolf Vávra, Dušan Teichmann, Roman Št rba, Veronika Faifrová, Michal Drábek, Denisa Mocková, Vít Janoš (Gar.)	Z	2	0P+2C+8B	L	ZP
18XN2	Master Project 2 Daniel Kytý	Z	2	0P+2C+8B	L	ZP
20XN2	Master Project 2 Ji í R ži ka, Patrik Horaž ovský	Z	2	0P+2C+8B	L	ZP
21XN2	Master Project 2 Jakub Kraus, Andrej Lališ, Slobodan Stoji , Terézia Pilmannová, Jakub Hospodka, Lenka Hanáková, Peter Vittek, Jakub Steiner, Natalia Guskova,	Z	2	0P+2C+8B	L	ZP
22XN2	Master Project 2 Michal Frydrýn, Karel Kocián, Luboš Nouzovský, Zden k Svatý, Jakub Nová ek	Z	2	0P+2C+8B	L	ZP
23XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
11XN3	Master Project 3	Z	1	0P+4C	Z	ZP
12XN3	Master Project 3 Zuzana arská, Dagmar Ko árková, Martin Jacura, Jan Kruntorád, Ond ej Trešl, David Vodák, Tomáš Javo ík, Pavel Purkart, Lukáš Týfa,	Z	1	0P+4C	Z	ZP
14XN3	Master Project 3	Z	1	0P+4C	Z	ZP
15XN3	Master Project 3	Z	1	0P+4C	Z	ZP
16XN3	Master Project 3 P emysl Toman, Josef Mik, Michal Cenkner, Josef Svoboda	Z	1	0P+4C	Z	ZP
17XN3	Master Project 3 Karel Je men, Tomáš Horák, Eliška Glaserová, Zden k Michl, Vít Janoš, Rudolf Vávra, Dušan Teichmann, Veronika Faifrová, Michal Drábek,	Z	1	0P+4C	Z	ZP
18XN3	Master Project 3	Z	1	0P+4C	Z	ZP
20XN3	Master Project 3	Z	1	0P+4C	Z	ZP
21XN3	Master Project 3	Z	1	0P+4C	Z	ZP
22XN3	Terézia Pilmannová, Miloš Strouhal Master Project 3 Milos Francisco Variante Varia	Z	1	0P+4C	Z	ZP
23XN3	Michal Frydrýn, Karel Kocián, Luboš Nouzovský, Zden k Svatý, Tomáš Mi unek Master Project 3	Z	1	0P+4C	Z	ZP
11XN4	Master Project 4		8	0P+4C	L	ZP
12XN4	Master Project 4 Zuzana arská, Dagmar Ko árková, Kristýna Neubergová, Martin Jacura, Jan	 Z	8	0P+4C	L	ZP
14XN4	Kruntorád, Ond ej Trešl, David Vodák, Tomáš Javo ík, Pavel Purkart, Master Project 4	Z	8	0P+4C	L	ZP
15XN4	Master Project 4 Master Project 4	Z	8	0P+4C	L	ZP
	Master Project 4 Master Project 4		+ -	+ +		
16XN4	Josef Mík, Michal Cenkner	Z	8	0P+4C	L	ZP
17XN4	Master Project 4 Tomáš Horák, Zden k Michl, Vít Janoš, Rudolf Vávra, Dušan Teichmann, Roman Št rba, Veronika Faifrová, Michal Drábek, Denisa Mocková, Václav Baroch (Gar.)	Z	8	0P+4C	L	ZP
18XN4	Master Project 4	Z	8	0P+4C	L	ZP
20XN4	Master Project 4	Z	8	0P+4C	L	ZP

21XN4	Master Project 4 Slobodan Stoji , Terézia Pilmannová, Vladimír Socha, Peter Vittek, Jakub Steiner, Miloš Strouhal, Ota Hajzler, Iveta Kameníková, Petr Lukeš,	Z	8	0P+4C	L	ZP
22XN4	Master Project 4 Michal Frydrýn, Karel Kocián, Luboš Nouzovský, Zden k Svatý	Z	8	0P+4C	L	ZP
23XN4	Master Project 4	Z	8	0P+4C	L	ZP

Characteristics of the courses of this group of Study Plan: Code=XN LA 1-4 20/21 Name=Projekty nav.prez.1.-4.sem (od) 20/21 programu

LA			
11XN1	Master Project 1	Z	2
12XN1	Master Project 1	Z	2
14XN1	Master Project 1	Z	2
15XN1	Master Project 1	Z	2
16XN1	Master Project 1	Z	2
17XN1	Master Project 1	Z	2
18XN1	Master Project 1	Z	2
20XN1	Master Project 1	Z	2
21XN1	Master Project 1	Z	2
22XN1	Master Project 1	Z	2
23XN1	Master Project 1	Z	2
11XN2	Master Project 2	Z	2
12XN2	Master Project 2	Z	2
14XN2	Master Project 2	Z	2
15XN2	Master Project 2	Z	2
16XN2	Master Project 2	Z	2
17XN2	Master Project 2	Z	2
18XN2	Master Project 2	Z	2
20XN2	Master Project 2	Z	2
21XN2	Master Project 2	Z	2
22XN2	Master Project 2	Z	2
23XN2	Master Project 2	Z	2
11XN3	Master Project 3	Z	1
12XN3	Master Project 3	Z	1
14XN3	Master Project 3	Z	1
15XN3	Master Project 3	Z	1
16XN3	Master Project 3	Z	1
17XN3	Master Project 3	Z	1
18XN3	Master Project 3	Z	1
20XN3	Master Project 3	Z	1
21XN3	Master Project 3	Z	1
22XN3	Master Project 3	Z	1
23XN3	Master Project 3	Z	1
11XN4	Master Project 4	Z	8
12XN4	Master Project 4	Z	8
14XN4	Master Project 4	Z	8
15XN4	Master Project 4	Z	8
16XN4	Master Project 4	Z	8
17XN4	Master Project 4	Z	8
18XN4	Master Project 4	Z	8
20XN4	Master Project 4	Z	8
21XN4	Master Project 4	Z	8
22XN4	Master Project 4	Z	8
23XN4	Master Project 4	Z	8

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 6

The role of the block: PV

Code of the group: Y2-NPLA 22/23

Name of the group: PVP nav.prez. program LA 22/23

Requirement credits in the group: In this group you have to gain 6 credits

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

Credits in the group: 6

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
17Y2AM	Application of Marketing Tools in Transportation	KZ	2	2P+0C	L	PV
12Y2BM	Safety on The Local Roads	KZ	2	2P+0C	Z	PV
23Y2BP	Security Class	KZ	2	2P+0C	Z	PV
14Y2C1	Zuzana Kosová CATIA I	KZ	2	2P+0C	L	PV
14Y2C2	CATIA II	KZ	2	2P+0C	Z	PV
14Y2CS	Sensitivity of Systems	KZ	2	2P+0C	L	PV
21Y2CR	CRM	KZ	2	2P+0C	L	PV
12Y2DU	Transport in the Context of Sustainability Kristýna Neubergová	KZ	2	2P+0C	L	PV
15Y2DN	Transportation Psychology in German Speaking Countries	KZ	2	2P+0C	L	PV
18Y2DC	Dynamics of Transport Routes and Vehicles	KZ	2	2P+0C	Z	PV
18Y2EM	Electron microscopy Nela Kr má ová	KZ	2	2P+0C	L	PV
16Y2EE	Emissions and Ergonomics of Vehicles	KZ	2	2P+0C	L	PV
17Y2FM	Financing in Urban Mass Transportation Václav Baroch	KZ	2	2P+0C	Z	PV
21Y2FM	Aviation Company Financial Management Radoslav Zozu ák Radoslav Zozu ák	KZ	2	2P+0C+8E	3 Z	PV
23Y2FB	Physics for Security Branches	KZ	2	2P+0C	Z	PV
18Y2FZ	Physical foundation of materials' properties Jaroslav Valach	KZ	2	2P+0C	L	PV
15Y2HS	Road Transport History Eva Rezlerová, Zuzana arská	KZ	2	2P+0C	L	PV
16Y2HP	Vehicle Hygiene	KZ	2	2P+0C	L	PV
14Y2IS	Intelligent Systems in Postal Services	KZ	2	2P+0C	L	PV
12Y2IS	Urban Networks	KZ	2	2P+0C	Z	PV
14Y2JM	One-Chip Controllers	KZ	2	2P+0C	Z	PV
15Y2JH	Job Hunting in English Lenka Monková	KZ	2	2P+0C	Z	PV
14Y2KI	Capital Investment in Transportation and Telecommunications	KZ	2	2P+0C	L	PV
16Y2KV	Car Body Design	KZ	2	2P+0C	L	PV
12Y2KS	Rail Transport in Settlements and Regions Miroslav Veliš	KZ	2	2P+0C	Z	PV
12Y2KE	Landscape Ecology Kristýna Neubergová	KZ	2	2P+0C	Z	PV
21Y2LS	Air Traffic Services	KZ	2	2P+0C+8E	B L	PV
11Y2LG	Logics of Engineer's Judgement	KZ	2	2P+0C	L	PV
23Y2MA	Risk Analysis and Management	KZ	2	2P+0C	L	PV
21Y2MQ	Quality Management Luboš Socha	KZ	2	2P+0C+8E	B L	PV
15Y2MS	Sociology for Managers Martina Šmidochová	KZ	2	2P+0C	Z	PV
21Y2MK	Marketing of Air Transport Peter Vittek Peter Vittek	KZ	2	2P+0C+8E	3 Z	PV
12Y2MH	Measurement and Modeling of Traffic Noise	KZ	2	2P+0C	L	PV
12Y2MI	Urban Engineering	KZ	2	2P+0C	L	PV
18Y2MP	Finite Element Method And Its Application Radek Kolman	KZ	2	2P+0C	L	PV
16Y2MK	Quality Methods for Vehicles	KZ	2	2P+0C	L	PV
12Y2MD	Methods of Traffic Regulation and Prediction Zuzana arská	KZ	2	2P+0C	L	PV
17Y2MO	International Organisations in Transportation	KZ	2	2P+0C	L	PV
17Y2MS	Microsimulation of Railway Operation Zden k Michl	KZ	2	2P+0C	Z	PV
17Y2MD	Modelling and optimization on transport networks	KZ	2	2P+0C	Z	PV
21Y2MC	CNS Systems Modelling Stanislav Pleninger Stanislav Pleninger	KZ	2	2P+0C+8E	3 Z	PV
17Y2MT	Modern History for Engineering Students Tomáš Horák, Petra Skolilová	KZ	2	2P+0C	Z	PV

12Y2MZ	Modernization of Railway Lines and Stations	KZ	2	2P+0C	L	PV
12Y2NS	Dagmar Ko árková, Miroslav Veliš Shared Space Design	KZ	2	2P+0C		PV
14Y2OP	Vojt ch Novotný, Karel Hájek	KZ	2	2P+0C	L	PV
15Y2OZ	Object Oriented Programming in Transport Health Protection in Transportation and EU	KZ	2	2P+0C	Z	PV
	Eva Rezlerová, Petr Musil			+ +		PV
15Y2OF	Specialised French for Transportation and Telecommunications	KZ	2	2P+0C	Z	PV
18Y2OB	Optical Contactless Strain Measurements Petr Zlámal	KZ	2	2P+0C	L	PV
16Y2PG	Computer Graphics and Virtual Reality Stanislav Novotný, Petr Bouchner	KZ	2	2P+0C	Z	PV
22Y2PS	Traffic Accidents Computer Simulation and Analysis	KZ	2	2P+0C	L	PV
15Y2PT	Food in Transportation Eva Rezlerová, Petr Musil	KZ	2	2P+0C	L	PV
23Y2PD	Practical vehicle dynamics	KZ	2	2P+0C	L	PV
15Y2PD	Practical Spanish for Transportation	KZ	2	2P+0C	Z	PV
21Y2PP	Law and Operation in Air Transport Radoslav Zozu ák	KZ	2	2P+0C+8B	L	PV
20Y2PR	Prediction of time series	KZ	2	2P+0C	L	PV
12Y2PV	Public transport priority	KZ	2	2P+0C	L	PV
14Y2PI	Process Information Systems in Transportation	KZ	2	2P+0C	Z	PV
14Y2PJ	C++ Programming Language	KZ	2	2P+0C	L	PV
14Y2PH	CAD Interface Programming	KZ	2	2P+0C	L	PV
11Y2PM	Programming in MATLAB Šárka Vorá ová	KZ	2	2P+0C	L	PV
21Y2PL	Operational Aspects of Aerodromes	KZ	2	2P+0C	Z	PV
15Y2PU	Publications and Their Creation	KZ	2	2P+0C	Z	PV
12Y2RD	Realization of Transport Buildings Dagmar Ko árková, Martin Höfler, Tomáš Honc	KZ	2	2P+0C	L	PV
17Y2RZ	Control of Transport Processes	KZ	2	2P+0C	Z	PV
15Y2SP	Seminar on Political Philosophy	KZ	2	2P+0C	Z	PV
17Y2SJ	Network Timetabling on the Railway Vit Janoš Vit Janoš (Gar.)	KZ	2	2P+0C	L	PV
16Y2ST	Special Technologies in Transport and Telecommunications	KZ	2	2P+0C	L	PV
16Y2SV	Special technologies in vehicle manufacturing	KZ	2	2P+0C	L	PV
18Y2SD	Reliability and Diagnostics, Experimental Methods Daniel Kytý	KZ	2	2P+0C	Z	PV
15Y2SR	Stylistics and Rhetorics	KZ	2	2P+0C	Z	PV
15Y2TS	Technician and Contemporary Society Jan Feit. Eva Rezlerová	KZ	2	2P+0C	L	PV
20Y2TE	Technology of Electronic Systems	KZ	2	2P+0C	Z	PV
14Y2TU	Telecommunications Systems and Multimedia	KZ	2	2P+0C	Z	PV
16Y2TT	Transportation and Building Technology and Equipment	KZ	2	2P+0C	Z	PV
23Y2TP	Creation of legal and technical regulations	KZ	2	2P+0C	L	PV
14Y2UI	Artificial Intelligence	KZ	2	2P+0C+8B	Z,L	PV
18Y2UB	Accident Biomechanics and Safety	KZ	2	2P+0C	L	PV
23Y2VZ	Leadership and Human Resource Development	KZ	2	2P+0C	L	PV
18Y2VC	Computational Mechanics in Transportation Radek Kolman	KZ	2	2P+0C	L	PV
23Y2VR	Cope with Risks in Engineering Branches Danuše Procházková	KZ	2	2P+0C		PV
15Y2ZA	Basic Principles of English Academic Writing and Abstract in English	KZ	2	2P+0C	Z	PV
12Y2ZK	Traffic Calming Zuzana arská	KZ	2	2P+0C	Z	PV
23Y2ZM	Intelligence Means and Methods	KZ	2	2P+0C	Z	PV

Characteristics of the courses of this group of Study Plan: Code=Y2-NPLA 22/23 Name=PVP nav.prez. program LA 22/23

17Y2AM	Application of Marketing Tools in Transportation	KZ	2
Application of marketin	g principles in transport issues, marketing tools suitable for transport, case studies of the use of marketing in the sphere of pu	ublic passenger tr	ansport.
12Y2BM	Safety on The Local Roads	KZ	2
Classification of road ad	cidents rates, social looses. Collision points, diagrams. Tools and methods for safer road transportation. Crossroads from the po	oint of view of safe	ty. Psychological
right of way. Roundabo	uts. Pedestrian transport, cyclists. Traffic lights coordination. Transport control and regulation.		

23Y2BP Security Class	KZ 2
The most prevalent topics include data management, data and text mining applications, terrorism informatics, deception and intent detection,	terrorist and criminal social network
analysis, crime analysis, cyber-infrastructure protection, transportation infrastructure security, and information assurance, among others.	
14Y2C1 CATIA I	KZ 2
Fundaments of working with CATIA, making basic parts and bodies. Making 2D sketches, geometric stucture, parametric linking, making adaptions of working with CATIA, making basic parts and bodies. Making 2D sketches, geometric stucture, parametric linking, making adaptions of working with CATIA.	otive models from 2D sketches. Import
and export of made parts and bodies. Making assemble and visualization.	1/7
14Y2C2 CATIA II	KZ 2
Extension of basic course. Modeling compound bodies. Possibility of enumeration, comunications with other systems. Surface x solid bodies. For any project conservation. Outputs of projects	Rinematic mechanism. Project making
and project cooperation. Outputs of projects.	1/7
14Y2CS Sensitivity of Systems	KZ 2
Design of systems with defined reliability. The impact of changing parameters and subsystems within a system. System sensitivity computing, matrices and their usability in system design.	definition of sensitivity functions and
21Y2CR CRM	KZ 2
Introduction to CRM. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect or	1
Vigilance. Information Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership & Campunication. Leadership & Campunication. Leadership & Campunication. Leadership & Campunication.	, , , , ,
12Y2DU Transport in the Context of Sustainability	KZ 2
Definitions of sustainable transport, historical context, development in our country and in the world. Sustainable development and sustainable transport.	
of transport. Examples of sustainable transport. Biofuels. Electromobility. New trends in transport. Practical examples.	
15Y2DN Transportation Psychology in German Speaking Countries	KZ 2
Introduction into broader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaus	1
in traffic, traffic accident, traffic psychology in the internet etc.)	aon, gotting or anning noones, ermaren
18Y2DC Dynamics of Transport Routes and Vehicles	KZ 2
Basic theory and calculations of more mass systems. Analysis of the forces acting between the vehicle and transport route. Creation of dynamic	
Vibration of systems with a finite number of degrees of freedom. Methods of stiffness constants and pliability constants. Fundamentals of vibration	· ·
of oscillation. Experimental methods in dynamics.	,
18Y2EM Electron microscopy	KZ 2
Basic principles of electron microscopy, construction, control and maintenance of SEM, sample preparation, signal detection, types of detecto	
analysis, quantification of results and automation of data processing, energy dispersive X-ray microanalysis and other analytical methods in el	lectron microscopy. Evaluation of data
obtained from ED detector, practical examples of ED microanalysis on samples.	
16Y2EE Emissions and Ergonomics of Vehicles	KZ 2
Emissions and ergonomy of vehicles and the influence on man and nature. National and international law related to the hygiene. Noise and vib	orations - sources, creation, propagation,
physical values, ways of measuring, prevention, elimination. Exhausts - creation, measurement, reduction, non-regular fuels and drives. Ergonor	my - sitting, standing, control, operational
reach. Condition - heating, ventilation, air-conditioning, filtration, tiredom.	
17Y2FM Financing in Urban Mass Transportation	KZ 2
UMT history and development in Prague and other cities in the world. Building and operation of public tram, bus, and trolleybus networks. Und	lerground building and operation. Other
UMT types. UMT development in small towns. Particularities of investment and operation financing of individual UMT types. Historic and present types.	ent models of UMT financing. Transport
inspection and blind passengers. Tourism & DMT. UMT typology & DMT	
21Y2FM Aviation Company Financial Management	KZ 2
Theories of corporate finance - financial statements, budget, forecast. Financial policy of the company. Financial resources - long-term financial	al resources, depreciation, retained
earnings, shares, bonds, loans, leasing, capital. Financial and economic analysis of the company - structure and content.	
23Y2FB Physics for Security Branches	KZ 2
Grounds of physics of substances and phenomena at extreme conditions. Grounds of rheology. Physics of Earth's interior. Geophysics. Physic	cs of atmosphere. Applications in
dengineering branches directed to safety.	1/7
18Y2FZ Physical foundation of materials' properties	KZ 2
Atomistic models, lattice defects influence on properties of materials, stiffness, plasticity, strength, fracture, fatigue, creep, corrosion, effects of	environment and loading on materials
behavior are the main discussed topics.	1/7
15Y2HS Road Transport History	KZ 2
Roads and road traffic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration	
1st part of 20th century. Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of road intercections, bridges and traffic control, development of road signs.	lent of road travelling in modern period.
	K7 2
16Y2HP Vehicle Hygiene Emissions and ergonomy of vehicles and the influence on man and nature. National and international law related to the hygiene. Noise and vib	KZ 2
Emissions and ergonomy of vehicles and the influence on man and nature. National and international law related to the hygiene. Noise and vib	prations - sources, creation, propagation,
Emissions and ergonomy of vehicles and the influence on man and nature. National and international law related to the hygiene. Noise and vib physical values, ways of measuring, prevention, elimination. Exhausts - creation, measurement, reduction, non-regular fuels and drives. Ergonometers are considered to the hygiene.	prations - sources, creation, propagation,
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Emissions and ergonomy of vehicles and the influence on man and nature. National and international law related to the hygiene. Noise and vib physical values, ways of measuring, prevention, elimination. Exhausts - creation, measurement, reduction, non-regular fuels and drives. Ergonomerach. Condition - heating, ventilation, air-conditioning, filtration, tiredom. 14Y2IS Intelligent Systems in Postal Services The use of information systems in the postal services (ITIS, and POST, T + T, PS, KMP, DS), application of information technology in the process.	orations - sources, creation, propagation, my - sitting, standing, control, operational KZ 2 essing of mail processing nodes in the
Emissions and ergonomy of vehicles and the influence on man and nature. National and international law related to the hygiene. Noise and vib physical values, ways of measuring, prevention, elimination. Exhausts - creation, measurement, reduction, non-regular fuels and drives. Ergonomeach. Condition - heating, ventilation, air-conditioning, filtration, tiredom. 14Y2IS Intelligent Systems in Postal Services	orations - sources, creation, propagation, my - sitting, standing, control, operational KZ 2 essing of mail processing nodes in the
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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 s		guration and
operation of metro systems. Network configuration and operation of tram systems. Special thematic lectures (rail transport in selected countries		
12Y2KE Landscape Ecology	KZ	2
Landscape ecology. Landscape - definition, types, evolution. Landscape systems. Anthropogenic impacts on landscape. Methods using for evaluation produced in patients and including in landscape academy. Landscape planning	uating landscape. Frac	tal geometry
and its potential applications in landscape ecology. Landscape planning.	1/7	
21Y2LS Air Traffic Services	KZ	2
Airspace structure in Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TV at USA and Czechoslovakia. ATS - Model of financing. Training Systém of Air Traffic Controllers. Future development of ATS.	WR, APP a ACC contro	I. HISTORY OF ATS
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 truthf	1	
Venn's diagram method. Logical basis for network design for the solution of technical tasks.	unicos ana semantic a	naryoro charto.
23Y2MA Risk Analysis and Management	KZ	2
Concept of risks and terms. Risk sources, definition of hazard, impacts and risks. Methods for identification, analysis, assessment and manager	1	-
and good engineering practice. Methods, tools and techniques for risk engineering. System of systems risk. Application of strategic and system	_	
development. Territorial, emergency and crisis planning. Human factor - its role.		
21Y2MQ Quality Management	KZ	2
History, basic definition. Pioneers in the field of quality. International quality organisations and quality promotion in the Czech Republic. Quality r	management system. E	Environmental
management systems. Integrated management systems. Risk management in the context of the requirements of ISO standards. Sectoral quality	management systems.	Comprehensive
quality management, excellence models and corporate social responsibility. Quality audits.		
15Y2MS Sociology for Managers	KZ	2
Sociological approach to a corporation. Corporation and its organization. Corporation and its running - human role and communication. Corporation		cial system.
Human's work position in free market economy. Corporate directorship, work groups, adaptation, strife, different roles and positions in corporation		
21Y2MK Marketing of Air Transport	KZ	2
The content of the course "Marketing in air transport" is the management of activities and processes using available marketing tools and process		
and implementation of sales of goods and services in the aviation industry. In addition to the theoretical foundations of marketing, the lectures p	present systems of mar	ket, competition
and product analysis, creation of marketing strategies and planning.	1/7	
12Y2MH Measurement and Modeling of Traffic Noise	KZ	2
Theoretical introduction to noise from traffic. Noise from rail transport. Noise from road traffic. Measurement and calculation of noise from rail transport noise from road traffic. Modelling of traffic noise in the CADNA A.	anic. Measurement and	calculation of
12Y2MI Urban Engineering	KZ	2
Teaching aming on utilities storage in area, coordination engineering activities in area, arrangement of public space, concepement of public space	1	_
18Y2MP Finite Element Method And Its Application	KZ	2
Basic mathematical formulation of the Finite Element Method. Direct Stiffness Method used in structural mechanics. Evaluation of stiffness matrix	rices for the basic elem	ents using
variational principles. Element formulation (bar and beam elements, CST, LST, quadrilateral, tetrahedral and brick elements). Natural coordinate	es, natural shape funct	ons and
	· ·	
isoparametric representation. Numerical integration. Introduction to dynamics. FEM programming.		
	KZ	2
isoparametric representation. Numerical integration. Introduction to dynamics. FEM programming.	KZ	2
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15Y2OZ	Health Protection in Transportation and EU insportation and EU insportation in CR in the past and present. Conditions before 1989 and after, current legislature, future prospects. Harmonisat	KZ	2 with other ELL
•	insportation in CK in the past and present. Conditions before 1909 and after, current registature, ruture prospects. Harmonisat al principles of health protection and support in selected EU countries.	lion of legislation v	WILLI OLLIEL EO
15Y2OF	Specialised French for Transportation and Telecommunications	KZ	2
-	ublic transport, railway, air, road and ship transport) and telecommunications terminology. Special focus on independent spea	king and writing s	kills.
18Y2OB	Optical Contactless Strain Measurements	KZ	2
n the course students	will get theoretical knowledge and practical experience in optical strain measurement methods. Students will get experience v	with use of laborat	tory cameras,
• .	d cameras for acquisition of suitable image data and with digital image correlation algorithms for displacements measurement		calculation.
16Y2PG	Computer Graphics and Virtual Reality	KZ	2
•	nd processing of bitmap and vector 2D graphics, 3D virtual scenes and algorithms used for their computerized processing. Adop	•	with profession
	creation and processing of 2D, 3D and interactive graphics, and basics of programming language VRML and graphic libraries		
22Y2PS	Traffic Accidents Computer Simulation and Analysis	KZ	2
-	llation, multi body systems and vehicle active safety systems, vehicle slipping, external influence on virtual model, crash tests edestrian, traffic accident simulation and analysis.	evaluation, single	-track verticle,
15Y2PT	Food in Transportation	KZ	2
	eraction transportation and foodstuffs. The health risks. Hygienic safeguard. The practical examples from the Czech Republic	1	_
	s and other railroad equipment. Legislation.		
23Y2PD	Practical vehicle dynamics	KZ	2
Theory of vehicle dyna	mics. Multibody vehicle modeling. Modeling with IPG CarMaker. Standard and development stage experiments with road vehi		of experimental
neasurements with pa	ssenger vehicles. Experiment evaluation.		
15Y2PD	Practical Spanish for Transportation	KZ	2
•	unication skills, training of correct written expression of formal character, basic technical vocabulary, cultural specifics of the S	Spanish speaking	countries.
Terminology of transpo			
21Y2PP	Law and Operation in Air Transport	KZ	2
•	on law. International conventions on civil aviation. International organisations and including of the Czech Republic in these organization and state supervision in matters of civil aviation, in accordance with Act No. 49/4997 Col. Excilitation Res	_	
	state administration and state supervision in matters of civil aviation, in accordance with Act No. 49/1997 Col. Facilitation. Res Ind cargo. The safe transport of dangerous goods.	Por Seifillaler of Air	carriers for
20Y2PR	Prediction of time series	KZ	2
	Frediction of time series ies prediction, meaning of prediction, basics of quantitative prediction. Methods for predictive quality evaluation, descriptive sta	1	
	or general formula of loss function. Calculation and programming environment R. Regression models, basics of linear regressi		
•	ests of linear dependence, selection of input variables.		·
2Y2PV	Public transport priority	KZ	2
Public transport as the	backbone of sustainable mobility. Public transport priority (PTP) in strategic documents. PTP in the Czech Republic and abroa	d. Types of PTP m	easures. Desig
	ationship between Basics of public transport stops and stations design. PTP measures and evaluation of their operation. Econ	nomic and environ	nental effects of
PTP. The process of p	eparing PTP measures.		
	Process Information Systems in Transportation	KZ	2
	ed usage of transport information systems, e.g. EFC, ePurse and transport check-in systems for public transport with focus or	n architecture of th	nis system and
ntroduction and detail SOA (Service Oriente	ed usage of transport information systems, e.g. EFC, ePurse and transport check-in systems for public transport with focus or discription. Inforamtion systems implementation and operations description in the Czech Republic (technical and process)	n architecture of the included lectures	nis system and and sand visits.
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8Y2SD	Reliability and Diagnostics, Experimental Methods	KZ	2
	on theoretical background and practical experience in the field of reliability of constructions, implementation of diagnostic proce		_
	tion of residual life of structures. For this purpose, non-destructive methods of experimental mechanics (e.g. strain-gauge mea		
	ding electron microscopy, will be used.		• • • • • • • • • • • • • • • • • • • •
5Y2SR	Stylistics and Rhetorics	KZ	2
	I written expression as a means of human communication. Basic information about speech, articulation, oral and written langu	· · · · · · · · · · · · · · · · · · ·	_
	Language semantics, language syntactic and the pragmatic aspect. Creative thought and its oral and written expression. Practic	-	-
5Y2TS	Technician and Contemporary Society	KZ	2
-	n 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 or		_
=	apers, what are the sights for, interest in public affairs - a hangover from the past?	ra r o, it made bo	1140 11 0 011 11
OY2TE	Technology of Electronic Systems	KZ	2
	for an effective operation of electronically controlled systems. Maintaining, meassuring, optimization of safety and reliability of		
-	circuits, assembly operations, interconnection and repairs technologiesusers and operators.	complex systems	. Gerniconduct
4Y2TU		KZ	2
– . •	Telecommunications Systems and Multimedia munications namely applied in transport solutions, identification and quantification of telecommunications networks and services		_
	ning of guaranteed service quality, two generations of the handover principles.	periormance bas	eu on reuuriua
-		1/7	
6Y2TT	Transportation and Building Technology and Equipment	KZ	2
-	ilding technology and equipment. Transport of solid and mass material, soil and rock above all. Highway and underground cons	•	
•	nd construction features, delivered mass calculation, economy of operation. Technics and technology of underground construct plogy (ultrasound, laser, GPS, total stations).	ions, ierrestriai ve	enicies operation
		1/7	
3Y2TP	Creation of legal and technical regulations	KZ	2
-	, structure of the bills of law, legal process, compatibility with the EC law, the creation of technical standards and their publicati	on, UNIMZ (Czecr	Office for
	and testing) in Czech Republic, organizations CEN, CENELEC and ETSI, the notification process.	–	
4Y2UI	Artificial Intelligence	KZ	2
	elligence, knowledge, its representation including frames, state space search, constraints, genetic algorithms, machine learning	ו	
OVALID			
	Accident Biomechanics and Safety	KZ	2
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Name of the block: Jazyky

Minimal number of credits of the block: 8

The role of the block: J

Code of the group: JZ-N-LA 20/21

Name of the group: Jazyk nav.1.-4.sem. (od) 20/21 - program LA

Requirement credits in the group: In this group you have to gain 8 credits

Requirement courses in the group: In this group you have to complete 4 courses

Credits in the group: 8

Note on the group:

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Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
15J2F1	Language - French 1 Eva Rezlerová, Irena Veselková	Z	2	0P+2C+10B	Z	J
15J2I1	Language - Italian 1 Eva Rezlerová, Irena Veselková	Z	2	0P+2C+10B	Z	J
15J2N1	Language - German 1 Eva Rezlerová, Martina Navrátilová, Jana Štikarová	Z	2	0P+2C+10B	Z	J

15J2R1	Language - Russian 1 Marie Michlová, Eva Rezlerová	Z	2	0P+2C+10B	Z	J
15J2S1	Language - Spanish 1 Eva Rezlerová, Nina Hricsina Puškinová	Z	2	0P+2C+10B	Z	J
15JBF2	Language - French 2 Eva Rezlerová, Irena Veselková	Z	2	0P+2C+10B	L	J
15JBI2	Language - Italian 2 Eva Rezlerová	Z	2	0P+2C+10B	L	J
15JBN2	Language - German 2 Eva Rezlerová, Martina Navrátilová, Jana Štikarová	Z	2	0P+2C+10B	L	J
15JBR2	Language - Russian 2 Marie Michlová, Eva Rezlerová	Z	2	0P+2C+10B	L	J
15JBS2	Language - Spanish 2 Eva Rezlerová, Nina Hricsina Puškinová	Z	2	0P+2C+10B	L	J
15JBF3	Language - French 3 Eva Rezlerová, Irena Veselková	Z	2	0P+2C+10B	Z	J
15JBI3	Language - Italian 3 Eva Rezlerová, Irena Veselková	Z	2	0P+2C+10B	Z	J
15JBN3	Language - German 3 Eva Rezlerová, Martina Navrátilová, Jana Štikarová	Z	2	0P+2C+10B	Z	J
15JBR3	Language - Russian 3 Marie Michlová, Eva Rezlerová	Z	2	0P+2C+10B	Z	J
15JBS3	Language - Spanish 3 Eva Rezlerová, Nina Hricsina Puškinová	Z	2	0P+2C+10B	Z	J
15JBF4	Language - French 4 Eva Rezlerová. Irena Veselková	ZK	2	0P+2C+10B	L	J
15JBI4	Language - Italian 4 Eva Rezlerová	ZK	2	0P+2C+10B	L	J
15JBN4	Language - German 4 Eva Rezlerová. Martina Navrátilová. Jana Štikarová	ZK	2	0P+2C+10B	L	J
15JBR4	Language - Russian 4 Marie Michlová, Eva Rezlerová	ZK	2	0P+2C+10B	L	J
15JBS4	Language - Spanish 4 Eva Rezlerová. Nina Hricsina Puškinová	ZK	2	0P+2C+10B	L	J

Characteristics of the courses of this group of Study Plan: Code=JZ-N-LA 20/21 Name=Jazyk nav.1.-4.sem. (od) 20/21 - program LA Language - French 1 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management. 15J2I1 Language - Italian 1 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management Z 15J2N1 Language - German 1 2 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management. 15J2R1 Language - Russian 1 7 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management 15J2S1 Language - Spanish 1

Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management.

15JBF2 Language - French 2

Z 2

Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management.

15JBI2 Language - Italian 2

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Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management.

5JBN2 Language - German 2

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Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management.

5JBR2 Language - Russian 2

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Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management.

15JBS2	Language - Spanish 2	Z	2
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List of courses of this pass:

features. Practice of oral and written presentation.

Code	Name of the course	Completion	Credits
11LIP2	Linear Programming 2	Z,ZK	3
Formulation of the	ask of integer programming, branch and bound method of numerical solution, problems about knapsack, travelling salesman, sets, loc	ation of stores and	post boxes,
	tasks of scheduling, heuristics, metaheuristics - genetic algorithms, ant colony optimization.		
11STS	Stochastic Systems	Z,ZK	4
The subject deal	s with the problems of mathematical modelling of dynamical systems, estimation od these models and their utilization for prediction.	The results are illus	strated on
practical tra	insportation tasks. Mathematical theory roots from probability and mathematical statistics and they use the methods of the Bayesian	probabilistic appro	ach.
11TER	Game Theory and Optimal Decision-Making	ZK	2
Decision-making th	neory, utility theory. Explicit form games, backward induction. Normal form games. Antagonistic conflict, matrix games. Repeated gam	nes, evolutionary ga	ame theory.
Cooperative game	es without transferable payoffs. Cooperative games with transferable payoffs (imputation, core, Shapley value, nucleolus). Application	is of game theory a	bove all in
	economics and transportation.		
	economics and transportation.		
11THRO	Queuing Theory	ZK	2
_			_
Discrete event prod	Queuing Theory	all classification, m	_
Discrete event prod	Queuing Theory Sess, definition, random distribution, and probability. Basic processes, process of revitalisation. Markov process, Markov models, Kend	all classification, m	_
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11Y2PM To explain the princip 12XN1 12XN2 12XN3 12XN4 12XNDM 12Y2BM Classification of road a 12Y2DU Definitions of sustainal	Venn's diagram method. Logical basis for network design for the solution of technical tasks. Programming in MATLAB le of modelling and simulation, description of Matlab environment and its settings, optimization and program code debugging, date Matlab. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Master Thesis for study programme LA Safety on The Local Roads ccidents rates, social looses. Collision points, diagrams. Tools and methods for safer road transportation. Crossroads from the point oright of way. Roundabouts. Pedestrian transport, cyclists. Traffic lights coordination. Transport control and regulation. Transport in the Context of Sustainability ble transport, historical context, development in our country and in the world. Sustainable development and sustainable transport. D	KZ a fitting and design Z Z Z Z Z Z KZ of view of safety. Ps	2 2 2 1 8 18 2 sychologic
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12XN1 12XN2 12XN3 12XN4 12XNDM 12Y2BM lassification of road a 12Y2DU efinitions of sustainal	Master Project 1 Master Project 2 Master Project 3 Master Project 4 Master Project 4 Master Thesis for study programme LA Safety on The Local Roads ccidents rates, social looses. Collision points, diagrams. Tools and methods for safer road transportation. Crossroads from the point oright of way. Roundabouts. Pedestrian transport, cyclists. Traffic lights coordination. Transport control and regulation. Transport in the Context of Sustainability ble transport, historical context, development in our country and in the world. Sustainable development and sustainable transport. D	Z Z Z Z Z KZ KZ of view of safety. P:	2 2 1 8 18 2 sychologie
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12XN3 12XN4 12XNDM 12Y2BM lassification of road a 12Y2DU efinitions of sustainal	Master Project 3 Master Project 4 Master Thesis for study programme LA Safety on The Local Roads ccidents rates, social looses. Collision points, diagrams. Tools and methods for safer road transportation. Crossroads from the point oright of way. Roundabouts. Pedestrian transport, cyclists. Traffic lights coordination. Transport control and regulation. Transport in the Context of Sustainability lote transport, historical context, development in our country and in the world. Sustainable development and sustainable transport. D	Z Z Z KZ KZ of view of safety. P:	1 8 18 2 sychologi
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efinitions of sustainal	ole transport, historical context, development in our country and in the world. Sustainable development and sustainable transport. D		
12Y2IS		emand for transpo	1
	of transport. Examples of sustainable transport. Biordels. Electromobility. New trends in transport. I ractical examples.		ii i. iiiduci
	Urban Networks	KZ	2
ne importance and ti	e position of UN as public and technical infrastructure / utillities, metodology of the UN master planning, of UN design, UN coordin		1
	operation (basic technical standards of UN, trenchless technologies for UN).	lation, ON mstana	tion and
12Y2KE	Landscape Ecology	KZ	2
l l	Landscape - definition, types, evolution. Landscape systems. Anthropogenic impacts on landscape. Methods using for evaluating l		I
Landscape ecology.	and its potential applications in landscape ecology. Landscape planning.	anascape. I raciai	gcomen
12Y2KS	Rail Transport in Settlements and Regions	KZ	2
	evelopment of railway infrastructure in Czech Republic. Arrangement of railway networks and junctions. Suburban railway services		1
	n of metro systems. Network configuration and operation of tram systems. Special thematic lectures (rail transport in selected cou		ranon an
12Y2MD	Methods of Traffic Regulation and Prediction	KZ	2
	ognosis, traffic prognosis for large area (calculation of future traffic volumes, calculation of future traffic volumes between areas (ana		1
aoio mayo oi mamo pii	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
I I	on to noise from traffic. Noise from rail transport. Noise from road traffic. Measurement and calculation of noise from rail traffic. Me		1
	noise from road traffic. Modelling of traffic noise in the CADNA A.		
12Y2MI	Urban Engineering	KZ	2
	ning aming on utilities storage in area, coordination engineering activities in area, arrangement of public space, concepement of p		_
12Y2MZ	Modernization of Railway Lines and Stations	KZ	2
	AGC and AGTC Agreement. AGC and AGTC railway network. Principles of modernization (conceptual papers, definitions of basic c		_
	aracteristics on modernized railway lines. Superstructure and substructure on upgraded lines. Designing of railway stations. Bridge	•	
	and realization of projects. Technical description of the tranzit corridors.		
12Y2NS	Shared Space Design	KZ	2
	the concept of integrated use of public spaces by sharing space with all users. Active promotion of settlements and sustainable		
towns and cities. Ana	lysis of implemented foreign examples, principles of zone design in the context of legal and technical requirements. Linking traffic	engineering, urba	ın plannir
	and architecture in the process of designing quality public spaces.		
12Y2PV	Public transport priority	KZ	2
	backbone of sustainable mobility. Public transport priority (PTP) in strategic documents. PTP in the Czech Republic and abroad. Ty		
of PTP measures. Rel	ationship between Basics of public transport stops and stations design. PTP measures and evaluation of their operation. Econom	ic and enviroment	al effects
	PTP. The process of preparing PTP measures.		Т
12Y2RD	Realization of Transport Buildings	KZ	2
	bes. Project Documentation Types. Building Code. Land Permission and Building Permission Process. Building Process. Project Ecc		
12Y2ZK	Traffic Calming	KZ	2
Principles of traffic c	alming. Solution of road network organization. Urban road layouts. Psychological and physical obstacles (measures of traffic calm	ing) and their com	binations
	Traffic calming measures in crossroads. Pedestrian zones. Residential streets and zones.		_
14BIG	Big Data	KZ	2
	e. Basic Principles of Big Data Management. Comparison and Classification of NoSQL Databases. Key Database Value Database.		
atabases. Graph Dat	abases-Basic Principles. Graph Databases-Advanced Aspects. Indexing. Interpretation. Advanced Principles Big Data Manageme	nt. NewSQL Data	base. Ci
140100	computing. Data warehouses and Big Data. Cloud computing. Data warehouses and Big Data. Other Big Data issues.	1/7	
14GISS	Geographical Information Systems	KZ torritorial identifies	2 ation
	saving format of space-oriented information land-survey and cartography minimum basic tasks of spatial operations principles of		
14TEL	Telecommunications	KZ	3
•	trends in telecommunications systems. Economical and legal aspects of telecommunications networks design and telecommunica ification of hlererchical telecommunications networks and telecommunication services performance based on addopted performance p	•	_
ommoadon and quant	services typically applied within transport and specifically logistic solutions.	arameters, telecol	mnunica
14XN1	Master Project 1	Z	2
	•		
14XN2	Master Project 2	Z	2
14XN3	Master Project 3	Z	1
14XN4	Master Project 4	Z	8
14XNDM	Master Thesis for study programme LA	Z	18
14Y2C1	CATIA I	KZ	2

14Y2C2	CATIA II	KZ	2
Extension of basic	c course. Modeling compound bodies. Possibility of enumeration, comunications with other systems. Surface x solid bodies. Kinematic and project cooperation. Outputs of projects.	; mechanism. Proje	ect making
14Y2CS	Sensitivity of Systems	KZ	2
Design of system	s with defined reliability. The impact of changing parameters and subsystems within a system. System sensitivity computing, definition matrices and their usability in system design.	n of sensitivity fund	ctions and
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		
postal network, opti	mizing logistics processes in the post. The appreciation of the real implementation of the Czech post in operation both in lectures and in desk.	the framework of t	the practical
14Y2JM	One-Chip Controllers	KZ	2
· · · · · · · · · · · · · · · · · · ·	rollers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed v	with the aid of AVR	chips.
14Y2KI	Capital Investment in Transportation and Telecommunications Financial market, investment desicion making - long term goals and investment strategies, long term financing	KZ	2
14Y2OP	Object Oriented Programming in Transport	KZ	2
Class, object, enc	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.	roblem cases wil	be chosen
14Y2PH	CAD Interface Programming	KZ	2
Introduction to CAL	D 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).	ds), dialogues, inte	erfaces, and
14Y2PI	Process Information Systems in Transportation	KZ	2
	etailed usage of transport information systems, e.g. EFC, ePurse and transport check-in systems for public transport with focus on ar	ı	_
	riented Architecture). Inforantion systems implementation and operations description in the Czech Republic (technical and process) i		
14Y2PJ	C++ Programming Language	KZ	2
OOP philosophy an	d basics of C++ programming language. Class, object, constructor, destructor, inheritance, abstract class, virtual methods, exceptions, overloading, abstract data type implementation in C++.	streams, method a	and operator
14Y2TU	Telecommunications Systems and Multimedia	KZ	2
	ommunications namely applied in transport solutions, identification and quantification of telecommunications networks and services per		
	architecture, provissioning of guaranteed service quality, two generations of the handover principles.		
14Y2UI His	Artificial Intelligence story of artificial intelligence, knowledge, its representation including frames, state space search, constraints, genetic algorithms, mac	KZ hine learning.	2
15J2A1	Language - English 1	Z	2
	resentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work e	_	-
15J2F1	Language - French 1	Z	2
Grammatical Struc	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	feedback skills, su	ummarising
technical text conte	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec language of management.	hnical registers an	d their use,
15J2I1	Language - Italian 1	Z	2
	ctures 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.	hnical registers an	id their use,
15J2N1	Language - German 1	Z	2
	tures 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 tec language of management.	nnicai registers an	ia trieir use,
15J2R1	Language - Russian 1	Z	2
	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	I	
technical text conte	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec	hnical registers an	d their use,
	language of management.		
15J2S1	Language - Spanish 1	Z	2
	tures 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 tec language of management.	nnicai registers an	ia trieir use,
15JBA2	Language - English 2	Z	2
	resentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work e	ı	_
15JBA3	Language - English 3	Z	2
Presentation Skill	s - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Opt FCE, CAE.	ional courses for d	certificates
15JBA4	Language - English 4	ZK	2
	s - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Opt	I	
15 IDEO	FCE, CAE.	Z	2
15JBF2 Grammatical Struc	Language - French 2 tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	ı	2 Immarising
	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec		-
	language of management.	<u> </u>	,
15JBF3	Language - French 3	Z	2
	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		- 1
and perceptive and	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v	vith (professional)	text and its
	features. Practice of oral and written presentation.		I

			1
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 la		_
and perceptive and	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w	vith (professiona	I) text and its
4.E. IDIO	features. Practice of oral and written presentation.	7	
15JBI2	Language - Italian 2	Z foodbook akillo	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		_
echnical text conte	ent, structuring presentations and meeting minutes, elementary metorics or loreign ranguage and practical application, formal and tech language of management.	ririicai registers a	and their use
15JBI3	Language - Italian 3	Z	2
	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la	_	
•	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w	0 0	ū
	features. Practice of oral and written presentation.		,
15JBI4	Language - Italian 4	ZK	2
Grammar and styli	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la	inguage structur	e knowledge
and perceptive and	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w	vith (professiona	 text and its
	features. Practice of oral and written presentation.		
15JBN2	Language - German 2	Z	2
	ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,		_
echnical text conte	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tech	hnical registers	and their use
45 15110	language of management.		
15JBN3	Language - German 3	Z	2
	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		_
and perceptive and	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.	vitri (professiona	i) lext and its
15JBN4	Language - German 4	ZK	2
	Lariguage - German 4 istics. 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.	(.,
15JBR2	Language - Russian 2	Z	2
	ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	feedback skills,	summarising
	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tecl		
	language of management.		
15JBR3	Language - Russian 3	7	2
		_	
Grammar and styli	istics. 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	nguage structur	e knowledge
and perceptive and	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.	inguage structur	e knowledge I) text and its
and perceptive and	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. Language - Russian 4	inguage structur vith (professiona ZK	re knowledge I) text and its
and perceptive and 15JBR4 Grammar and styli	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work was features. Practice of oral and written presentation. Language - Russian 4 istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la	inguage structur vith (professiona ZK inguage structur	e knowledge I) text and its 2 e knowledge
and perceptive and 15JBR4 Grammar and styli	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work was features. Practice of oral and written presentation. Language - Russian 4 istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lad communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work was communicative skills, vocabulary development.	inguage structur vith (professiona ZK inguage structur	e knowledge I) text and its 2 e knowledge
and perceptive and 15JBR4 Grammar and styli and perceptive and	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work was features. Practice of oral and written presentation. Language - Russian 4 istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lad communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work was features. Practice of oral and written presentation.	inguage structur vith (professiona ZK inguage structur vith (professiona	e knowledge I) text and its 2 e knowledge I) text and its
15JBR4 Grammar and styli and perceptive and	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work was features. Practice of oral and written presentation. Language - Russian 4 istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lad communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work was features. Practice of oral and written presentation. Language - Spanish 2	inguage structur vith (professiona ZK inguage structur vith (professiona	e knowledge I) text and its 2 2 e knowledge I) text and its
15JBR4 Grammar and styli and perceptive and 15JBS2 Grammatical Struc	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work was features. Practice of oral and written presentation. Language - Russian 4 istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lad communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work was 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,	anguage structur vith (professiona ZK anguage structur vith (professiona Z feedback skills,	e knowledge I) text and its 2 Re knowledge I) text and its 2 summarising
15JBR4 Grammar and styli and perceptive and 15JBS2 Grammatical Struc	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work we features. Practice of oral and written presentation. Language - Russian 4 istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lad communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work we 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	anguage structur vith (professiona ZK anguage structur vith (professiona Z feedback skills,	e knowledge I) text and its 2 Re knowledge I) text and its 2 summarising
15JBR4 Grammar and styli and perceptive and 15JBS2 Grammatical Struc	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work we features. Practice of oral and written presentation. Language - Russian 4 istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lad communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work we 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 technique of management.	anguage structur vith (professiona ZK anguage structur vith (professiona Z feedback skills,	e knowledge I) text and its 2 Re knowledge I) text and its 2 summarising
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15JBR4 Grammar and styli and perceptive and 15JBS2 Grammatical Structechnical text contection and perceptive and 15JBS3 Grammar and styli and perceptive and 15JBS4 Grammar and styli and perceptive and 15JBS4 Grammar and styli and perceptive and 15XN1 15XN2 15XN3 15XN4 15XNDM 15Y2DN Introduction into be 15Y2HS Roads and road traits part of 20th cer 15Y2JH The course provid includir 15Y2MS Sociological appri	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. Language - Russian 4 istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la 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. Language - Spanish 2 Itures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, ant, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tecl language of management. Language - Spanish 3 istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la 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. Language - Spanish 4 istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la 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. Master Project 1 Master Project 1 Master Project 3 Master Project 3 Master Project 3 Master Project 4 Master Thesis for study programme LA Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, gettir in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History affic in the Ancient Age, corridors of main mediweal pathways.	anguage structur with (professional ZK anguage structur with (professional Z feedback skills, hnical registers anguage structur with (professional ZK anguage structur with (professional ZK anguage structur with (professional Z Z Z Z Z Z Auguage structur with (professional Z Z Z Z Z Auguage structur with (professional Z Z Z Z Z Z Auguage structur with (professional Z Z Z Z Z Z Z Z Auguage structur with (professional Z Z Z Z Z Z Z Z Z Z Z Z Z	e knowledge i) text and its 2 e knowledge i) text and its 2 summarising and their use 2 e knowledge i) text and its 2 e knowledge i) text and its 2 e knowledge i) text and its 2 ne knowledge i) text and its 2 ne knowledge i) text and its 2 and their use 2 be knowledge i) text and its 2 characteristics 2 c

15V2OF	Charieland French for Transportation and Telegommunications	KZ	
15Y2OF Basic transp	Specialised French for Transportation and Telecommunications ortation (public transport, railway, air, road and ship transport) and telecommunications terminology. Special focus on independent spe		2 skills.
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 members. Fundamental principles of health protection and support in selected EU countries.	n of legislation with	h other EU
15Y2PD	Practical Spanish for Transportation	KZ	2
Development o	f communication skills, training of correct written expression of formal character, basic technical vocabulary, cultural specifics of the S Terminology of transport and commerce.	panish speaking c	ountries.
15Y2PT	Food in Transportation	KZ	2
The nutrition policy	y. Interaction transportation and foodstuffs. The health risks. Hygienic safeguard. The practical examples from the Czech Republic and dining cars, work trains and other railroad equipment. Legislation.	from the world. T	he issues o
15Y2PU	Publications and Their Creation	KZ	2
	pes. Footnotes and references. Exploration of facts. Quotations. Formal document layout. Working with information databases. Typogreeditors - MS Word, Tex/LaTeX. Practical creation of simple scientific documents.		ypographic
15Y2SP	Seminar on Political Philosophy Interpreting of philosophical texts, view of society, state and their system of government.	KZ	2
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 -		
15Y2TS Why to take off a h	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 l	KZ PC, it must be true	2 e - it's on th
	Internet and in newspapers, what are the sights for, interest in public affairs - a hangover from the past?		
15Y2ZA Theory	Basic Principles of English Academic Writing and Abstract in English , creating a phrasal bank according to students' specialisations, rhetorical analysis or texts/abstracts, drafting an abstract, providing e	KZ effective feedback.	2
16XN1	Master Project 1	Z	2
16XN2	Master Project 2	Z	2
16XN3	Master Project 3	Z	1
16XN4	Master Project 4	Z	8
16XNDM	Master Thesis for study programme LA	Z	18
16Y2EE	Emissions and Ergonomics of Vehicles	KZ	2
	onomy of vehicles and the influence on man and nature. National and international law related to the hygiene. Noise and vibrations - s		ı propagation
16Y2HP	ays of measuring, prevention, elimination. Exhausts - creation, measurement, reduction, non-regular fuels and drives. Ergonomy - sitting reach. Condition - heating, ventilation, air-conditioning, filtration, tiredom. Vehicle Hygiene	KZ	2
_	onomy of vehicles and the influence on man and nature. National and international law related to the hygiene. Noise and vibrations - s ays of measuring, prevention, elimination. Exhausts - creation, measurement, reduction, non-regular fuels and drives. Ergonomy - sitting reach. Condition - heating, ventilation, air-conditioning, filtration, tiredom.		
16Y2KV	Car Body Design	KZ	2
	body, high-load car body, bus car body, and motorcycle as a construction set. Principles of design, production, testing and operation.		1
construction. Activ	e and passive safety parts. Ergonomics, HMI, view out of the vehicle, operational extent, view behind the car. Conditioning tools, sigr of the car body. Design and artistic design principles. Practical training.	aling function. Ae	rodynamics
16Y2MK	Quality Methods for Vehicles	KZ	2
Quality manageme	nt methods list, customer data acquisition and analysis of customer requirements, QFD, DFM, DFA, DFS. FMEA (Failure mode effect (team) design.	analysis). Elemen	ts of paralle
16Y2PG	Computer Graphics and Virtual Reality	KZ	2
	on and processing of bitmap and vector 2D graphics, 3D virtual scenes and algorithms used for their computerized processing. Adopting		
	eware tools for creation and processing of 2D, 3D and interactive graphics, and basics of programming language VRML and graphic I		
16Y2ST	Special Technologies in Transport and Telecommunications	KZ	2
Micro, nano and	special technologies, electric arc and its applications, plasma technologies, dipping, beam technologies, electron beams technology		nending of
16Y2SV	vehicles, laser and laser technologies, soldering, gluing, ultrasound, diffusion, friction and explosion technologies, micro stoves		2
	Special technologies in vehicle manufacturing special technologies, electric arc and its applications, plasma technologies, dipping, beam technologies, electron beams technology	KZ in roduction and m	1
	vehicles, laser and laser technologies, soldering, gluing, ultrasound, diffusion, friction and explosion technologies, micro stoves	, gas.	
16Y2TT	Transportation and Building Technology and Equipment	KZ	2
•	and building technology and equipment. Transport of solid and mass material, soil and rock above all. Highway and underground cons		
	on and construction features, delivered mass calculation, economy of operation. Technics and technology of underground constructions management methodology (ultrasound, laser, GPS, total stations).		
17AMAN Strategic marketing	Application of Marketing Tools in Transport Industry	KZ	3
17DOCH	g plans. Implementation of marketing campaigns. Branding and brand promotion. Multimedia presentations. Direct marketing and relate Travel Behavior	KZ	campaigns
	ITAVEL DETIDITION		_
_	n). Analysis and interpretation of data (advanced regression models; issues of analysis and interpretation of results: effect size, practice. Analysis and interpretation of data (advanced regression models; issues of analysis and interpretation of results: effect size, practice. Analysis and interpretation of data (surveys, choice exp., panel. data).	-	
17DOPM	Transportation Planning and Modeling	Z,ZK	6
	ols used within four step model (trip generation, trip distribution, mode choice and trip distribution). Mobility and availability in urban a transportation planning and modelling.		1
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		1
	odels of integer linear programming. Besides the use of exact methods there are described simple and also more sofisticated heuristic	-	

	Logistics in Smart Cities	Z,ZK	6
•	ties in time, city and region, mobility of city residents and movement of goods, sustainability as a concept, Smart Cities, city as a syste	•	
of life, individual qu	iality of life, city "smartness" assessment, legislation in Smart Cities, Smart Cities transformation, last mile logistics, e-commerce, new appropriate transformation of the commerce of the	oproaches in last r	mile logistics
4714450	last mile logisites in cities and in regions.	1/7	
17MADS	Management of Transport Systems	KZ killa	2
17MID	Functions, processes and systems of management in transport, organisational structures, strategy, social responsibility, soft sl	Z,ZK	1 2
	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 t	•	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		-
34100 1004000 011	budget, the basic documents for the possible assignment of the contract.		u io iliianoi
17PPC	Carriage Processes	ZK	3
	Domestic carriages, international carriages, nomenclature of goods, pricing, contracting, responsibility for damages.		1
17RKOP	Management of commercial projects in transport	Z,ZK	3
	customer, activities, output - quality, time, money), project surroundings, location of the project (area analysis, traffic flows, authorization)		ganizationa
ructure of the pro	oject, sources of financing, customer-supplier relations, feasibility studies, sensitivity and multi-criteria analysis, financial and value an	alysis, managem	ent of proje
	changes.		
17RVIP	Public Project Management in Transport	Z,ZK	5
asic concepts of p	project management in the public sector, used procedures and standards of project management, organizational structure in project management	-	oublic secto
	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		
arameters 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	е огорита
17TZND	Technology of Railway Transport	Z.ZK	4
	y assesment, model operational situation with a system running time between IPT-nodes, calculation of traction energy savings comp.	,	1
	eeting crossing station, solving of capacity problem and blocking time in relation to train protection system, robustness of timetable, sy		
ior doorgriiing or ii	paths, guidelines for centralised operational traffic control and management.	, 5.5 5555p. 5.	o.g
17TZOR	Inventory, Replacement and Scheduling Theory	Z,ZK	3
	r - introduction, static models, deterministic dynamic models, stochastic dynamic models. Replacement theory - introduction, models for	•	
	ne, models for replacement of items that fail completely. Scheduling theory - introduction, single machine scheduling problems, parallel	•	
	flow shop scheduling problems and job shop scheduling problems.		
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	· · · ·	_	.0
1 / Y / AIVI	Application of Marketing Tools in Transportation	K7	2
	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 pi	KZ ublic passenger ti	ansport.
	marketing principles in transport issues, marketing tools suitable for transport, case studies of the use of marketing in the sphere of pu		l .
Application of 17Y2FM		ublic passenger to	ransport.
Application of 17Y2FM UMT history and of	marketing principles in transport issues, marketing tools suitable for transport, case studies of the use of marketing in the sphere of principles in transport issues, marketing tools suitable for transport, case studies of the use of marketing in the sphere of principles in transport issues, marketing tools suitable for transport, case studies of the use of marketing in the sphere of principles in transport issues, marketing tools suitable for transport, case studies of the use of marketing in the sphere of principles in transport issues, marketing tools suitable for transport, case studies of the use of marketing in the sphere of principles in transport issues.	ublic passenger to KZ building and open	ransport. 2 ration. Othe
Application of 17Y2FM JMT history and of	marketing principles in transport issues, marketing tools suitable for transport, case studies of the use of marketing in the sphere of principles in transportation. Evelopment in Prague and other cities in the world. Building and operation of public tram, bus, and trolleybus networks. Underground	ublic passenger to KZ building and open	ransport. 2 ration. Othe
Application of 17Y2FM JMT history and o UMT types. UMT	marketing principles in transport issues, marketing tools suitable for transport, case studies of the use of marketing in the sphere of pi Financing in Urban Mass Transportation 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 UMT types. Historic and present models inspection and blind passengers. Tourism & DMT. UMT typology & DMT. UMT typol	ublic passenger to KZ building and oper s of UMT financin	ransport. 2 ration. Othe g. Transpor
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18Y2DC	Dynamics of Transport Routes and Vehicles	KZ	2
	lculations of more mass systems. Analysis of the forces acting between the vehicle and transport route. Creation of dynamic models of	vehicles and trans	sport routes.
Vibration of systems	s with a finite number of degrees of freedom. Methods of stiffness constants and pliability constants. Fundamentals of vibration of bridge	es. Criteria for the	admissibility
	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 construction and extraording to the construction of the		
analysis, quantific	ation of results and automation of data processing, energy dispersive X-ray microanalysis and other analytical methods in electron m obtained from ED detector, practical examples of ED microanalysis on samples.	icroscopy. Evalua	tion of data
18Y2FZ	Physical foundation of materials' properties	KZ	2
Atomistic models,	attice defects influence on properties of materials, stiffness, plasticity, strength, fracture, fatigue, creep, corrosion, effects of environment	ent 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 Siples. Element formulation (bar and beam elements, CST, LST, quadrilateral, tetrahedral and brick elements). Natural coordinates, na		٠ ا
variational print	isoparametric representation. Numerical integration. Introduction to dynamics. FEM programming.	itarar oriapo rariot	iono ana
18Y2OB	Optical Contactless Strain Measurements	KZ	2
In the course stud	lents will get theoretical knowledge and practical experience in optical strain measurement methods. Students will get experience with		y cameras,
DSLRs and high	speed cameras for acquisition of suitable image data and with digital image correlation algorithms for displacements measurements	and strain fields c	alculation.
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 procedure		
defects and determ	ination of residual life of structures. For this purpose, non-destructive methods of experimental mechanics (e. g. strain-gauge measure	ment, photoelasti	cimetry) and
18Y2UB	optical methods, including electron microscopy, will be used. Accident Biomechanics and Safety	KZ	2
	ethods 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.	g	
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	SYS on instances	
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
	Macter Tricele for etady programme Ext		
20Y2PR	Prediction of time series	KZ	2
20Y2PR Introduction to time	Prediction of time series series prediction, meaning of prediction, basics of quantitative prediction. Methods for predictive quality evaluation, descriptive statistic	KZ cs, MAE, MAPE, F	2 RMSE, naive
20Y2PR Introduction to time	Prediction of time series series prediction, meaning of prediction, basics of quantitative prediction. Methods for predictive quality evaluation, descriptive statistic ion for general formula of loss function. Calculation and programming environment R. Regression models, basics of linear regression	KZ cs, MAE, MAPE, F	2 RMSE, naive
20Y2PR Introduction to time prediction, predict	Prediction of time series series prediction, meaning of prediction, basics of quantitative prediction. Methods for predictive quality evaluation, descriptive statistic ion 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.	KZ cs, MAE, MAPE, F , simple regression	2 RMSE, naive on. Multiple
20Y2PR Introduction to time prediction, predict	Prediction of time series series prediction, meaning of prediction, basics of quantitative prediction. Methods for predictive quality evaluation, descriptive statistic ion 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. Technology of Electronic Systems	KZ cs, MAE, MAPE, F , simple regression	2 RMSE, naive on. Multiple
20Y2PR Introduction to time prediction, predict	Prediction of time series series prediction, meaning of prediction, basics of quantitative prediction. Methods for predictive quality evaluation, descriptive statistic ion 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.	KZ cs, MAE, MAPE, F , simple regression	2 RMSE, naive on. Multiple
20Y2PR Introduction to time prediction, predict 20Y2TE Principle technolog	Prediction of time series series prediction, meaning of prediction, basics of quantitative prediction. Methods for predictive quality evaluation, descriptive statistic ion 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. Technology of Electronic Systems ies for an effective operation of electronically controlled systems. Maintaining, meassuring, optimization of safety and reliability of comtechnologies, printed circuits, assembly operations, interconnection and repairs technologiesusers and operators.	KZ cs, MAE, MAPE, F , simple regressio KZ nplex systems. Se	2 RMSE, naive on. Multiple 2 miconductor
20Y2PR Introduction to time prediction, predict	Prediction of time series series prediction, meaning of prediction, basics of quantitative prediction. Methods for predictive quality evaluation, descriptive statistic ition 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. Technology of Electronic Systems ies for an effective operation of electronically controlled systems. Maintaining, meassuring, optimization of safety and reliability of comtechnologies, printed circuits, assembly operations, interconnection and repairs technologiesusers and operators. Master Project 1	KZ cs, MAE, MAPE, F , simple regressio KZ nplex systems. Se	2 RMSE, naive on. Multiple
20Y2PR Introduction to time prediction, predict 20Y2TE Principle technolog	Prediction of time series series prediction, meaning of prediction, basics of quantitative prediction. Methods for predictive quality evaluation, descriptive statistic 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. Technology of Electronic Systems lies for an effective operation of electronically controlled systems. Maintaining, meassuring, optimization of safety and reliability of contechnologies, printed circuits, assembly operations, interconnection and repairs technologiesusers and operators. Master Project 1 Master Project 2	KZ cs, MAE, MAPE, F , simple regression KZ nplex systems. Se	2 RMSE, naive on. Multiple 2 miconductor
20Y2PR Introduction to time prediction, predict 20Y2TE Principle technolog 21XN1 21XN2 21XN3	Prediction of time series series prediction, meaning of prediction, basics of quantitative prediction. Methods for predictive quality evaluation, descriptive statistic ion 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. Technology of Electronic Systems lies for an effective operation of electronically controlled systems. Maintaining, meassuring, optimization of safety and reliability of come technologies, printed circuits, assembly operations, interconnection and repairs technologiesusers and operators. Master Project 1 Master Project 2 Master Project 3	KZ cs, MAE, MAPE, F , simple regression KZ cplex systems. Se Z Z Z	2 RMSE, naive on. Multiple 2 miconductor 2 2 1
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20Y2PR Introduction to time prediction, predict 20Y2TE Principle technolog 21XN1 21XN2 21XN3 21XN4 21XNDM 21Y2CR Introduction to CRI	Prediction of time series series prediction, meaning of prediction, basics of quantitative prediction. Methods for predictive quality evaluation, descriptive statistic iron 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. Technology of Electronic Systems ies for an effective operation of electronically controlled systems. Maintaining, meassuring, optimization of safety and reliability of contechnologies, printed circuits, assembly operations, interconnection and repairs technologiesusers and operators. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Master Thesis for study programme LA CRM	KZ cs, MAE, MAPE, F , simple regression KZ nplex systems. Se Z Z Z Z KZ an body. Fatigue S	2 RMSE, naive on. Multiple 2 miconductor 2 2 1 8 18 2 Sleep & amp;
20Y2PR Introduction to time prediction, predict 20Y2TE Principle technolog 21XN1 21XN2 21XN3 21XN4 21XNDM 21Y2CR Introduction to CRI Vigilance. I	Prediction of time series series prediction, meaning of prediction, basics of quantitative prediction. Methods for predictive quality evaluation, descriptive statistic ion 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. Technology of Electronic Systems ies for an effective operation of electronically controlled systems. Maintaining, meassuring, optimization of safety and reliability of come technologies, printed circuits, assembly operations, interconnection and repairs technologiesusers and operators. Master Project 1 Master Project 2 Master Project 3 Master Project 3 Master Project 4 Master Project 4 Master Thesis for study programme LA 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 & Amp; Team B Aviation Company Financial Management	KZ cs, MAE, MAPE, F , simple regression KZ nplex systems. Se Z Z Z Z Z KZ an body. Fatigue S ehaviour. Automat KZ	2 RMSE, naive on. Multiple 2 miconductor 2 2 1 8 18 2 Sleep & amp; tion. 2
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21Y2PP	Law and Operation in Air Transport	KZ	2
Development of aviation	aw. International conventions on civil aviation. International organisations and including of the Czech Republic in these organ	nisations. EU legislat	tion and civi
aviation. Execution of	state administration and state supervision in matters of civil aviation, in accordance with Act No. 49/1997 Col. Facilitation. Res	sponsibilities of air c	arriers 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
	ation, multi body systems and vehicle active safety systems, vehicle slipping, external influence on virtual model, crash tests		
	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
l I	ics include data management, data and text mining applications, terrorism informatics, deception and intent detection, terrori	I	_
·	alysis, crime analysis, cyber-infrastructure protection, transportation infrastructure security, and information assurance, amor		
23Y2FB	Physics for Security Branches	KZ	2
	f substances and phenomena at extreme conditions. Grounds of rheology. Physics of Earth's interior. Geophysics. Physics of	1	ations in
	dengineering branches directed to safety.		
23Y2MA	Risk Analysis and Management	KZ	2
Concept of risks and ter	ns. Risk sources, definition of hazard, impacts and risks. Methods for identification, analysis, assessment and management of	of risks. Risk enginee	ring target
and good engineering p	ractice. Methods, tools and techniques for risk engineering. System of systems risk. Application of strategic and system appr	oach for benefit of se	ecurity and
	development. Territorial, emergency and crisis planning. Human factor - its role.		
23Y2PD	Practical vehicle dynamics	KZ	2
Theory of vehicle dynan	ics. Multibody vehicle modeling. Modeling with IPG CarMaker. Standard and development stage experiments with road vehic	les. Realization of e	xperimental
	measurements with passenger vehicles. Experiment evaluation.		_
23Y2TP	Creation of legal and technical regulations	KZ	2
Creation of legislation	structure of the bills of law, legal process, compatibility with the EC law, the creation of technical standards and their publical	•	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
Types of engineering bra	nches directed to risks, procedures used in risk engineering, ensuring the secured systems, ensuring the safe systems, ensur	ing the safe systems	of systems
23Y2VZ	Leadership and Human Resource Development	KZ	2
•	of human resources, human resources management, corporate goals, strategies, cultural and ethical aspects. Team manage		on in teams
	gy and planning in human resources, ethics and corporate culture, cross-cultural differences. The labor code. Introduction in	i	
23Y2ZM	Intelligence Means and Methods	KZ	2
P 4 101	intelligence services and their role in the modern world. How intelligence services handle with information. Methods and proced	tures of collection an	nd evaluating
		•	•
	elligence services. Internal and external intelligence, military intelligence. The means and methods of state security services. services within NATO, EU. The organization of the intelligence services.	•	•

For updated information see http://bilakniha.cvut.cz/en/FF.html Generated: day 2024-05-20, time 03:36.