## Study plan

## Name of study plan: LA nav.prez.17/18

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch:

Program of study: Technology in Transportation and Telecommunications

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 17/18

Name of the group: 1.sem.nav.prez.LA od 15/16

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
11TER	Game Theory and Optimal Decision-Making Magdalena Hykšová Magdalena Hykšová (Gar.)	ZK	2	2P+0C+8B	Z	Z
17RLOG	Supply Chains Management	Z,ZK	5	2P+2C	Z	Z
17RZO	Management of Inventory and Renewal, Schedules in Logistics	Z,ZK	4	2P+1C	Z	Z
17TZD	Technology of Railway Transport	Z,ZK	4	2P+2C	Z	Z
11LP2	Linear Programming 2	KZ	3	2P+1C	Z	Z
14PPRP	Computer Aided Project Management Marek Kalika Marek Kalika (Gar.)	KZ	2	0P+2C	L	Z
17TRI	Creation and Control of Investment Projects	KZ	2	2P+0C	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

#### Characteristics of the courses of this group of Study Plan: Code=1.S.NPLA 17/18 Name=1.sem.nav.prez.LA od 15/16

11TER	Game Theory and Optimal Decision-Making	ZK	2
Decision-making theor	, utility theory. Explicit form games, backward induction. Normal form games. Antagonistic conflict, matrix games. Repeated of	games, evolutiona	ry game theory.
Cooperative games wit	hout transferable payoffs. Cooperative games with transferable payoffs (imputation, core, Shapley value, nucleolus). Applicati	ons of game theo	ry above all in
economics and transpo	ortation.		
17RLOG	Supply Chains Management	Z,ZK	5
Logistics chain. Logistic	s system. Horizontal and vertical dimensions of logistics integration. Types of logistics chain. Logistics chain with continual flu	ows, with interrupt	ed flows, with
synchronous flows. Ma	nagement based on planning in closed circle with information feedback. Possible position of decoupling point in a logistics ch	ain. Chain effects	. Case studies.
17RZO	Management of Inventory and Renewal, Schedules in Logistics	Z,ZK	4
The course is focused of	n optimizing inventory management, maintenance and equipment renewal. In addition to classification models, inventory and r	enovation, studer	its will be familiar
with the basic details of	deterministic and stochastic inventory models and renewal. In the second part, attention will be paid to the models of theory	schedules as mod	lels of Job-Shop,
Flow-Shop, Open-Shop	and methods of schedules optimization.		
17TZD	Technology of Railway Transport	7.7K	4

Track line capacity assessment, model operational situation with a system running time between IPT-nodes, calculation of traction energy savings compared with infrastructure costs 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 centralised operational traffic control and management.

11LP2	Linear Programming 2	KZ	3
Task formulation and i	s solution in Excel. Integer linear programming, binary linear programming. Mixed linear programming, practical examples (tra	nsportation proble	em, epidemy of
infectious disease, pro	blem of order, problem of service).		
14PPRP	Computer Aided Project Management	KZ	2
What is the project? T	ne basic terms a concepts of project management. Life cycle of the project and its phased approach. Analysis and specificatio	n of the assignme	ent, activity
definition, stages, obje	ctives and measurability. Risk events and risk planning. Project change management during implementation. Preparation of th	e project outline (	activities,
restrictions, assignme	nts, calendars etc.) Project planning and optimization - time, resources.		
17TRI	Creation and Control of Investment Projects	KZ	2
Technical-economic d	ata processing of investment porioject, design of logistics systems, methodology of technological and logistic centres design p	roposal, value en	gineering.
17TSI	Technology of Road Transport	KZ	2
Legislative, operationa	I, technical, logistic and safety conditions of road transport, basic transport technologies, special transport, international agree	ments, requireme	ents on the
parameters and speci	alization of transport, handling and loading/unloading means, maintenance, service and repairs of road vehicles, safety of roac	I transport and ch	oice of optimal
transport unit.			
15J2A1	Language - English 1	Z	2
Presentation Skills - e	opert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.	'	

Code of the group: 2.S.NPLA 15/16

Name of the group: 2.sem.nav.prez.LA od 15/16

Requirement credits in the group: In this group you have to gain 22 credits

Requirement courses in the group: In this group you have to complete 7 courses

Credits in the group: 22 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
11THRO	Queuing Theory Šárka Vorá ová <b>Šárka Vorá ová</b> Šárka Vorá ová (Gar.)	ZK	2	2P+0C+8B	L	Z
17KMD	Quantitative Methods in Transport Denisa Mocková, Dušan Teichmann Denisa Mocková (Gar.)	Z,ZK	6	2P+2C	L	Z
17MGD	Management of Transport Systems	Z,ZK	3	2P+1C+8B	L	Z
17MID	Managerial Information Systems in Transport Václav Baroch Václav Baroch (Gar.)	Z,ZK	3	2P+1C+10B	L	Z
23MAR	Risk Analysis and Management	Z,ZK	3	2P+1C+10B	L	Z
14MTKS	Telecommunications Systems Management	KZ	3	2P+1C+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 15/16 Name=2.sem.nav.prez.LA	od 15/16	
11THRO	Queuing Theory	ZK	2
	ss, definition, random distribution, and probability. Basic processes, process of revitalisation. Markov process, Markov models, K		n, model M/M/1,
models M/M/n. Non-r	narkovian models, model M/C/n, models G/G/n. Models with continuous flow. Service net, examples of Petri net. Computer sim	ulation.	
17KMD	Quantitative Methods in Transport	Z,ZK	6
The course focuses of	on the issue of the use of undirected graphs tree type, planar graphs and their coloring. Further distribution problems, facility loc	ation problems are	formulated and
solved such as mode	ls of integer linear programming. Besides the use of exact methods there are described simple and also more sofisticated heu	ristics (metaheuris	tics) methods.
17MGD	Management of Transport Systems	Z,ZK	3
Functions, processes	and systems of management in transport, organisational structures, strategy, social responsibility, soft skills.		
17MID	Managerial Information Systems in Transport	Z,ZK	3
IT and their use in bu	ilding IS of modern transport company. New EU legislation on cyber security and data protection puts transport organizations	in front of new chal	lenges. The
course focuses on th	e security of IS and possible sources of danger. The practical part deals with the process of building a new IS from the idea thro	ough the timetable a	and the financial
budget, the basic do	cuments for the possible assignment of the contract.		
23MAR	Risk Analysis and Management	Z,ZK	3
Concept of risks and	terms. Risk sources, definition of hazard, impacts and risks. Methods for identification, analysis, assessment and managemen	t of risks. Risk eng	neering targets
and good engineerin	g practice. Methods, tools and techniques for risk engineering. System of systems risk. Application of strategic and system app	roach for benefit of	security and

Contemporary status and future expectations in area of telecommunications networks and telecommunications services provisioning; introduction of basic managerial principles applied in provisioning of guaranteed level of telecommunications services quality, redundant telecommunications networking concept, networks and services management tools and position

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Code of the group: 3.S.NPLA 16/17

15JBA2

Name of the group: 3.sem.nav.prez.LA od 16/17

development. Territorial, emergency and crisis planning. Human factor - its role.

Language - English 2

Telecommunications Systems Management

Requirement credits in the group: In this group you have to gain 25 credits

Requirement courses in the group: In this group you have to complete 7 courses

Presentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.

Credits in the group: 25 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
11DOPM	Transportation Planning and Modeling	Z,ZK	6	2P+2C	Z	Z
11STS	Stochastic Systems Šárka Vorá ová, Evženie Uglickich, Natálie Blahitka, Michal Matowicki, Pavla Pecherková <b>Pavla Pecherková</b> Šárka Vorá ová (Gar.)	Z,ZK	4	2P+2C+14B	s z	Z
17HDI	<b>Evaluation of Transport Investments</b>	Z,ZK	5	2P+2C	Z	Z
17PPC	Carriage Processes Roman St rba	ZK	3	2P+0C	Z	Z
14NDB	Databases Design and Programming	KZ	2	0P+2C	Z	Z
23KRIO	Crisis Management for Engineering Branches	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+10B	s z	Z

transportation planning and moderate transportation planning and moderate transportation tasks. Note that the problem is a subject deals with the problem in	in four step model (trip generation, trip distribution, mode choice and trip distribution). Mobility and availability in urbadelling.  nastic Systems lems of mathematical modelling of dynamical systems, estimation od these models and their utilization for prediction lathematical theory roots from probability and mathematical statistics and they use the methods of the Bayesian projection of Transport Investments all economy, costs of transport companies, transport and environment, externalities and their solution, investments in valuation of transport investments by CBA.  age Processes al carriages, nomenclature of goods, pricing, contracting, responsibility for damages.	Z,ZK n. The results are ill babilistic approach Z,ZK	4 lustrated on n.
11STS Stoc The subject deals with the prob practical transportation tasks. N 17HDI Evalu Transport and its role in nationa multiplier effects of transport; e 17PPC Carri Domestic carriages, internation	nastic Systems lems of mathematical modelling of dynamical systems, estimation od these models and their utilization for prediction lathematical theory roots from probability and mathematical statistics and they use the methods of the Bayesian prolution of Transport Investments all economy, costs of transport companies, transport and environment, externalities and their solution, investments in valuation of transport investments by CBA.  age Processes	n. The results are ill shabilistic approach Z,ZK transport and their	lustrated on  5 r evaluation, th
The subject deals with the probractical transportation tasks. M 17HDI Evali Transport and its role in national multiplier effects of transport; e 17PPC Carri Domestic carriages, internation 14NDB Data	lems of mathematical modelling of dynamical systems, estimation od these models and their utilization for prediction lathematical theory roots from probability and mathematical statistics and they use the methods of the Bayesian provinction of Transport Investments and environment, externalities and their solution, investments in valuation of transport investments by CBA.  age Processes	n. The results are ill shabilistic approach Z,ZK transport and their	lustrated on  5 r evaluation, th
practical transportation tasks. Matter 17HDI Evaluations	lathematical theory roots from probability and mathematical statistics and they use the methods of the Bayesian pro uation of Transport Investments il economy, costs of transport companies, transport and environment, externalities and their solution, investments in valuation of transport investments by CBA.	babilistic approach Z,ZK transport and their	5 r evaluation, th
17HDI Evali Transport and its role in national multiplier effects of transport; e 17PPC Carri Domestic carriages, internation 14NDB Data	uation of Transport Investments Il economy, costs of transport companies, transport and environment, externalities and their solution, investments in valuation of transport investments by CBA.  age Processes	Z,ZK transport and their	5 r evaluation, th
Transport and its role in national multiplier effects of transport; ending the national multiplier effects of transport; ending transport; ending transport; ending transport; ending transport tran	age Processes	transport and their	r evaluation, th
multiplier effects of transport; e 17PPC Carri Domestic carriages, internation 14NDB Data	valuation of transport investments by CBA. age Processes		
17PPC Carriages, internation 14NDB Data	age Processes	ZK	3
Domestic carriages, internation   Data	<del>-</del>	ZK	3
14NDB Data	al carriages, nomenclature of goods, pricing, contracting, responsibility for damages		
	al carriages, nomenciature of goods, pricing, contracting, responsibility for damages.		
Database design, data types, c	pases Design and Programming	KZ	2
	onstraints, SQL statements for data definition, data manipulation, transaction management, connection managemen	nt and system admir	nistration,
single-row, aggregation and SC	L analytic functions. PL / SQL - variables, loops, conditions, procedures, functions, triggers, packages, cursors, exce	eptions.	
23KRIO Crisi	s Management for Engineering Branches	KZ	3
luman system. Assets, terms,	concept and safety management aims. Causes and consequences of disasters. Safety management. Crisis manage	ement-its aims, dem	nands, roles,
orinciples, specifics and compa	ridon with the EU and NATO. Organisational, personal, legislative, finance, material and technical provision. The IZS	role. Planning. Pro	tection of pub
and critical infrastructure. Probl	em solving.		
15JBA3 Lang	uage - English 3	Z	2

Code of the group: XNDP 13/14

Name of the group: Diplomová práce (obory PL, DS, LA +[ID]) od 13/14 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
11XNDP	Master Thesis Evženie Uglickich	KZ	18	0P+20C+70B	L	Z
12XNDP	Master Thesis	KZ	18	0P+20C+70B	L	Z
15XNDP	Master Thesis	KZ	18	0P+20C+70B	L	Z
16XNDP	Master Thesis	KZ	18	0P+20C+70B	L	Z
17XNDP	Master Thesis	KZ	18	0P+20C+70B	L	Z
14XNDP	Master Thesis	KZ	18	0P+20C+70B	L	Z
20XNDP	Master Thesis	KZ	18	0P+20C+70B	L	Z
21XNDP	Master Thesis Slobodan Stoji , Miloš Strouhal, Vladimír Socha, Peter Vittek, Iveta Kameníková, Petr Had, Petr Lukeš, Stanislav Pleninger, Petr en k,	KZ	18	0P+20C+70B	L	Z
22XNDP	Master Thesis Luboš Nouzovský	KZ	18	0P+20C+70B	L	Z
23XNDP	Master Thesis	KZ	18	0P+20C+70B	L	Z

18XNDP	Master The	esis		KZ	18	0P+20C+70B	L	Z
Characteristic	s of the courses of	this group of Study Plar	n: Code=XNDP 13/14 Name=	:Diplomová p	ráce (ob	ory PL, DS	S, LA +[II	D]) od 13/14
11XNDP	Master Thesis					ŀ	<z< td=""><td>18</td></z<>	18
12XNDP	Master Thesis					ŀ	<z< td=""><td>18</td></z<>	18
15XNDP	Master Thesis					ŀ	<z< td=""><td>18</td></z<>	18
16XNDP	Master Thesis					ŀ	<z< td=""><td>18</td></z<>	18
17XNDP	Master Thesis					ŀ	<z< td=""><td>18</td></z<>	18
14XNDP	Master Thesis					ŀ	<z< td=""><td>18</td></z<>	18
20XNDP	Master Thesis					ŀ	<z< td=""><td>18</td></z<>	18
21XNDP	Master Thesis					ŀ	⟨Z	18
22XNDP	Master Thesis					ŀ	<z< td=""><td>18</td></z<>	18

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ΚZ

Code of the group: 4.S.NP 12/13

**Master Thesis** 

**Master Thesis** 

Name of the group: 4.sem.nav.prez.(obory DS, LA; [PL] + [ID]) od 12/13 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:

23XNDP

18XNDP

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

# Characteristics of the courses of this group of Study Plan: Code=4.S.NP 12/13 Name=4.sem.nav.prez.(obory DS, LA; [PL] + [ID]) od 12/13

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 f	or certificates
FCE, CAE.			

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

The role of the block: ZP

Code of the group: XN1-4 14/15

Name of the group: Projekty nav.prez.1.-4.sem (obory PL + DS, LA, [BT]) od 14/15

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	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 emysl Toman	Z	2	0P+2C+4B	Z	ZP
17XN1	Master Project 1 Michal Drábek, Denisa Mocková, Dušan Teichmann, Václav Baroch, Alexandra Dvo á ková, Veronika Faifrová, Eliška Glaserová, Rudolf F. Heidu, Tomáš Horák,	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 Slobodan Stoji , Vladimír Socha, Peter Vittek, Jakub Steiner, Terézia Pilmannová, Jakub Kraus, Andrej Lališ, Jakub Hospodka, Lenka Hanáková,	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	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	Z	2	0P+2C+8B	L	ZP
15XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
16XN2	Master Project 2 P emysl Toman, Josef Mik	Z	2	0P+2C+8B	L	ZP
17XN2	Master Project 2 Michal Drábek, Denisa Mocková, Dušan Teichmann, Václav Baroch, Roman Št rba, Alexandra Dvo á ková, Veronika Faifrová, Rudolf F. Heidu, Tomáš Horák, 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	Z	2	0P+2C+8B	L	ZP
21XN2	Ji í R ži ka, Patrik Horaž ovský  Master Project 2	Z	2	0P+2C+8B	L	ZP
22XN2	Master Project 2		2	0P+2C+8B		
	Michal Frydrýn, Karel Kocián, Luboš Nouzovský, Zden k Svatý, Jakub Nová ek				L	ZP
23XN2	Master Project 2	Z	2	0P+2C+8B	<u>L</u>	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 Pemysl Toman, Josef Mik, Michal Cenkner, Josef Svoboda	Z	1	0P+4C	Z	ZP
17XN3	Master Project 3 Michal Drábek, Denisa Mocková, Dušan Teichmann, Václav Baroch, Alexandra Dvo á ková, Veronika Faifrová, Eliška Glaserová, Rudolf F. Heidu, Tomáš Horák,	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 Miloš Strouhal, Terézia Pilmannová	Z	1	0P+4C	Z	ZP
22XN3	Master Project 3 Michal Frydrýn, Karel Kocián, Luboš Nouzovský, Zden k Svatý, Tomáš Mi unek	Z	1	0P+4C	Z	ZP
23XN3	Master Project 3	Z	1	0P+4C	Z	ZP
11XN4	Master Project 4	Z	8	0P+4C	L	ZP
12XN4	Master Project 4 Zuzana arská, Dagmar Ko árková, Kristýna Neubergová, Martin Jacura, Jan Kruntorád, Ond ej Trešl, David Vodák, Tomáš Javo ík, Pavel Purkart,	Z	8	0P+4C	L	ZP
14XN4	Master Project 4	Z	8	0P+4C	L	ZP
15XN4	Master Project 4	Z	8	0P+4C	L	ZP
16XN4	Master Project 4 Josef Mik, Michal Cenkner	Z	8	0P+4C	L	ZP
17XN4	Master Project 4 Michal Drábek, Denisa Mocková, Dušan Teichmann, Václav Baroch, Roman Št rba, Alexandra Dvo á ková, Veronika Faifrová, Rudolf F. Heidu, Tomáš Horák, 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 , Miloš Strouhal, Vladimír Socha, Peter Vittek, Iveta Kameníková, Petr Had, Petr Lukeš, Stanislav Pleninger, Jakub Steiner,	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
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Characteristics of the courses of this group of Study Plan: Code=XN1-4 14/15 Name=Projekty nav.prez.1.-4.sem (obory PL + DS, LA, [BT]) od 14/15

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-NP 17/18

Name of the group: PVP nav.prez.(DS, LA, [BT]) 17/18

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 Zuzana Kosová	KZ	2	2P+0C	Z	PV

21Y2BS	Unmanned aircraft systems 2 Tomáš Tlu ho , Michal erný	KZ	2	2P+0C	L	PV
14Y2C1	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
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
17Y2FM	Financing in Urban Mass Transportation  Václav Baroch	KZ	2	2P+0C	Z	PV
11Y2FX	Functions of Complex Variable	KZ	2	2P+0C	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
17Y2KI	Capital Investment in Transportation and Telecommunications	KZ	2	2+0	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+8B	L	PV
11Y2LG	Logics of Engineer's Judgement	KZ	2	2P+0C	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+8B	Z	PV
12Y2MH	Measurement and Modeling of Traffic Noise	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
17Y2MS	Microsimulation of Railway Operation  Zden k Michl	KZ	2	2P+0C	Z	PV
21Y2MS	Aerospace Engineering Simulation and Modelling	KZ	2	2P+0C	Z	PV
12Y2MZ	Modernization of Railway Lines and Stations Dagmar Ko árková, Miroslav Veliš	KZ	2	2P+0C	L	PV
14Y2OP	Object Oriented Programming in Transport	KZ	2	2P+0C	L	PV
15Y2OZ	Health Protection in Transportation and EU  Eva Rezlerová, Petr Musil	KZ	2	2P+0C	Z	PV
15Y2OF	Specialised French for Transportation and Telecommunications	KZ	2	2P+0C	Z	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
15Y2PD	Practical Spanish for Transportation	KZ	2	2P+0C	Z	PV
15Y2PS	Practical Spanish for Transportation, Management and Business	KZ	2	2+0	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
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
17Y2PS	Case Studies in Transportation	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 Vít Janoš Vít Janoš (Gar.)	KZ	2	2P+0C	L	PV
16Y2ST	Special Technologies in Transport and Telecommunications	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
17Y2SK	Urban and Regional Rail Transport System	KZ	2	2P+0C	L	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
21Y2TL	Development Trends of Aircraft Construction	KZ	2	2+0	Z	PV
12Y2UD	Sustainable Transportation	KZ	2	2P+0C	L	PV
14Y2UI	Artificial Intelligence	KZ	2	2P+0C+8B	Z,L	PV
20Y2UA	Artificial Neural Networks, Realization and Applications	KZ	2	2P+0C	Z	PV
18Y2UB	Accident Biomechanics and Safety	KZ	2	2P+0C	L	PV
23Y2VZ	Leadership and Human Resource Development	KZ	2	2P+0C	L	PV
21Y2VA	Selected Chapters of Aerodynamics	KZ	2	2P+0C+8B	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
12Y2VT	High Speed Railways	KZ	2	2P+0C	Z	PV
12Y2ZK	Traffic Calming Zuzana arská	KZ	2	2P+0C	Z	PV
23Y2ZM	Intelligence Means and Methods Miloslav Ku era	KZ	2	2P+0C	Z	PV

Characteristics of the courses of this group of Study Plan: Code=Y2-NP 17/18 Name=PVP nav.prez.(DS, LA, [BT]) 17/18

Characteristics o	r the courses of this group of Study Plan: Code=Y2-NP 17/18 Name=PVP nav.prez.(DS, LA, [	סווו (נום	
17Y2AM	Application of Marketing Tools in Transportation	KZ	2
Application of marketing	g principles in transport issues, marketing tools suitable for transport, case studies of the use of marketing in the sphere of pu	blic passenger tr	ansport.
12Y2BM	Safety on The Local Roads	KZ	2
Classification of road a	cidents rates, social looses. Collision points, diagrams. Tools and methods for safer road transportation. Crossroads from the po	int 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
	ics include data management, data and text mining applications, terrorism informatics, deception and intent detection, terroris s, cyber-infrastructure protection, transportation infrastructure security, and information assurance, among others.	t and criminal so	cial network
21Y2BS	Unmanned aircraft systems 2	KZ	2
Modern trends in unma	nned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights	beyond the appli	cable legislation.
14Y2C1	CATIA I	KZ	2
	g with CATIA, making basic parts and bodies. Making 2D sketches, geometric stucture, parametric linking, making adaptive merts and bodies. Making assemble and visualization.	odels from 2D sk	etches. Import
14Y2C2	CATIA II	KZ	2
Extension of basic cou and project cooperatio	rise. Modeling compound bodies. Possibility of enumeration, comunications with other systems. Surface x solid bodies. Kineman. Outputs of projects.	itic mechanism. F	roject making
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, definiti	on of sensitivity f	unctions and
matrices and their usal	pility in system design.		
15Y2DN	Transportation Psychology in German Speaking Countries	KZ	2
Introduction into broad	er view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, ge	etting of driving lie	cence, children
in traffic, traffic accider	t, traffic psychology in the internet etc.)		
18Y2DC	Dynamics of Transport Routes and Vehicles	KZ	2
Vibration of systems wi	ations of more mass systems. Analysis of the forces acting between the vehicle and transport route. Creation of dynamic model that finite number of degrees of freedom. Methods of stiffness constants and pliability constants. Fundamentals of vibration of brental methods in dynamics.		•

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. Underground the cities in the world.		
UMT types. UMT development in small towns. Particularities of investment and operation financing of individual UMT types. Historic and present mo	dels of UMT finan	cing. Transport
inspection and blind passengers. Tourism & Durism & Duris	1/7	
11Y2FX   Functions of Complex Variable Derivation of complex function, holomorphic function, complex exponential series, integration, Cauchy theorem. Taylor series, Laurent series of com	KZ	2
Laplace and Z-transformation.	pież variabie iurici	ion. basics of
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. Physics of a	1	
dengineering branches directed to safety.		
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 environments of the control of th	onment and loadin	g on materials'
behavior are the main discussed topics.		
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 of road 1st part of 20th century. Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of	=	
History of road intercections, bridges and traffic control, development of road signs.	i ioau tiaveiling iii	modern penod.
16Y2HP Vehicle Hygiene	KZ	2
Emissions and ergonomy of vehicles and the influence on man and nature. National and international law related to the hygiene. Noise and vibration	1	=
physical values, ways of measuring, prevention, elimination. Exhausts - creation, measurement, reduction, non-regular fuels and drives. Ergonomy - si	tting, standing, cor	ntrol, operational
reach. Condition - heating, ventilation, air-conditioning, filtration, tiredom.		
14Y2IS Intelligent Systems in Postal Services	KZ	2
The use of information systems in the postal services (ITIS, and POST, T + T, PS, KMP, DS), application of information technology in the processing		٠ ١
postal network, optimizing logistics processes in the post. The appreciation of the real implementation of the Czech post in operation both in lectures a desk.	nd in the framewor	k of the practical
12Y2IS Urban Networks	KZ	2
The importance and the position of UN as public and technical infrastructure / utillities, metodology of the UN master planning, of UN design, UN co		
operation (basic technical standards of UN, trenchless technologies for UN).	,	
14Y2JM One-Chip Controllers	KZ	2
One-chip controllers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed w	vith the aid of AVR	chips.
15Y2JH Job Hunting in English	KZ	2
The course provides a practical guide to applying for a job in English. The interview process is mapped out, with the course including skills practise	_	of this process,
including specifics for job-hunting in English. Students will also be introduced to the English vocabulary and phraseology necessary for a successful		
14Y2KI   Capital Investment in Transportation and Telecommunications Financial market, investment desicion making - long term goals and investment strategies, long term financing	KZ	2
17Y2KI Capital Investment in Transportation and Telecommunications	KZ	2
Financial market, investment desicion making - long term goals and investment strategies, long term financing.	11/2	-
	KZ	2
	1	=
16Y2KV Car Body Design	Materials used for	car body
16Y2KV Car Body Design Personal cars body, high-load car body, bus car body, and motorcycle as a construction set. Principles of design, production, testing and operation. construction. Active and passive safety parts. Ergonomics, HMI, view out of the vehicle, operational extent, view behind the car. Conditioning tools, so the car body. Design and artistic design principles. Practical training.	Materials used for	car body Aerodynamics
16Y2KV Car Body Design  Personal cars body, high-load car body, bus car body, and motorcycle as a construction set. Principles of design, production, testing and operation. Construction. Active and passive safety parts. Ergonomics, HMI, view out of the vehicle, operational extent, view behind the car. Conditioning tools, sof the car body. Design and artistic design principles. Practical training.  12Y2KS Rail Transport in Settlements and Regions	Materials used for signaling function.	car body Aerodynamics
16Y2KV Car Body Design  Personal cars body, high-load car body, bus car body, and motorcycle as a construction set. Principles of design, production, testing and operation. I construction. Active and passive safety parts. Ergonomics, HMI, view out of the vehicle, operational extent, view behind the car. Conditioning tools, sof the car body. Design and artistic design principles. Practical training.  12Y2KS Rail Transport in Settlements and Regions  Modernization and development of railway infrastructure in Czech Republic. Arrangement of railway networks and junctions. Suburban railway service.	Materials used for signaling function.  KZ ces. Network confi	car body Aerodynamics
16Y2KV Car Body Design  Personal cars body, high-load car body, bus car body, and motorcycle as a construction set. Principles of design, production, testing and operation. construction. Active and passive safety parts. Ergonomics, HMI, view out of the vehicle, operational extent, view behind the car. Conditioning tools, s of the car body. Design and artistic design principles. Practical training.  12Y2KS Rail Transport in Settlements and Regions  Modernization and development of railway infrastructure in Czech Republic. Arrangement of railway networks and junctions. Suburban railway service operation of metro systems. Network configuration and operation of tram systems. Special thematic lectures (rail transport in selected countries / respectively.)	Materials used for signaling function.  KZ ces. Network configions).	car body Aerodynamics  2 guration and
16Y2KV Car Body Design  Personal cars body, high-load car body, bus car body, and motorcycle as a construction set. Principles of design, production, testing and operation. construction. Active and passive safety parts. Ergonomics, HMI, view out of the vehicle, operational extent, view behind the car. Conditioning tools, soft the car body. Design and artistic design principles. Practical training.  12Y2KS Rail Transport in Settlements and Regions  Modernization and development of railway infrastructure in Czech Republic. Arrangement of railway networks and junctions. Suburban railway service operation of metro systems. Network configuration and operation of tram systems. Special thematic lectures (rail transport in selected countries / restands of the car body. Design and artistic design principles. Practical training.	Materials used for signaling function.  KZ ces. Network configions).  KZ	car body Aerodynamics  2 guration and
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16Y2KV Car Body Design Personal cars body, high-load car body, bus car body, and motorcycle as a construction set. Principles of design, production, testing and operation. construction. Active and passive safety parts. Ergonomics, HMI, view out of the vehicle, operational extent, view behind the car. Conditioning tools, sof the car body. Design and artistic design principles. Practical training.  12Y2KS Rail Transport in Settlements and Regions Modernization and development of railway infrastructure in Czech Republic. Arrangement of railway networks and junctions. Suburban railway service operation of metro systems. Network configuration and operation of tram systems. Special thematic lectures (rail transport in selected countries / regions)  12Y2KE Landscape Ecology Landscape ecology. Landscape - definition, types, evolution. Landscape systems. Anthropogenic impacts on landscape. Methods using for evaluating and its potential applications in landscape ecology. Landscape planning.	Materials used for signaling function.  KZ ces. Network configions).  KZ	car body Aerodynamics  2 guration and
16Y2KV Car Body Design Personal cars body, high-load car body, bus car body, and motorcycle as a construction set. Principles of design, production, testing and operation. construction. Active and passive safety parts. Ergonomics, HMI, view out of the vehicle, operational extent, view behind the car. Conditioning tools, sof the car body. Design and artistic design principles. Practical training.  12Y2KS Rail Transport in Settlements and Regions Modernization and development of railway infrastructure in Czech Republic. Arrangement of railway networks and junctions. Suburban railway service operation of metro systems. Network configuration and operation of tram systems. Special thematic lectures (rail transport in selected countries / regions)  12Y2KE Landscape Ecology Landscape ecology. Landscape - definition, types, evolution. Landscape systems. Anthropogenic impacts on landscape. Methods using for evaluating and its potential applications in landscape ecology. Landscape planning.	Materials used for signaling function.  KZ ces. Network configions).  KZ g landscape. Frac	car body Aerodynamics  2 guration and  2 tal geometry
16Y2KV Car Body Design Personal cars body, high-load car body, bus car body, and motorcycle as a construction set. Principles of design, production, testing and operation. construction. Active and passive safety parts. Ergonomics, HMI, view out of the vehicle, operational extent, view behind the car. Conditioning tools, sof the car body. Design and artistic design principles. Practical training.  12Y2KS Rail Transport in Settlements and Regions Modernization and development of railway infrastructure in Czech Republic. Arrangement of railway networks and junctions. Suburban railway service operation of metro systems. Network configuration and operation of tram systems. Special thematic lectures (rail transport in selected countries / regions)  12Y2KE Landscape Ecology Landscape Ecology Landscape ecology. Landscape - definition, types, evolution. Landscape systems. Anthropogenic impacts on landscape. Methods using for evaluating and its potential applications in landscape ecology. Landscape planning.  21Y2LS Air Traffic Services	Materials used for signaling function.  KZ ces. Network configions).  KZ g landscape. Frac	car body Aerodynamics  2 guration and  2 tal geometry
16Y2KV Car Body Design Personal cars body, high-load car body, bus car body, and motorcycle as a construction set. Principles of design, production, testing and operation. construction. Active and passive safety parts. Ergonomics, HMI, view out of the vehicle, operational extent, view behind the car. Conditioning tools, sof the car body. Design and artistic design principles. Practical training.  12Y2KS Rail Transport in Settlements and Regions  Modernization and development of railway infrastructure in Czech Republic. Arrangement of railway networks and junctions. Suburban railway service operation of metro systems. Network configuration and operation of tram systems. Special thematic lectures (rail transport in selected countries / regions)  12Y2KE Landscape Ecology  Landscape ecology. Landscape - definition, types, evolution. Landscape systems. Anthropogenic impacts on landscape. Methods using for evaluating and its potential applications in landscape ecology. Landscape planning.  21Y2LS Air Traffic Services  Airspace structure in Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, A	Materials used for signaling function.  KZ ces. Network configions).  KZ g landscape. Frac	car body Aerodynamics  2 guration and  2 tal geometry
Personal cars body, high-load car body, bus car body, and motorcycle as a construction set. Principles of design, production, testing and operation. construction. Active and passive safety parts. Ergonomics, HMI, view out of the vehicle, operational extent, view behind the car. Conditioning tools, sof the car body. Design and artistic design principles. Practical training.  12Y2KS Rail Transport in Settlements and Regions  Modernization and development of railway infrastructure in Czech Republic. Arrangement of railway networks and junctions. Suburban railway service operation of metro systems. Network configuration and operation of tram systems. Special thematic lectures (rail transport in selected countries / regions)  Landscape Ecology  Landscape Ecology  Landscape ecology. Landscape - definition, types, evolution. Landscape systems. Anthropogenic impacts on landscape. Methods using for evaluating and its potential applications in landscape ecology. Landscape planning.  21Y2LS Air Traffic Services  Airspace structure in Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, at USA and Czechoslovakia. ATS - Model of financing. Training Systém of Air Traffic Controllers. Future development of ATS.  11Y2LG Logics of Engineer's Judgement  Logical structure of engineer's judgement, its propositional and predicative logical base. Solutions of logical tasks through the methods of truthfulness.	Materials used for signaling function.  KZ ces. Network configions).  KZ ag landscape. Frac  KZ APP a ACC contro	car body Aerodynamics  2 guration and  2 tal geometry  2 II. History of ATS
16Y2KV Car Body Design  Personal cars body, high-load car body, bus car body, and motorcycle as a construction set. Principles of design, production, testing and operation. construction. Active and passive safety parts. Ergonomics, HMI, view out of the vehicle, operational extent, view behind the car. Conditioning tools, sof the car body. Design and artistic design principles. Practical training.  12Y2KS Rail Transport in Settlements and Regions  Modernization and development of railway infrastructure in Czech Republic. Arrangement of railway networks and junctions. Suburban railway service operation of metro systems. Network configuration and operation of tram systems. Special thematic lectures (rail transport in selected countries / resultand provided in the provided in	Materials used for signaling function.  KZ ces. Network configions).  KZ ag landscape. Fract  KZ APP a ACC contro	car body Aerodynamics  2 guration and  2 tal geometry  2 I. History of ATS  2 nalysis charts.
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12Y2MD Methods of Traffic Regulation and Prediction	KZ	2
Basic ways of traffic prognosis, traffic prognosis for large area (calculation of future traffic volumes, calculation of future traffic volumes between areas modal split, traffic distribution to road network). Shock wave in traffic flow. Service levels and their traffic volumes. Acceleration noise.	(analogical and sy	nthetic methods,
17Y2MS Microsimulation of Railway Operation	KZ	2
Introduction to the characteristics of simulation tools, creation of a simulation model of railway infrastructure, verification of a specific operational co		
adaptation of the infrastructure model and modification to the infrastructure to allow the implementation of the proposed operational concept. Stabilit of sensitivity of the operational concept to delays.	ty tests and evalua	tions. Evaluation
21Y2MS Aerospace Engineering Simulation and Modelling	KZ	2
The course is designed as a set of exemplary tasks and problems based on practical aviation issues. The university degree mathematic skills and s	1	
necessary for successful figuring out. Both simple tasks, where students create own model themselves (e.g. in Matlab), and more complicated problems.	ems where profess	sional developed
tools will be applied.  10V2NAZ Madernization of Boileyay Lines and Stations	KZ	2
12Y2MZ   Modernization of Railway Lines and Stations Line speed increasing. AGC and AGTC Agreement. AGC and AGTC railway network. Principles of modernization (conceptual papers, definitions of ba	1	2 idual principles).
Track geometrical characteristics on modernized railway lines. Superstructure and substructure on upgraded lines. Designing of railway stations. Bri	-	
and realization of projects. Technical description of the tranzit corridors.		
14Y2OP   Object Oriented Programming in Transport	KZ	2
Class, object, encapsulation, inheritance, polymorphism, templates, retyping, stream, exceptions, repository, collections, virtual methods and classe from microscopic simulation system, discrete event simulation, celular automata simulation and virtual life area.	es. Problem cases	wii be chosen
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. Harmonisa	tion of legislation v	vith other EU
members. Fundamental principles of health protection and support in selected EU countries.	V7	2
15Y2OF   Specialised French for Transportation and Telecommunications  Basic transportation (public transport, railway, air, road and ship transport) and telecommunications terminology. Special focus on independent spec	KZ	2 kills
16Y2PG Computer Graphics and Virtual Reality	KZ	2
Principles of creation and processing of bitmap and vector 2D graphics, 3D virtual scenes and algorithms used for their computerized processing. Adoption 2D graphics and 2D g	1	
and freeware tools for creation and processing of 2D, 3D and interactive graphics, and basics of programming language VRML and graphic libraries	<del>,</del>	
22Y2PS Traffic Accidents Computer Simulation and Analysis	KZ	2
Vehicle dynamics simulation, multi body systems and vehicle active safety systems, vehicle slipping, external influence on virtual model, crash tests vehicle passangers, pedestrian, traffic accident simulation and analysis.	s evaluation, single	-track venicle,
15Y2PT Food in Transportation	KZ	2
The nutrition policy. Interaction transportation and foodstuffs. The health risks. Hygienic safeguard. The practical examples from the Czech Republic	and from the worl	d. The issues of
dining cars, work trains and other railroad equipment. Legislation.	147	
15Y2PD Practical Spanish for Transportation  Development of communication skills, training of correct written expression of formal character, basic technical vocabulary, cultural specifics of the state of the stat	KZ Spanish speaking	2 Countries
Terminology of transport and commerce.	opanish speaking	odininos.
15Y2PS Practical Spanish for Transportation, Management and Business	KZ	2
Development of communication skills, training of correct written expression of formal character, basic technical vocabulary, cultural specifics of the	o	
	Spanish speaking	countries.
Terminology of transport and commerce, business letter.		
21Y2PP Law and Operation in Air Transport	KZ	2
<del></del>	KZ ganisations. EU leg	2 islation and civil
21Y2PP Law and Operation in Air Transport  Development of aviation law. International conventions on civil aviation. International organisations and including of the Czech Republic in these organization. Execution of state administration and state supervision in matters of civil aviation, in accordance with Act No. 49/1997 Col. Facilitation. Respassengers, luggage and cargo. The safe transport of dangerous goods.	KZ ganisations. EU leg	2 islation and civil carriers for
21Y2PP Law and Operation in Air Transport  Development of aviation law. International conventions on civil aviation. International organisations and including of the Czech Republic in these orgaviation. Execution of state administration and state supervision in matters of civil aviation, in accordance with Act No. 49/1997 Col. Facilitation. Respassengers, luggage and cargo. The safe transport of dangerous goods.  20Y2PR Prediction of time series	KZ ganisations. EU leg sponsibilities of air	2 islation and civil carriers for
21Y2PP Law and Operation in Air Transport  Development of aviation law. International conventions on civil aviation. International organisations and including of the Czech Republic in these orgaviation. Execution of state administration and state supervision in matters of civil aviation, in accordance with Act No. 49/1997 Col. Facilitation. Respassengers, luggage and cargo. The safe transport of dangerous goods.  20Y2PR Prediction of time series  Introduction to time series prediction, meaning of prediction, basics of quantitative prediction. Methods for predictive quality evaluation, descriptive states.	KZ ganisations. EU leg sponsibilities of air  KZ atistics, MAE, MAF	2 islation and civil carriers for  2 PE, RMSE, naive
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21Y2PP Law and Operation in Air Transport  Development of aviation law. International conventions on civil aviation. International organisations and including of the Czech Republic in these orgaviation. Execution of state administration and state supervision in matters of civil aviation, in accordance with Act No. 49/1997 Col. Facilitation. Repassengers, luggage and cargo. The safe transport of dangerous goods.  20Y2PR Prediction of time series  Introduction to time series prediction, meaning of prediction, basics of quantitative prediction. Methods for predictive quality evaluation, descriptive st prediction, prediction for general formula of loss function. Calculation and programming environment R. Regression models, basics of linear regress regression, statistical tests of linear dependence, selection of input variables.  14Y2PI Process Information Systems in Transportation  Introduction and detailed usage of transport information systems, e.g. EFC, ePurse and transport check-in systems for public transport with focus or SOA (Service Oriented Architecture). Inforamtion systems implementation and operations description in the Czech Republic (technical and process 14Y2PJ C++ Programming Language  OOP philosophy and basics of C++ programming language. Class, object, constructor, destructor, inheritance, abstract class, virtual methods, exceptionation in CAD interface programming techniques with the help of LIST and VBA programming languages. Possibilities of proper objects (comapplications creation in CAD systems. Programming of cooperation with other applications (databases, spread-sheets).  11Y2PM Programming in MATLAB  To explain the principle of modelling and simulation, description of Matlab environment and its settings, optimization and program code debugging, Matlab.  21Y2PL Operational Aspects of Aerodromes  Operational aspects of aerodromes. Location of aerodromes and orientation of runways. Requirements for apron. Capacity of airports runways and to conditions. Firefightling units. Protection against	KZ panisations. EU legsponsibilities of air  KZ atistics, MAE, MAF, MAF, sion, simple regres  KZ an architecture of the production of the	islation and civil carriers for  2 PE, RMSE, naive sion. Multiple  2 his system and and visits.  2 hod and operator  2 hinterfaces, and  2 signing GUI in  2 hunder winter  2 dents will each ors, carrier  2 Typographic

17Y2RZ	Control of Transport Processes	KZ	2
Theoretical bases, t	ransport system, decomposition, factors influencing control, quality diagnosis, methods of control, systems for decision making	support, risk of dec	cision making,
telematics.			
15Y2SP	Seminar on Political Philosophy	KZ	2
17Y2SJ	sophical texts, view of society, state and their system of government.  Network Timetabling on the Railway	KZ	2
	Capacity allocation, technological intervals in railway operation. Rules and regulations of train paths, running times, time adds a	1	<del>-</del>
	Rules of train-diagramm creating. Timetables for more service-levels on the line. Construction slot conflicts between passenger-		-
relations and waiting	g times, timetables for lines under construction.		
16Y2ST	Special Technologies in Transport and Telecommunications	KZ	2
· · · · · · · · · · · · · · · · · · ·	ecial technologies, electric arc and its applications, plasma technologies, dipping, beam technologies, electron beams technologies	y in roduction and	mending of
	aser technologies, soldering, gluing, ultrasound, diffusion, friction and explosion technologies, micro stoves, gas.	1/7	
18Y2SD	Reliability and Diagnostics, Experimental Methods  ed on theoretical background and practical experience in the field of reliability of constructions, implementation of diagnostic proc	KZ	2
	nation of residual life of structures. For this purpose, non-destructive methods of experimental mechanics (e.g. strain-gauge mea		
	cluding electron microscopy, will be used.	,,,	
15Y2SR	Stylistics and Rhetorics	KZ	2
Basic skills of oral a	ind written expression as a means of human communication. Basic information about speech, articulation, oral and written langu	uage. Teaching to s	peak well-voca
_	g. Language semantics, language syntactic and the pragmatic aspect. Creative thought and its oral and written expression. Pract	<del> </del>	-
17Y2SK	Urban and Regional Rail Transport System	KZ	2
	transport demand, modal-split, traffic flows distribution on public transit network. Line network optimization and configuration. Til		
of public transport.	l periodic timetable. Rolling stock circulation, staff and crew services optimization and their order to rosters. Framework legislation Marketing	, non-barrier effects	s and preference
15Y2TS	Technician and Contemporary Society	KZ	2
	It 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 of	1	
	spapers, what are the sights for, interest in public affairs - a hangover from the past?		
20Y2TE	Technology of Electronic Systems	KZ	2
·	es for an effective operation of electronically controlled systems. Maintaining, meassuring, optimization of safety and reliability of	f complex systems	. Semiconducto
	d circuits, assembly operations, interconnection and repairs technologiesusers and operators.		
14Y2TU	Telecommunications Systems and Multimedia	KZ	2
	emmunications namely applied in transport solutions, identification and quantification of telecommunications networks and service sioning of guaranteed service quality, two generations of the handover principles.	s performance base	ea on reaunaar
16Y2TT	Transportation and Building Technology and Equipment	KZ	2
-	building technology and equipment. Transport of solid and mass material, soil and rock above all. Highway and underground cor	1	
=	n and construction features, delivered mass calculation, economy of operation. Technics and technology of underground construc	=	
management metho	odology (ultrasound, laser, GPS, total stations).		
21Y2TL	Development Trends of Aircraft Construction	KZ	2
	days trends. Future scenarios. Space industry. Economy.		
12Y2UD	Sustainable Transportation	KZ	2
	oment, definition, history, legal framework. Sustainable development indicators. Sustainable transportation, definition, history, leg	jal framework. Prac	ctical application
	opment theory, case study.		2
14Y2UI History of artificial in	Artificial Intelligence ntelligence, knowledge, its representation including frames, state space search, constraints, genetic algorithms, machine learning	KZ	2
20Y2UA	Artificial Neural Networks, Realization and Applications	KZ	2
	tworks. Basic principles. Comparing the structure of a natural and an artificial neuron. Neural classificators, predictors, compresor	1	
	systems. Modelling of neurons. Grossberg's equations. Learning principles. Leyered and Hopfield's nets.	•	·
18Y2UB	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		
•	ic. Pedestrian injuries. Injury in railway and air traffic accidents. Analysis of biomechanical events in accidents and their computation. Pertection Research and a fet or account in transport.	tional modeling. Pr	rinciples of
	illitation. Protective elements and safety measures in transport.	1/7	
23Y2VZ	Leadership and Human Resource Development tudy of human resources, human resources management, corporate goals, strategies, cultural and ethical aspects. Team mana	KZ	2
	ng in human resources, ethics and corporate culture, cross-cultural differences. The labor code. Introduction into protocols.	gement, communic	zation in teams,
21Y2VA	Selected Chapters of Aerodynamics	KZ	2
	of real gases, atmosphere, aeronautical applications of external and internal aerodynamics, compressible internal flow, inlet nozzl	1 1	<del>-</del>
external flow, super-	critical wings and profiles, vertical and oblique shock wave, energy losses, aeronautical aerodynamic profiles of wings, propeller	rs, blades gratings,	lift, drag, polar
	nd turbulent flow, boundary layer.		
18Y2VC	Computational Mechanics in Transportation	KZ	2
•	vork and variational principles in FEM. Bar shaped, planar and three - dimensional structures in FEM. FEM in statics and in dyna c and viscoelastic material. FEM in problems of biomechanics. Numerical analysis of structural parts with programme ANSYS o	•	itionai systems.
23Y2VR		KZ	2
	Cope with Risks in Engineering Branches g branches directed to risks, procedures used in risk engineering, ensuring the secured systems, ensuring the safe systems, ens	1	
12Y2VT	High Speed Railways	KZ	2
	R) transport characteristics and position in transportation system. HSR vehicles types and characteristics and control-command	1	_
	-adhesion HSR systems. City traffic service by HSR. HSR operating points. HSR worldwide network. HSR routing and traffic co		=
	ometrical characteristics.		
12Y2ZK	Traffic Calming	KZ	2
=	calming. Solution of road network organization. Urban road layouts. Psychological and physical obstacles (measures of traffic ca	ılming) and their co	mbinations.
marric calming meas	sures in crossroads. Pedestrian zones. Residential streets and zones.		

23Y2ZM Intelligence Means and Methods

KZ

2

History and the present of intelligence services and their role in the modern world. How intelligence services handle with information. Methods and procedures of collecting and evaluating information. Means of intelligence services. Internal and external intelligence, military intelligence. The means and methods of state security services. Cooperation among Intelligence services within NATO, EU. The organization of the intelligence services.

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-14/15

Name of the group: Jazyk nav.1.-4.sem. od 14/15 (pro obory v N3710) 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:

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+10E	3 Z	J
15J2l1	Language - Italian 1 Eva Rezlerová, Irena Veselková	Z	2	0P+2C+10E	Z	J
15J2N1	Language - German 1 Eva Rezlerová, Martina Navrátilová, Jana Štikarová	Z	2	0P+2C+10E	Z	J
15J2R1	Language - Russian 1 Marie Michlová, Eva Rezlerová	Z	2	0P+2C+10E	Z	J
15J2S1	Language - Spanish 1 Eva Rezlerová, Nina Hricsina Puškinová	Z	2	0P+2C+10E	Z	J
15JBF2	Language - French 2 Eva Rezlerová, Irena Veselková	Z	2	0P+2C+10E	L L	J
15JBI2	Language - Italian 2 Eva Rezlerová	Z	2	0P+2C+10E	B L	J
15JBN2	Language - German 2 Eva Rezlerová, Martina Navrátilová, Jana Štikarová	Z	2	0P+2C+10E	B L	J
15JBR2	Language - Russian 2 Marie Michlová, Eva Rezlerová	Z	2	0P+2C+10E	B L	J
15JBS2	Language - Spanish 2 Eva Rezlerová, Nina Hricsina Puškinová	Z	2	0P+2C+10E	B L	J
15JBF3	Language - French 3 Eva Rezlerová, Irena Veselková	Z	2	0P+2C+10E	3 Z	J
15JBI3	Language - Italian 3 Eva Rezlerová, Irena Veselková	Z	2	0P+2C+10E	3 Z	J
15JBN3	Language - German 3 Eva Rezlerová, Martina Navrátilová, Jana Štikarová	Z	2	0P+2C+10E	3 Z	J
15JBR3	Language - Russian 3 Marie Michlová, Eva Rezlerová	Z	2	0P+2C+10E	3 Z	J
15JBS3	Language - Spanish 3 Eva Rezlerová, Nina Hricsina Puškinová	Z	2	0P+2C+10E	3 Z	J
15JBF4	Language - French 4 Eva Rezlerová, Irena Veselková	ZK	2	0P+2C+10E	B L	J
I5JBI4	Language - Italian 4 Eva Rezlerová	ZK	2	0P+2C+10E	L L	J
15JBN4	Language - German 4 Eva Rezlerová, Martina Navrátilová, Jana Štikarová	ZK	2	0P+2C+10E	B L	J
I5JBR4	Language - Russian 4 Marie Michlová, Eva Rezlerová	ZK	2	0P+2C+10E	L L	J
15JBS4	Language - Spanish 4  Eva Rezlerová Nina Hricsina Puškinová	ZK	2	0P+2C+10E	B L	J

Characteristics of the courses of this group of Study Plan: Code=JZ-N-14/15 Name=Jazyk nav.1.-4.sem. od 14/15 (pro obory v N3710)

15J2F1 | Language - French 1 | 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.

15J2I1 Language - Italian 1

Eva Rezlerová, Nina Hricsina Puškinová

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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.

15J2N1	Language - German 1	Z	2
	s and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative sk		- 1
technical text content, s language of manageme	structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and	technical register	s and their use,
15J2R1	Language - Russian 1	Z	2
	paniguage - indistraint is and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative sk		
	structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and		
language of manageme	ent.		
15J2S1	Language - Spanish 1	Z	2
	s and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative sk		
	structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and	technical register	s and their use,
language of manageme			0
15JBF2 Grammatical Structures	Language - French 2 said said to transportation sciences. Developing perceptive and communicative sk	Z Z	2 c. cummaricina
	structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and		
language of manageme		. tooriiiioai rogioto.	o aa a acc,
15JBI2	Language - Italian 2	Z	2
Grammatical Structures	s and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative sk	ills, feedback skill	s, summarising
	structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and	technical register	s and their use,
language of manageme			_
15JBN2	Language - German 2	Z	2
	s and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative sk structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and		
language of manageme		i tecililicai registei	3 and then use,
15JBR2	Language - Russian 2	Z	2
	s and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative sk	. – .	
technical text content, s	structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and	technical register	s and their use,
language of manageme	ent.		
15JBS2	Language - Spanish 2	Z	2
	s and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative sk		- 1
	structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and	technical register	s and their use,
language of manageme		7	0
15JBF3 Grammar and stylistics	Language - French 3 Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement	of language struct	2 ure knowledge
-	nmunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo		-
	al and written presentation.	u	.,
15JBI3	Language - Italian 3	Z	2
Grammar and stylistics.	Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement	of language struct	ure knowledge
	nmunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	ork with (profession	nal) text and its
	al and written presentation.		
15JBN3	Language - German 3	Z	2
-	. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of municative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo		- 1
	al and written presentation.	(р. с. с с с. с.	iai, tom and no
15JBR3	Language - Russian 3	Z	2
	Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement	of language struct	ure knowledge
and perceptive and com	nmunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	ork with (profession	nal) text and its
features. Practice of ora	al and written presentation.		
15JBS3	Language - Spanish 3	Z	2
•	Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement		
	nmunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo al and written presentation.	ork with (profession	nai) text and its
15JBF4	Language - French 4	ZK	2
	Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement	1 1	
=	nmunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo		- 1
features. Practice of ora	al and written presentation.		
15JBI4	Language - Italian 4	ZK	2
•	Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement		
	nmunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	ork with (profession	nal) text and its
	al and written presentation.	71/	0
15JBN4 Grammar and stylistics	Language - German 4 Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement	ZK	2 ure knowledge
•	r selection of conversation and professional topics based on the language level and study locus at the Faculty. Improvement of numbers and study locus at the Faculty. Improvement of numbers still be said to the Faculty. Improvement of the language level and study locus at the Faculty. Improvement of the language level and study locus at the Faculty. Improvement of the language level and study locus at the Faculty. Improvement of the language level and study locus at the Faculty. Improvement of the language level and study locus at the Faculty. Improvement of the language level and study locus at the Faculty. Improvement of the language level and study locus at the Faculty. Improvement of the language level and study locus at the Faculty. Improvement of the language level and study locus at the Faculty.		
	al and written presentation.	(1.2.000)	,
15JBR4	Language - Russian 4	ZK	2
	Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement	1 1	
	nmunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	ork with (profession	nal) text and its
	al and written presentation.		
15JBS4	Language - Spanish 4	ZK	2
=	. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement on municative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo		- 1
	nmunicative skills, vocabulary development. Basic styllstic forms. Presentation of own knowledge in oral and written form. Wo al and written presentation.	ar with (blolessior	iai) ieal aliū ils
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## List of courses of this pass:

Code	Name of the course	Completion	Credits
11DOPM	Transportation Planning and Modeling	Z,ZK	6
Basic steps and to	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.	reas, land use. Ne	w trends for
11LP2	Linear Programming 2	KZ	3
Task formulation	and its solution in Excel. Integer linear programming, binary linear programming. Mixed linear programming, practical examples (transpingtes) infectious disease, problem of order, problem of service).	ortation problem,	epidemy of
11STS	Stochastic Systems	Z,ZK	4
-	ls with the problems of mathematical modelling of dynamical systems, estimation od these models and their utilization for prediction. T ansportation tasks. Mathematical theory roots from probability and mathematical statistics and they use the methods of the Bayesian p		
11TER	Game Theory and Optimal Decision-Making	ZK	2
_	heory, utility theory. Explicit form games, backward induction. Normal form games. Antagonistic conflict, matrix games. Repeated games without transferable payoffs. Cooperative games with transferable payoffs (imputation, core, Shapley value, nucleolus). Applications economics and transportation.		-
11THRO	Queuing Theory	ZK	2
	cess, definition, random distribution, and probability. Basic processes, process of revitalisation. Markov process, Markov models, Kenda		l
mod	els M/M/n. Non-markovian models, model M/C/n, models G/G/n. Models with continuous flow. Service net, examples of Petri net. Comp	outer simulation.	
11XN1	Master Project 1	Z	2
11XN2	Master Project 2	Z	2
11XN3	Master Project 3	Z	1
11XN4	Master Project 4	 Z	8
11XNDP	Master Thesis	KZ	18
11Y2FX	Functions of Complex Variable	KZ	2
	plex function, holomorphic function, complex exponential series, integration, Cauchy theorem. Taylor series, Laurent series of comple Laplace and Z-transformation.		_
11Y2LG	Logics of Engineer's Judgement	KZ	2
	of engineer's judgement, its propositional and predicative logical base. Solutions of logical tasks through the methods of truthfulness a Venn's diagram method. Logical basis for network design for the solution of technical tasks.	ınd semantic analy	ysis charts.
11Y2PM	Programming in MATLAB	KZ	2
	nciple of modelling and simulation, description of Matlab environment and its settings, optimization and program code debugging, data Matlab.	a fitting and desigr	ning GUI in
12XN1	Master Project 1	Z	2
12XN2	Master Project 2	Z	2
12XN3	Master Project 3	Z	1
12XN4	Master Project 4	Z	8
12XNDP	Master Thesis	KZ	18
12Y2BM	Safety on The Local Roads	KZ	2
	right of way. Roundabouts. Pedestrian transport, cyclists. Traffic lights coordination. Transport control and regulation.		_
12Y2IS	Urban Networks	KZ	2
	nd the position of UN as public and technical infrastructure / utillities, metodology of the UN master planning, of UN design, UN coordin		
The importance a	operation (basic technical standards of UN, trenchless technologies for UN).	nation, UN installa	tion and on
12Y2KE		nation, UN installa	2
12Y2KE	operation (basic technical standards of UN, trenchless technologies for UN).	KZ	2
12Y2KE	operation (basic technical standards of UN, trenchless technologies for UN).  Landscape Ecology	KZ	2
12Y2KE Landscape ecolo	operation (basic technical standards of UN, trenchless technologies for UN).  Landscape Ecology  ogy. Landscape - definition, types, evolution. Landscape systems. Anthropogenic impacts on landscape. Methods using for evaluating I and its potential applications in landscape ecology. Landscape planning.  Rail Transport in Settlements and Regions	KZ andscape. Fractal KZ	2 geometry
12Y2KE Landscape ecolo  12Y2KS Modernization a open	operation (basic technical standards of UN, trenchless technologies for UN).  Landscape Ecology ogy. Landscape - definition, types, evolution. Landscape systems. Anthropogenic impacts on landscape. Methods using for evaluating I and its potential applications in landscape ecology. Landscape planning.  Rail Transport in Settlements and Regions and development of railway infrastructure in Czech Republic. Arrangement of railway networks and junctions. Suburban railway services ation of metro systems. Network configuration and operation of tram systems. Special thematic lectures (rail transport in selected courses)	KZ andscape. Fractal KZ s. Network configu	2 geometry
12Y2KE Landscape ecolo  12Y2KS Modernization a oper 12Y2MD	operation (basic technical standards of UN, trenchless technologies for UN).  Landscape Ecology  ogy. Landscape - definition, types, evolution. Landscape systems. Anthropogenic impacts on landscape. Methods using for evaluating I and its potential applications in landscape ecology. Landscape planning.  Rail Transport in Settlements and Regions  nd development of railway infrastructure in Czech Republic. Arrangement of railway networks and junctions. Suburban railway services ation of metro systems. Network configuration and operation of tram systems. Special thematic lectures (rail transport in selected could be the details of the service of t	KZ andscape. Fractal  KZ s. Network configuntries / regions).  KZ	2 geometry 2 ration and 2
12Y2KE Landscape ecolo  12Y2KS Modernization a oper 12Y2MD Basic ways of traff	operation (basic technical standards of UN, trenchless technologies for UN).  Landscape Ecology  ogy. Landscape - definition, types, evolution. Landscape systems. Anthropogenic impacts on landscape. Methods using for evaluating land its potential applications in landscape ecology. Landscape planning.  Rail Transport in Settlements and Regions  Independent of railway infrastructure in Czech Republic. Arrangement of railway networks and junctions. Suburban railway services ation of metro systems. Network configuration and operation of tram systems. Special thematic lectures (rail transport in selected course of traffic Regulation and Prediction compositions, traffic prognosis for large area (calculation of future traffic volumes, calculation of future traffic volumes between areas (and modal split, traffic distribution to road network). Shock wave in traffic flow. Service levels and their traffic volumes. Acceleration references are supported by the composition of the c	KZ andscape. Fractal  KZ s. Network configuntries / regions).  KZ logical and synthe noise.	geometry  2 ration and  2 tic methods
12Y2KE Landscape ecolo  12Y2KS Modernization a oper 12Y2MD	operation (basic technical standards of UN, trenchless technologies for UN).  Landscape Ecology  ogy. Landscape - definition, types, evolution. Landscape systems. Anthropogenic impacts on landscape. Methods using for evaluating I and its potential applications in landscape ecology. Landscape planning.  Rail Transport in Settlements and Regions  and development of railway infrastructure in Czech Republic. Arrangement of railway networks and junctions. Suburban railway services ation of metro systems. Network configuration and operation of tram systems. Special thematic lectures (rail transport in selected course)  Methods of Traffic Regulation and Prediction  c prognosis, traffic prognosis for large area (calculation of future traffic volumes, calculation of future traffic volumes between areas (ana	KZ andscape. Fractal  KZ s. Network configuntries / regions).  KZ logical and synthe	2 geometry 2 ration and 2
12Y2KE Landscape ecolo  12Y2KS Modernization a open 12Y2MD Basic ways of traff	operation (basic technical standards of UN, trenchless technologies for UN).  Landscape Ecology  ogy. Landscape - definition, types, evolution. Landscape systems. Anthropogenic impacts on landscape. Methods using for evaluating land its potential applications in landscape ecology. Landscape planning.  Rail Transport in Settlements and Regions  Independent of railway infrastructure in Czech Republic. Arrangement of railway networks and junctions. Suburban railway services ation of metro systems. Network configuration and operation of tram systems. Special thematic lectures (rail transport in selected course of traffic Regulation and Prediction compositions, traffic prognosis for large area (calculation of future traffic volumes, calculation of future traffic volumes between areas (and modal split, traffic distribution to road network). Shock wave in traffic flow. Service levels and their traffic volumes. Acceleration references are supported by the composition of the c	KZ andscape. Fractal  KZ s. Network configuntries / regions).  KZ logical and synthe noise.  KZ	geometry  2 ration and  2 tic methods
12Y2KE Landscape ecolo  12Y2KS Modernization a open 12Y2MD Basic ways of traff	operation (basic technical standards of UN, trenchless technologies for UN).  Landscape Ecology ogy. Landscape - definition, types, evolution. Landscape systems. Anthropogenic impacts on landscape. Methods using for evaluating land its potential applications in landscape ecology. Landscape planning.  Rail Transport in Settlements and Regions and development of railway infrastructure in Czech Republic. Arrangement of railway networks and junctions. Suburban railway services attion of metro systems. Network configuration and operation of tram systems. Special thematic lectures (rail transport in selected course prognosis, traffic prognosis for large area (calculation of future traffic volumes, calculation of future traffic volumes between areas (and modal split, traffic distribution to road network). Shock wave in traffic flow. Service levels and their traffic volumes. Acceleration of Measurement and Modeling of Traffic Noise uction to noise from rail transport. Noise from road traffic. Measurement and calculation of noise from rail traffic. Me	KZ andscape. Fractal  KZ s. Network configuntries / regions).  KZ logical and synthe noise.  KZ	geometry  2 ration and  2 tic methods,
12Y2KE Landscape ecolomological 12Y2KS Modernization a open 12Y2MD Basic ways of traff 12Y2MH Theoretical introduction 12Y2MZ	operation (basic technical standards of UN, trenchless technologies for UN).  Landscape Ecology ogy. Landscape - definition, types, evolution. Landscape systems. Anthropogenic impacts on landscape. Methods using for evaluating land its potential applications in landscape ecology. Landscape planning.  Rail Transport in Settlements and Regions and development of railway infrastructure in Czech Republic. Arrangement of railway networks and junctions. Suburban railway services ation of metro systems. Network configuration and operation of tram systems. Special thematic lectures (rail transport in selected coulons of metro systems. Network configuration and operation of tram systems. Special thematic lectures (rail transport in selected coulons of metro systems. Traffic prognosis for large area (calculation of future traffic volumes, calculation of future traffic volumes between areas (and modal split, traffic distribution to road network). Shock wave in traffic flow. Service levels and their traffic volumes. Acceleration of Measurement and Modeling of Traffic Noise uction to noise from traffic. Noise from rail transport. Noise from road traffic. Measurement and calculation of noise from rail traffic. Measurement and calculation of noise from rail traffic. Measurement and CADNA A.	KZ andscape. Fractal  KZ s. Network configuratries / regions).  KZ logical and syntherapise.  KZ asurement and ca	geometry  2 ration and  2 tic methods,  2 Iculation of
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12Y2UD	0 1 1 7 1 7	1.77	_
	Sustainable Transportation	KZ	2
Sustainable develo	pment, definition, history, legal framework. Sustainable development indicators. Sustainable transportation, definition, history, legal fr	amework. Practica	I application
	of sustainable development theory, case study.		
12Y2VT	High Speed Railways	KZ	2
High speed rail (HS	R) transport characteristics and position in transportation system. HSR vehicles types and characteristics and control-command and	signalling system. I	HSR system
interoperability. No	on-adhesion HSR systems. City traffic service by HSR. HSR operating points. HSR worldwide network. HSR routing and traffic conce	eption. Specifics of	HSR track
	construction and geometrical characteristics.		
12Y2ZK	Traffic Calming	KZ	2
	ic calming. Solution of road network organization. Urban road layouts. Psychological and physical obstacles (measures of traffic calm	1	1
1 morpies of train	Traffic calming measures in crossroads. Pedestrian zones. Residential streets and zones.	iiig) and their con	ibiriations.
4 4NATICO		1/7	
14MTKS	Telecommunications Systems Management	KZ	3
	us and future expectations in area of telecommunications networks and telecommunications services provisioning; introduction of basic		
in provisioning of g	uaranteed level of telecommunications services quality, redundant telecommunications networking concept, networks and services n	nanagement tools	and position
	of financial and human resources management in telecommunications services provisioning.		
14NDB	Databases Design and Programming	KZ	2
Database desigi	n, data types, constraints, SQL statements for data definition, data manipulation, transaction management, connection management	and system admir	nistration,
single	e-row, aggregation and SQL analytic functions. PL / SQL - variables, loops, conditions, procedures, functions, triggers, packages, cur	sors, exceptions.	
14PPRP	Computer Aided Project Management	KZ	2
	ect? The basic terms a concepts of project management. Life cycle of the project and its phased approach. Analysis and specification	1	I .
	est: The basic terms a concepts of project management, the cycle of the project and its phased approach. Analysis and specimentions, objectives and measurability. Risk events and risk planning. Project change management during implementation. Preparation of th	-	-
definition, stage		ie project odtilile (a	activities,
	restrictions, assignments, calendars etc.) Project planning and optimization - time, resources.		
14XN1	Master Project 1	Z	2
14XN2	Master Project 2	Z	2
14XN3	Master Project 3	Z	1
14XN4		Z	8
	Master Project 4		
14XNDP	Master Thesis	KZ	18
14Y2C1	CATIA I	KZ	2
Fundaments of wo	rking with CATIA, making basic parts and bodies. Making 2D sketches, geometric stucture, parametric linking, making adaptive moc	dels from 2D sketcl	hes. Import
	and export of made parts and bodies. Making assemble and visualization.		
14Y2C2	CATIA II	KZ	2
	course. Modeling compound bodies. Possibility of enumeration, comunications with other systems. Surface x solid bodies. Kinemative		I
Exteriolori or basic	and project cooperation. Outputs of projects.	o moonamom. r roj	oot making
4.4\/0.00		1/7	
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	on of sensitivity fun	ctions and
	matrices and their usability in system design.		
14Y2IS	Intelligent Systems in Postal Services	l KZ	2
l —.		1 1 1	
The use of informa	ation systems in the postal services (ITIS, and POST, T + T, PS, KMP, DS), application of information technology in the processing of		
	ation systems in the postal services (ITIS, and POST, T + T, PS, KMP, DS), application of information technology in the processing of imizing logistics processes in the post. The appreciation of the real implementation of the Czech post in operation both in lectures and in	mail processing n	odes in the
		mail processing n	odes in the
postal network, opti	imizing logistics processes in the post. The appreciation of the real implementation of the Czech post in operation both in lectures and in desk.	mail processing n	odes in the the practical
postal network, opti	imizing logistics processes in the post. The appreciation of the real implementation of the Czech post in operation both in lectures and in desk.  One-Chip Controllers	mail processing non the framework of	odes in the the practical
postal network, opti 14Y2JM One-chip cont	imizing logistics processes in the post. The appreciation of the real implementation of the Czech post in operation both in lectures and in desk.  One-Chip Controllers rollers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed	mail processing n the framework of  KZ with the aid of AVF	odes in the the practical 2 R chips.
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.  One-Chip Controllers rollers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed  Capital Investment in Transportation and Telecommunications	mail processing n the framework of  KZ with the aid of AVF	odes in the the practical
postal network, opti 14Y2JM One-chip contr 14Y2KI	mizing logistics processes in the post. The appreciation of the real implementation of the Czech post in operation both in lectures and in desk.  One-Chip Controllers rollers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed  Capital Investment in Transportation and Telecommunications Financial market, investment desicion making - long term goals and investment strategies, long term financing	mail processing non the framework of KZ with the aid of AVF	odes in the the practical  2 R chips.
postal network, opti 14Y2JM One-chip contr 14Y2KI 14Y2OP	mizing logistics processes in the post. The appreciation of the real implementation of the Czech post in operation both in lectures and in desk.  One-Chip Controllers rollers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed  Capital Investment in Transportation and Telecommunications Financial market, investment desicion making - long term goals and investment strategies, long term financing  Object Oriented Programming in Transport	mail processing non the framework of KZ with the aid of AVF KZ	odes in the the practical  2 R chips.  2
postal network, opti 14Y2JM One-chip contr 14Y2KI 14Y2OP	mizing logistics processes in the post. The appreciation of the real implementation of the Czech post in operation both in lectures and in desk.  One-Chip Controllers rollers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed  Capital Investment in Transportation and Telecommunications Financial market, investment desicion making - long term goals and investment strategies, long term financing	mail processing non the framework of KZ with the aid of AVF KZ	odes in the the practical  2 R chips.  2
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4.5.10.14	Language Command	7	
15J2N1	Language - German 1	Z	2
	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,		-
technical text conte	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec	hnical registers ar	nd their use,
	language of management.		
15J2R1	Language - Russian 1	Z	2
	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	feedback skills, s	ı ummarising
	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec		•
teerinear text cont	language of management.	Titilodi registers di	ia tricii asc,
15J2S1	Language - Spanish 1	Z	2
Grammatical Struc	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	feedback skills, s	ummarising
technical text conte	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec	hnical registers ar	nd their use,
	language of management.		
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		_
			_
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.Op	ional courses for	certificates
	FCE, CAE.		
15JBA4	Language - English 4	ZK	2
	s - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Op		1
Fresentation Skill		lonal courses for t	Sertificates
	FCE, CAE.		1
15JBF2	Language - French 2	Z	2
Grammatical Struc	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	feedback skills, st	ummarising
technical text conte	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec	hnical registers ar	nd their use,
	language of management.	· ·	
4 <i>E</i> IDE2		7	2
15JBF3	Language - French 3	_	2
Grammar and styl	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of k	anguage structure	knowledge
and perceptive an	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.		
15JBF4	Language - French 4	ZK	2
			I
=	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		_
and perceptive an	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w	vith (professional)	text and its
	features. Practice of oral and written presentation.		
15JBI2	Language - Italian 2	Z	2
	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	feedback skills s	I
	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec		_
technical text conte		Titilical registers at	ia trieli ase,
	language of management.		T
15JBI3	Language - Italian 3	Z	2
Grammar and styl	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la	anguage structure	knowledge
and perceptive an	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.	. ,	
15JBI4		ZK	2
	Language - Italian 4		1
	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		
and perceptive an	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v	vith (professional)	text and its
	features. Practice of oral and written presentation.		
15JBN2	Language - German 2	Z	2
	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	feedback skills s	I
	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec		-
technical text conte		Titilical registers at	ia trieli ase,
	language of management.		ı
15JBN3	Language - German 3	Z	2
Grammar and styl	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la	anguage structure	knowledge
and perceptive an	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.	,	
15JBN4			2
	Languago (Earman /	71/	l .
A 1 . 1	Language - German 4	ZK	
•	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of R	anguage structure	•
•	stics. 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 a communicative skills, vocabulary development.	anguage structure	•
and perceptive an	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of R	anguage structure	•
•	stics. 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 a communicative skills, vocabulary development.	anguage structure	•
and perceptive an	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of led communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work vote features. Practice of oral and written presentation.  Language - Russian 2	anguage structure with (professional)	text and its
and perceptive and 15JBR2 Grammatical Structure	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of led communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work vote features. Practice of oral and written presentation.  Language - Russian 2  tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	anguage structure with (professional)  Z feedback skills, si	text and its  2  ummarising
and perceptive and 15JBR2 Grammatical Structure	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of led communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work votes the features. Practice of oral and written presentation.  Language - Russian 2  Estures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, sent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and techniques.	anguage structure with (professional)  Z feedback skills, si	text and its  2  ummarising
and perceptive an  15JBR2 Grammatical Structechnical text conte	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of led communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work vote that the features of the students of the features of the students of the features. Practice of oral and written presentation.  Language - Russian 2  Students 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 techniques of management.	anguage structure with (professional)  Z feedback skills, si hnical registers ar	text and its  2  ummarising and their use,
15JBR2 Grammatical Structechnical text conte	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of led communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work vote that the features of fe	anguage structure with (professional)  Z feedback skills, si hnical registers ar	text and its  2  ummarising and their use,
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15JBR2 Grammatical Structechnical text conte	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of led communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work vote that the features of fe	anguage structure with (professional)  Z feedback skills, si shnical registers ar  Z anguage structure	2 ummarising nd their use,  2 knowledge
15JBR2 Grammatical Structechnical text conte	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lead communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work vote that the features of the features of the features of the features of the features. Practice of oral and written presentation.  Language - Russian 2  Stures 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.  Language - Russian 3  stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of leading to the faculty of the faculty	anguage structure with (professional)  Z feedback skills, si shnical registers ar  Z anguage structure	2 ummarising nd their use,  2 knowledge
15JBR2 Grammatical Structechnical text contections of the structure of the	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of led 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 2  Stures 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.  Language - Russian 3  stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of led 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.	anguage structure with (professional)  Z feedback skills, so shnical registers ar  Z anguage structure with (professional)	2 ummarising nd their use, 2 knowledge text and its
15JBR2 Grammatical Structechnical text contections and style and perceptive and 15JBR4	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lead communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work vote that the features of the features of oral and written presentation.  Language - Russian 2  Stures 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.  Language - Russian 3  stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lead communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work vote that the features of oral and written presentation.  Language - Russian 4	anguage structure with (professional)  Z feedback skills, so shnical registers ar  Z anguage structure with (professional)	text and its  2  ummarising at their use,  2  knowledge text and its
15JBR2 Grammatical Structechnical text contections and style and perceptive an 15JBR4 Grammar and style Grammar and Styl	stics. 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 with the features. Practice of oral and written presentation.  Language - Russian 2  Stures 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.  Language - Russian 3  Stics. 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 with the features. Practice of oral and written presentation.  Language - Russian 4  stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lad stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lad stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lad stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lad stics.	anguage structure with (professional)  Z feedback skills, so shnical registers ar  Z anguage structure with (professional)  ZK anguage structure	2 ummarising and their use,  2 knowledge text and its  2 knowledge
15JBR2 Grammatical Structechnical text contections and style and perceptive an 15JBR4 Grammar and style Grammar and Styl	stics. 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 with the features. Practice of oral and written presentation.  Language - Russian 2  Stures 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.  Language - Russian 3  Stics. 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 with the features. Practice of oral and written presentation.  Language - Russian 4  stics. 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 with the form is a stylistic form of 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 with the form is a stylistic form of 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 with the faculty is a stylistic form of the language level and study focus at the faculty is a stylistic form.	anguage structure with (professional)  Z feedback skills, so shnical registers ar  Z anguage structure with (professional)  ZK anguage structure	2 ummarising and their use,  2 knowledge text and its  2 knowledge
15JBR2 Grammatical Structechnical text contections and style and perceptive an 15JBR4 Grammar and style Grammar and Styl	stics. 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 with the features. Practice of oral and written presentation.  Language - Russian 2  Stures 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.  Language - Russian 3  Stics. 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 with the features. Practice of oral and written presentation.  Language - Russian 4  stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lad stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lad stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lad stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lad stics.	anguage structure with (professional)  Z feedback skills, so shnical registers ar  Z anguage structure with (professional)  ZK anguage structure	2 ummarising and their use,  2 knowledge text and its  2 knowledge
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and perceptive and 15JBR2 Grammatical Structechnical text contection of the structure of th	stics. 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 with the features of the presentation.  Language - Russian 2  Stures 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.  Language - Russian 3  Institute 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 with the 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 with the features. Practice of oral and written presentation.  Language - Spanish 2	anguage structure with (professional)  Z feedback skills, so thical registers are sure with (professional)  ZK anguage structure with (professional)  ZK anguage structure with (professional)	2 ummarising d their use,  2 knowledge text and its  2 knowledge text and its
and perceptive and 15JBR2 Grammatical Structechnical text contection of the structechnical text contection of the structechnical text contection of the structechnical structechnical Structechnical Structechnical Structech	stics. 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 with the features of the presentation.  Language - Russian 2  Stures 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.  Language - Russian 3  Stics. 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 with the features. Practice of oral and written presentation.  Language - Russian 4  stics. 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 with the features. Practice of oral and written presentation.  Language - Spanish 2  stures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	anguage structure with (professional)  Z feedback skills, so thical registers are vith (professional)  ZK anguage structure with (professional)  ZK anguage structure with (professional)  Z feedback skills, so feedback skills, so	2 ummarising d their use,  2 knowledge text and its  2 knowledge text and its  2 knowledge text and its
and perceptive and 15JBR2 Grammatical Structechnical text contection of the structechnical text contection of the structechnical text contection of the structechnical structechnical Structechnical Structechnical Structech	stics. 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 of features. Practice of oral and written presentation.  Language - Russian 2  stures 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 techniques of management.  Language - Russian 3  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 of 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 of features. Practice of oral and written presentation.  Language - Spanish 2  stures 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 techniques.	anguage structure with (professional)  Z feedback skills, so thical registers are vith (professional)  ZK anguage structure with (professional)  ZK anguage structure with (professional)  Z feedback skills, so feedback skills, so	2 ummarising d their use,  2 knowledge text and its  2 knowledge text and its  2 knowledge text and its
and perceptive and 15JBR2 Grammatical Structechnical text contection of the structechnical text contection of the structechnical text contection of the structechnical structechnical Structechnical Structechnical Structech	stics. 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 with the features of the presentation.  Language - Russian 2  Stures 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.  Language - Russian 3  Stics. 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 with the features. Practice of oral and written presentation.  Language - Russian 4  stics. 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 with the features. Practice of oral and written presentation.  Language - Spanish 2  stures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	anguage structure with (professional)  Z feedback skills, so thical registers are vith (professional)  ZK anguage structure with (professional)  ZK anguage structure with (professional)  Z feedback skills, so feedback skills, so	text and its  2  ummarising and their use,  2  knowledge text and its  2  knowledge text and its  2  ummarising

15JBS3	Language - Spanish 3	Z	2
	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of li		
and perceptive an	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v features. Practice of oral and written presentation.	with (professional)	text and its
15JBS4	Language - Spanish 4	ZK	2
	Earlydage - Spariish 4 istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of k		I
<del>-</del> -	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v		-
	features. Practice of oral and written presentation.	,	
15XN1	Master Project 1	Z	2
15XN2	Master Project 2	Z	2
15XN3	Master Project 3	Z	1
15XN4	Master Project 4	Z	8
15XNDP	Master Thesis	KZ	18
15Y2DN	Transportation Psychology in German Speaking Countries	KZ	2
	roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, getti	l	1
	in traffic, traffic accident, traffic psychology in the internet etc.)		
15Y2HS	Road Transport History	KZ	2
	affic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road		•
1st part of 20th cer	ntury. Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of road	ad travelling in mo	dern period.
	History of road intercections, bridges and traffic control, development of road signs.		_
15Y2JH	Job Hunting in English	KZ	2
•	es a practical guide to applying for a job in English. The interview process is mapped out, with the course including skills practise for ng specifics for job-hunting in English. Students will also be introduced to the English vocabulary and phraseology necessary for a su	_	-
15Y2MS		KZ	2
	Sociology for Managers roach to a corporation. Corporation and its organization. Corporation and its running - human role and communication. Corporation, it		1
	fluman's work position in free market economy. Corporate directorship, work groups, adaptation, strife, different roles and positions in		ai system.
15Y2OF	Specialised French for Transportation and Telecommunications	KZ	2
	ortation (public transport, railway, air, road and ship transport) and telecommunications terminology. Special focus on independent sp		1
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	ı n of legislation witl	other EU
	members. Fundamental principles of health protection and support in selected EU countries.		
15Y2PD	Practical Spanish for Transportation	KZ	2
Development of	communication skills, training of correct written expression of formal character, basic technical vocabulary, cultural specifics of the S	panish speaking c	ountries.
	Terminology of transport and commerce.		_
15Y2PS	Practical Spanish for Transportation, Management and Business	KZ	2
Development of	communication skills, training of correct written expression of formal character, basic technical vocabulary, cultural specifics of the S Terminology of transport and commerce, business letter.	panish speaking c	ountries.
15Y2PT		KZ	2
	Food in Transportation . Interaction transportation and foodstuffs. The health risks. Hygienic safeguard. The practical examples from the Czech Republic and		1
The nathaon policy	dining cars, work trains and other railroad equipment. Legislation.	mom the world. Th	10 100000 01
15Y2PU	Publications and Their Creation	KZ	2
	pes. Footnotes and references. Exploration of facts. Quotations. Formal document layout. Working with information databases. Typogr		I
	editors - MS Word, Tex/LaTeX. Practical creation of simple scientific documents.		
15Y2SP	Seminar on Political Philosophy	KZ	2
	Interpreting of philosophical texts, view of society, state and their system of government.		1
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	Technician and Contemporary Society	KZ	2
Why to take off a h	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 later set and in powerpoors, what are the sights for interest in public officers, a hopeway from the post?	PC, it must be true	e - it's on the
16XN1	Internet and in newspapers, what are the sights for, interest in public affairs - a hangover from the past?  Mostor Project 1	Z	2
	Master Project 1		2
16XN2	Master Project 2	Z	2
16XN3	Master Project 3	Z	1
16XN4	Master Project 4	Z	8
16XNDP	Master Thesis	KZ	18
16Y2HP	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 ys of measuring, prevention, elimination. Exhausts - creation, measurement, reduction, non-regular fuels and drives. Ergonomy - sitting	-	
priysical values, wa	reach. Condition - heating, ventilation, air-conditioning, filtration, tiredom.	, stariding, control	, operational
16Y2KV	Car Body Design	KZ	2
	pody, high-load car body, bus car body, and motorcycle as a construction set. Principles of design, production, testing and operation. I		1
	re and passive safety parts. Ergonomics, HMI, view out of the vehicle, operational extent, view behind the car. Conditioning tools, sign		-
	of the car body. Design and artistic design principles. Practical training.	-	
16Y2MK	Quality Methods for Vehicles	KZ	2
	nt methods list, customer data acquisition and analysis of customer requirements, QFD, DFM, DFA, DFS. FMEA (Failure mode effect	analysis). Elemen	ts of parallel
	(team) design.		
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		
and free	eware tools for creation and processing of 2D, 3D and interactive graphics, and basics of programming language VRML and graphic l	ibraries (OpenGL)	

16Y2ST	Special Technologies in Transport and Telecommunications	KZ	2
Micro, nano and s	special technologies, electric arc and its applications, plasma technologies, dipping, beam technologies, electron beams technology in vehicles, laser and laser technologies, soldering, gluing, ultrasound, diffusion, friction and explosion technologies, micro stoves,		nending of
16Y2TT	Transportation and Building Technology and Equipment	KZ	2
	nd building technology and equipment. Transport of solid and mass material, soil and rock above all. Highway and underground consi		_
	n and construction features, delivered mass calculation, economy of operation. Technics and technology of underground constructions		
	management methodology (ultrasound, laser, GPS, total stations).		
17HDI	Evaluation of Transport Investments	Z,ZK	5
ransport and its ro	ble in national economy, costs of transport companies, transport and environment, externalities and their solution, investments in transport investments by CPA	sport and their ev	aluation, th
17KMD	multiplier effects of transport; evaluation of transport investments by CBA.  Quantitative Methods in Transport	Z,ZK	6
I I	on the issue of the use of undirected graphs tree type, planar graphs and their coloring. Further distribution problems, facility location		
	odels of integer linear programming. Besides the use of exact methods there are described simple and also more sofisticated heuristi	-	
17MGD	Management of Transport Systems	Z,ZK	3
	Functions, processes and systems of management in transport, organisational structures, strategy, social responsibility, soft sl		1
17MID	Managerial Information Systems in Transport	Z,ZK	3
	n building IS of modern transport company. New EU legislation on cyber security and data protection puts transport organizations in 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		-
3413C 10043C3 011 ti	budget, the basic documents for the possible assignment of the contract.		tric illiano
17PPC	Carriage Processes	ZK	3
ı	Domestic carriages, international carriages, nomenclature of goods, pricing, contracting, responsibility for damages.		<u>'</u>
17RLOG	Supply Chains Management	Z,ZK	5
-	ogistics system. Horizontal and vertical dimensions of logistics integration. Types of logistics chain. Logistics chain with continual flows		
-	s. Management based on planning in closed circle with information feedback. Possible position of decoupling point in a logistics chain		1
17RZO	Management of Inventory and Renewal, Schedules in Logistics   ed on optimizing inventory management, maintenance and equipment renewal. In addition to classification models, inventory and reno	Z,ZK vation_students.w	4 vill be famili
	ls of deterministic and stochastic inventory models and renewal. In the second part, attention will be paid to the models of theory sche		
	Flow-Shop, Open-Shop and methods of schedules optimization.		
17TRI	Creation and Control of Investment Projects	KZ	2
Technical-econo	mic data processing of investment porioject, design of logistics systems, methodology of technological and logistic centres design processing of investment porioject, design of logistics systems, methodology of technological and logistic centres design processing of investment porioject, design of logistics systems, methodology of technological and logistic centres design processing of the contract of the contr	oposal, value eng	ineering.
17TSI	Technology of Road Transport	KZ	2
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18XN1	Master Project 1	Z	2
18XN2	Master Project 2	Z	2
18XN3	Master Project 2  Master Project 3	<u>Z</u>	1
18XN4	Master Project 4	Z	8
18XNDP	Master Thesis	KZ	18
18Y2DC	Dynamics of Transport Routes and Vehicles	KZ KZ	2
	alculations of more mass systems. Analysis of the forces acting between the vehicle and transport route. Creation of dynamic models of		_
•	ns with a finite number of degrees of freedom. Methods of stiffness constants and pliability constants. Fundamentals of vibration of bridge		•
	of oscillation. Experimental methods in dynamics.		
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 environments	ent and loading	on materials
	behavior are the main discussed topics.		
18Y2MP	Finite Element Method And Its Application	KZ	2
	tical formulation of the Finite Element Method. Direct Stiffness Method used in structural mechanics. Evaluation of stiffness matrices for the finite Element Method.		ū
variational prin	ciples. Element formulation (bar and beam elements, CST, LST, quadrilateral, tetrahedral and brick elements). Natural coordinates, na	atural shape func	tions and
18Y2SD	isoparametric representation. Numerical integration. Introduction to dynamics. FEM programming.	KZ	2
	Reliability and Diagnostics, Experimental Methods sed on theoretical background and practical experience in the field of reliability of constructions, implementation of diagnostic procedur.		
	nination of residual life of structures. For this purpose, non-destructive methods of experimental mechanics (e. g. strain-gauge measure		
oloolo ana aotom	optical methods, including electron microscopy, will be used.	mont, priotociaci	aoimon y ) am
18Y2UB	Accident Biomechanics and Safety	KZ	2
	Methods of Medical Diagnostics - RTG, CT, MRI, US. Dynamics of traumatic events. Factors influencing the severity of an accident and		
•	traffic. Pedestrian injuries. Injury in railway and air traffic accidents. Analysis of biomechanical events in accidents and their computation		
	treatment and rehabilitation. Protective elements and safety measures in transport.	_	•
18Y2VC	Computational Mechanics in Transportation	KZ	2
Principle of virtual	work and variational principles in FEM. Bar shaped, planar and three - dimensional structures in FEM. FEM in statics and in dynamic	s of transportation	nal systems
Elastic	elastoplastic and viscoelastic material. FEM in problems of biomechanics. Numerical analysis of structural parts with programme AN	SYS on instance	S.
20XN1	Master Project 1	Z	2
20XN2	Master Project 2	Z	2
20XN3	Master Project 3	Z	1
20XN4	Master Project 4	Z	8
20XNDP	Master Thesis	KZ	18
20Y2PR	Prediction of time series	KZ	2
	e series prediction, meaning of prediction, basics of quantitative prediction. Methods for predictive quality evaluation, descriptive statistic		RMSE, naive
			,
p	ction for general formula of loss function. Calculation and programming environment R. Regression models, basics of linear regression	i, simple regressi	on. Multiple
F	regression, statistical tests of linear dependence, selection of input variables.	ı, simple regressi	on. Multiple
20Y2TE		, simple regressi	on. Multiple
20Y2TE	regression, statistical tests of linear dependence, selection of input variables.	KZ	2
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21Y2VA	Selected Chapters of Aerodynamics	KZ	2
	eal gases, atmosphere, aeronautical applications of external and internal aerodynamics, compressible internal flow, inlet no	ozzles and drive nozzles, c	ompressibl
external flow, supercrit	ical wings and profiles, vertical and oblique shock wave, energy losses, aeronautical aerodynamic profiles of wings, prope	ellers, blades gratings, lift,	drag, pola
	viscosity, laminar and turbulent flow, boundary layer.		
22XN1	Master Project 1	Z	2
22XN2	Master Project 2	Z	2
22XN3	Master Project 3	Z	1
22XN4	Master Project 4	Z	8
22XNDP	Master Thesis	KZ	18
22Y2PS	Traffic Accidents Computer Simulation and Analysis	KZ	2
	ulation, multi body systems and vehicle active safety systems, vehicle slipping, external influence on virtual model, crash	tests evaluation, single-tra	ack vehicle
	vehicle passangers, pedestrian, traffic accident simulation and analysis.		
23KRIO	Crisis Management for Engineering Branches	KZ	3
	ts, terms, concept and safety management aims. Causes and consequences of disasters. Safety management. Crisis ma	ınagement-its aims, dema	nds, roles
inciples, specifics an	d comparidon with the EU and NATO. Organisational, personal, legislative, finance, material and technical provision. The	IZS role. Planning. Protect	tion of pub
	and critical infrastructure. Problem solving.		
23MAR	Risk Analysis and Management	Z,ZK	3
oncept of risks and to	erms. Risk sources, definition of hazard, impacts and risks. Methods for identification, analysis, assessment and manager	nent of risks. Risk enginee	ring targe
and good engineering	practice. Methods, tools and techniques for risk engineering. System of systems risk. Application of strategic and system	approach for benefit of s	ecurity and
	development. Territorial, emergency and crisis planning. Human factor - its role.		
23XN1	Master Project 1	Z	2
23XN2	Master Project 2	Z	2
23XN3	Master Project 3	Z	1
23XN4	Master Project 4	Z	8
23XNDP	Master Thesis	KZ	18
23Y2BP	Security Class	KZ	2
The most prevalent t	opics include data management, data and text mining applications, terrorism informatics, deception and intent detection,	terrorist and criminal socia	al network
	analysis, crime analysis, cyber-infrastructure protection, transportation infrastructure security, and information assurance,	among others.	
23Y2FB	Physics for Security Branches	KZ	2
Grounds of physics	of substances and phenomena at extreme conditions. Grounds of rheology. Physics of Earth's interior. Geophysics. Physics	sics of atmosphere. Applic	ations in
	dengineering branches directed to safety.		
23Y2VR	Cope with Risks in Engineering Branches	KZ	2
ypes of engineering b	ranches directed to risks, procedures used in risk engineering, ensuring the secured systems, ensuring the safe systems,	ensuring the safe systems	of system
23Y2VZ	Leadership and Human Resource Development	KZ	2
ntroduction to the stu	dy of human resources, human resources management, corporate goals, strategies, cultural and ethical aspects. Team m	anagement, communication	on in team
str	ategy and planning in human resources, ethics and corporate culture, cross-cultural differences. The labor code. Introduct	ion into protocols.	
23Y2ZM	Intelligence Means and Methods	KZ	2
listory and the present	of intelligence services and their role in the modern world. How intelligence services handle with information. Methods and p	procedures of collecting ar	d evaluati
formation. Means of i	ntelligence services. Internal and external intelligence, military intelligence. The means and methods of state security services.	vices. Cooperation among	Intelligen
	services within NATO, EU. The organization of the intelligence services.		

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