Study plan

Name of study plan: LO nav.prez.14/15

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: 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:

TTO COLL CIT LITE S	Name of the course / Name of the group of courses		Г	1		
Code	(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+70E	L	Z
12XNDP	Master Thesis	KZ	18	0P+20C+70E	L	Z
15XNDP	Master Thesis	KZ	18	0P+20C+70E	L L	Z
16XNDP	Master Thesis	KZ	18	0P+20C+70E	L	Z
17XNDP	Master Thesis	KZ	18	0P+20C+70E	L L	Z
14XNDP	Master Thesis	KZ	18	0P+20C+70E	L L	Z
20XNDP	Master Thesis	KZ	18	0P+20C+70E	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+70E	L	Z
22XNDP	Master Thesis Luboš Nouzovský	KZ	18	0P+20C+70E	L	Z
23XNDP	Master Thesis	KZ	18	0P+20C+70E	L L	Z
18XNDP	Master Thesis	KZ	18	0P+20C+70E	L	Z

Characteristics of the courses of this group of Study Plan: Code=XNDP 13/14 Name=Diplomová práce (obory PL, DS, LA +[ID]) od 13/14

11XNDP	Master Thesis	KZ	18
12XNDP	Master Thesis	KZ	18
15XNDP	Master Thesis	KZ	18
16XNDP	Master Thesis	KZ	18
17XNDP	Master Thesis	KZ	18
14XNDP	Master Thesis	KZ	18
20XNDP	Master Thesis	KZ	18
21XNDP	Master Thesis	KZ	18
22XNDP	Master Thesis	KZ	18
23XNDP	Master Thesis	KZ	18
18XNDP	Master Thesis	KZ	18

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

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:

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, Markéta Musilová, Eva Rezlerová, Jan Feit, Jitka He manová, Marie Michlová, Lenka Monková, Peter Morpuss, Markéta Vojanová	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 for	or certificates
FCE, CAE.			

Code of the group: 1.S.NPLO 13/14

Name of the group: 1.sem.LO nav.prez.13/14

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 10 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
17DLOG	Transport Logistics	Z,ZK	3	2+1	Z	Z
15J2A1	Language - English 1 Barbora Horá ková, Markéta Musilová, Eva Rezlerová, Jan Feit, Jitka He manová, Marie Michlová, Lenka Monková, Peter Morpuss, Markéta Vojanová,	Z	2	0P+2C+10B	Z	Z
17LOGR	Logistics Chains	Z,ZK	5	2+2	Z	Z
17MAFI	Principles of Managerial Finance	KZ	3	2+1	Z	Z
17MP	International Carriage	ZK	3	2+0	Z	Z
17SIR	System Analysis and Decision Making	KZ	2	2+0	Z	Z
17TSI	Technology of Road Transport Michal Drábek	KZ	2	2P+0C+8B	Z	Z
17TZE	Technology of Railway Transport	ZK	2	2P+0C	Z	Z
17TZEC	Technology of Railway Transport - Exercise	Z	2	0+2	Z	Z
11TER	Game Theory and Optimal Decision-Making Magdalena Hykšová Magdalena Hykšová (Gar.)	ZK	2	2P+0C+8B	Z	Z

17DLOG	Transport Logistics	Z,ZK	3
Transport policy of Euro	pean Union, Czech Republic, counties and municipalities. Vehicles, transport infrastructure and technology, management an	d information syst	ems in transport
and logistics, legal fran	nework and the people in the transport system. Transport service, transport logistics optimization methodology, progressive tra	ansportation syste	ms and the use
of telematics application	ns in transport logistics.		
15J2A1	Language - English 1	Z	2
Presentation Skills - ex	pert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.	,	
17LOGR	Logistics Chains	Z,ZK	5
Logistics chain. Logistic	s system. Horizontal and vertical dimensions of logistics integration. The types of logistics chains. Logistics chain with continu	ual flows, with inte	rrupted flows,
with synchronous flows	. Management based on an independent method of planning. Management based on planing in closed circle with information	feedback. Possible	e position of the
decoupling point in a lo	gistics chain. Chain effects. Case studies.		
17MAFI	Principles of Managerial Finance	KZ	3
Introduction of finance.	Present value and alternative cost of capital. Investment efficienty evaluation. NPV, IRR. Capital assets pricing models, basic	s of portfolio theol	y. Bonds and
stock price. Model with	constant growth. Expected return and standard deviation of portfolio. Risk free return. Market portfolio. Securities line. Portfoli	o with maximal re	turn. Short term
finance. Cash flow mar	agement.		
4=145	International Carriage	ZK	3
17MP		٠	
	oort organizations at government level, at enterprise level, implementation of international relations. Mission east-west UIC. A	greement on interr	national carriage
The international transp	oort organizations at government level, at enterprise level, implementation of international relations. Mission east-west UIC. A S. Vienna convention on the law for the road, the Budapest convention on the contract of carriage, the UN convention on maritim	•	•

System Analysis and Decision Making System approach, phases of solution. Decision processes, basic terms, classification, scales. Decision under risk and uncertainty, methods, applications. Decision with multiple objectives, weight determination. Multiple objective evaluation of variants. Vector optimization. Stochastic programming - active and passive methods. Expert methods, organisation, assessment. Advanced decision methods - fuzzy logic, genetic algorithms, chaos theory. Technology of Road Transport Legislative, operational, technical, logistic and safety conditions of road transport, basic transport technologies, special transport, international agreements, requirements on the parameters and specialization of transport, handling and loading/unloading means, maintenance, service and repairs of road vehicles, safety of road transport and choice of optimal transport unit. 17TZE Technology of Railway Transport Track line capacity assesment, 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. 17TZEC Technology of Railway Transport - Exercise Modeling operational situation with a system running time between IPT-nodes, calculation of operation costs for different timetable concepts (operational costs, traction energy, engine and personal rosters) 11TER Game Theory and Optimal Decision-Making Decision-making theory, utility theory. Explicit form games, backward induction. Normal form games. Antagonistic conflict, matrix games. Repeated games, evolutionary game theory. Cooperative games without transferable payoffs. Cooperative games with transferable payoffs (imputation, core, Shapley value, nucleolus). Applications of game theory above all in economics and transportation. Code of the group: 2.S.NPLO 13/14 Name of the group: 2.sem.nav.prez.LO 13/14 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 8 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
15JBA2	Language - English 2 Barbora Horá ková, Markéta Musilová, Eva Rezlerová, Jan Feit, Jitka He manová, Marie Michlová, Lenka Monková, Peter Morpuss, Markéta Vojanová,	Z	2	0P+2C+10B	L	Z
17KVAD	Quantitative Methods in Transport	Z,ZK	4	2+1	L	Z
23MAR	Risk Analysis and Management	Z,ZK	3	2P+1C+10B	L	Z
17MGD	Management of Transport Systems	Z,ZK	3	2P+1C+8B	L	Z
14MTSY	Telecommunications Systems Management	KZ	2	2+0	L	Z
17MIS	Managerial Information Systems in Transportation	ZK	3	2+0	L	Z
20SYDO	System Transport Strategy	KZ	3	2+1	L	Z
11THRO	Queuing Theory Šárka Vorá ová Šárka Vorá ová Šárka Vorá ová (Gar.)	ZK	2	2P+0C+8B	L	Z

15JBA2	Language - English 2	Z	2
Presentation Skills	expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement	ent. '	
17KVAD	Quantitative Methods in Transport	Z,ZK	4
Distribution tasks, r	nodels, methods, comparison, assignment tasks, models, methods, comparison, location tasks, discrete and continuous loca	ition, allocation, routin	g of vehicles,
VRP, TSP, design for	networks and subnetworks in transportation systems, methods of network analysis in technology of transportation and logis	tics systems, principle	s of modelling.
23MAR	Risk Analysis and Management	Z,ZK	3
Concept of risks an	d terms. Risk sources, definition of hazard, impacts and risks. Methods for identification, analysis, assessment and managen	nent of risks. Risk eng	ineering targets
and good engineer	ng practice. Methods, tools and techniques for risk engineering. System of systems risk. Application of strategic and system	approach for benefit o	f security and
development. Territo	orial, emergency and crisis planning. Human factor - its role.		
17MGD	Management of Transport Systems	Z,ZK	3
Functions, process	es and systems of management in transport, organisational structures, strategy, social responsibility, soft skills.		
14MTSY	Telecommunications Systems Management	KZ	2
New trends in the a	rea of e-communication services and relevant ecommunications networks, conditions and tools to provide optional set of serv	vices of required parar	neters based o
hierarchal architect	ure of service management system (TMN). Positioning of broadband services, convergence trends leading to NGN. Financia	I criteria and tools as	an integral part
of providing service			
17MIS	Managerial Information Systems in Transportation	ZK	3
Communication and	I information as a base of managerial skills. Information technology and their influence to managerial, communication and inf	ormation porcess in tra	asport company
Obtaining of proces	sing and transmission information. Information systems security. Possible threats to information systems. Create students de	sign of transport comp	any informatio
portal.			
20SYDO	System Transport Strategy	KZ	3
Complet overview of	f system sciences, system approach to information engineering, definition of system strategy, connections with scientific me	thodological base pf tr	ansportation;
porccoesses of stra	tegical thinkig, system of strategical management, application space of strategies with link to sustainable development, tools f	or mastering of strated	ies with suppo
of geoinformatical e	negineer technologies.		

11THRO Queuing Theory

ZK

2

Discrete event process, definition, random distribution, and probability. Basic processes, process of revitalisation. Markov process, Markov models, Kendall classification, model M/M/1, models M/M/n. Non-markovian models, model M/C/n, models G/G/n. Models with continuous flow. Service net, examples of Petri net. Computer simulation.

Code of the group: 3.S.NPLO 13/14

Name of the group: 3.sem.LO nav.prez.13/14

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

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
12DZP	Transport and Environment	Z	2	2P+0C	Z	Z
17EDO	Economics of Transport	Z,ZK	6	2+2	Z	Z
15JBA3	Language - English 3 Barbora Horá ková, Markéta Musilová, Eva Rezlerová, Jitka He manová, Marie Michlová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Dana Boušová	Z	2	0P+2C+10B	Z	Z
23KRIO	Crisis Management for Engineering Branches	KZ	3	2P+0C	Z	Z
14PPRP	Computer Aided Project Management Marek Kalika Marek Kalika (Gar.)	KZ	2	0P+2C	L	Z
17PMD	Project Management in Transportation	Z,ZK	6	3+1	Z	Z
11STS	Stochastic Systems Šárka Vorá ová, Evženie Uglickich, Natálie Blahitka, Michal Matowicki, Pavla Pecherková Pavla Pecherková Šárka Vorá ová (Gar.)	Z,ZK	4	2P+2C+14B	Z	Z

12DZP	Transport and Environment	Z	2
This course aims the	the impact of transport on environment. The accent is put mainly on noise and vibration, emission, barrier effect and energy dem	ands. The noise mea	asury is part and
parcel of this cours	rse.		
17EDO	Economics of Transport	Z,ZK	6
Transport in the CF	R in the European and world context, transport funding in the CR, specifics of costing, legislation, functional efficiency of transp	ort system, technica	I - economic
characteristics of to	transport modes - forwarding ability, forwarding speed, economics of transport enterprise (microeconomics) - indicators according	ng to modes of trans	port, economic
approach.			
15JBA3	Language - English 3	Z	2
Presentation Skills	s - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagemer	t.Optional courses fo	or certificates
FCE, CAE.			
- , -			
-	Crisis Management for Engineering Branches	KZ	3
23KRIO	Crisis Management for Engineering Branches ssets, terms, concept and safety management aims. Causes and consequences of disasters. Safety management. Crisis management.		-
23KRIO Human system. As		gement-its aims, den	nands, roles,
23KRIO Human system. As principles, specific	ssets, terms, concept and safety management aims. Causes and consequences of disasters. Safety management. Crisis management	gement-its aims, den	nands, roles,
23KRIO Human system. As principles, specific and critical infrastr	ssets, terms, concept and safety management aims. Causes and consequences of disasters. Safety management. Crisis manages and comparidon with the EU and NATO. Organisational, personal, legislative, finance, material and technical provision. The IZ	gement-its aims, den	nands, roles,
23KRIO Human system. As principles, specification or critical infrastrication 14PPRP	ssets, terms, concept and safety management aims. Causes and consequences of disasters. Safety management. Crisis manages and comparidon with the EU and NATO. Organisational, personal, legislative, finance, material and technical provision. The IZ ructure. Problem solving.	gement-its aims, den S role. Planning. Pro	nands, roles, etection of publ
23KRIO Human system. As principles, specifica and critical infrastr 14PPRP What is the project	ssets, terms, concept and safety management aims. Causes and consequences of disasters. Safety management. Crisis manages and comparidon with the EU and NATO. Organisational, personal, legislative, finance, material and technical provision. The IZ ructure. Problem solving. Computer Aided Project Management	gement-its aims, den S role. Planning. Pro	nands, roles, otection of puble 2 nt, activity
23KRIO Human system. As principles, specifica and critical infrastrest 14PPRP What is the project definition, stages, of the project of the p	ssets, terms, concept and safety management aims. Causes and consequences of disasters. Safety management. Crisis manages and comparidon with the EU and NATO. Organisational, personal, legislative, finance, material and technical provision. The IZ ructure. Problem solving. Computer Aided Project Management ct? The basic terms a concepts of project management. Life cycle of the project and its phased approach. Analysis and specifical	gement-its aims, den S role. Planning. Pro	nands, roles, otection of puble 2 nt, activity
23KRIO Human system. As principles, specifica and critical infrastr 14PPRP What is the project definition, stages, or restrictions, assign	ssets, terms, concept and safety management aims. Causes and consequences of disasters. Safety management. Crisis manages and comparidon with the EU and NATO. Organisational, personal, legislative, finance, material and technical provision. The IZ ructure. Problem solving. Computer Aided Project Management Ct? The basic terms a concepts of project management. Life cycle of the project and its phased approach. Analysis and specifical objectives and measurability. Risk events and risk planning. Project change management during implementation. Preparation of	gement-its aims, den S role. Planning. Pro	nands, roles, otection of puble 2 nt, activity
23KRIO Human system. As principles, specifica and critical infrastr 14PPRP What is the project definition, stages, or restrictions, assign 17PMD	ssets, terms, concept and safety management aims. Causes and consequences of disasters. Safety management. Crisis manages and comparidon with the EU and NATO. Organisational, personal, legislative, finance, material and technical provision. The IZ ructure. Problem solving. Computer Aided Project Management Computer Aided Project management. Life cycle of the project and its phased approach. Analysis and specifical objectives and measurability. Risk events and risk planning. Project change management during implementation. Preparation of nments, calendars etc.) Project planning and optimization - time, resources.	ement-its aims, den S role. Planning. Pro KZ tion of the assignme the project outline (step 2,ZK	nands, roles, tection of publes 2 nt, activity activities,
23KRIO Human system. As principles, specifica and critical infrastriction and critical infrastriction and critical infrastriction, stages, or restrictions, assign 17PMD Projects and project	ssets, terms, concept and safety management aims. Causes and consequences of disasters. Safety management. Crisis manages and comparidon with the EU and NATO. Organisational, personal, legislative, finance, material and technical provision. The IZ ructure. Problem solving. Computer Aided Project Management Corporate Aided Project Management Corporate Aided Project management. Life cycle of the project and its phased approach. Analysis and specifical objectives and measurability. Risk events and risk planning. Project change management during implementation. Preparation of naments, calendars etc.) Project planning and optimization - time, resources. Project Management in Transportation	pement-its aims, den S role. Planning. Pro KZ tion of the assignme the project outline (state of the control of the control of the control of the control of the project outline (state of the project outline (state of the project outline).	nands, roles, stection of publi 2 nt, activity activities, 6 function and
23KRIO Human system. As principles, specifica and critical infrastriction and critical infrastriction and critical infrastriction, stages, or restrictions, assign 17PMD Projects and project fulfillment of its confulling the confulling and project and project fulfillment of its confulling and project and project and project fulfillment of its confulling and project and project and project fulfillment of its confulling and project and p	ssets, terms, concept and safety management aims. Causes and consequences of disasters. Safety management. Crisis manages and comparidon with the EU and NATO. Organisational, personal, legislative, finance, material and technical provision. The IZ ructure. Problem solving. Computer Aided Project Management Computer Aided Project management. Life cycle of the project and its phased approach. Analysis and specifical objectives and measurability. Risk events and risk planning. Project change management during implementation. Preparation of naments, calendars etc.) Project planning and optimization - time, resources. Project Management in Transportation ect management, content and project leading, project process organization. Assessment criteria decision, technical and economic	pement-its aims, den S role. Planning. Pro KZ tion of the assignme the project outline (state of the control of the control of the control of the control of the project outline (state of the project outline (state of the project outline).	nands, roles, stection of publi 2 nt, activity activities, 6 function and
23KRIO Human system. As principles, specifica and critical infrastr 14PRP What is the project definition, stages, or restrictions, assign 17PMD Projects and project fulfillment of its con EIA, selection proceed.	ssets, terms, concept and safety management aims. Causes and consequences of disasters. Safety management. Crisis manages and comparidon with the EU and NATO. Organisational, personal, legislative, finance, material and technical provision. The IZ ructure. Problem solving. Computer Aided Project Management The basic terms a concepts of project management. Life cycle of the project and its phased approach. Analysis and specifical objectives and measurability. Risk events and risk planning. Project change management during implementation. Preparation of naments, calendars etc.) Project planning and optimization - time, resources. Project Management in Transportation ect management, content and project leading, project process organization. Assessment criteria decision, technical and economismponents. Spatial development and decision making, building act. Financial instruments in project management, funding models	pement-its aims, den S role. Planning. Pro KZ tion of the assignme the project outline (state of the control of the control of the control of the control of the project outline (state of the project outline (state of the project outline).	nands, roles, tection of publes 2 nt, activity activities, 6 function and
23KRIO Human system. As principles, specifica and critical infrastr 14PRP What is the project definition, stages, or restrictions, assign 17PMD Projects and project fulfillment of its con EIA, selection process.	ssets, terms, concept and safety management aims. Causes and consequences of disasters. Safety management. Crisis manages and comparidon with the EU and NATO. Organisational, personal, legislative, finance, material and technical provision. The IZ ructure. Problem solving. Computer Aided Project Management ct? The basic terms a concepts of project management. Life cycle of the project and its phased approach. Analysis and specifical objectives and measurability. Risk events and risk planning. Project change management during implementation. Preparation of naments, calendars etc.) Project planning and optimization - time, resources. Project Management in Transportation ext management, content and project leading, project process organization. Assessment criteria decision, technical and economizations. Spatial development and decision making, building act. Financial instruments in project management, funding models icces, public commision.	kZ tion of the assignme the project outline (Z,ZK ical criteria. Criteria (payment instrument	nands, roles, tection of publication of publication and ts. Spatial plans

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		ZP
16XN1	Master Project 1	Z	2	0P+2C+4B	Z	ZP
17XN1	P emysl Toman Master Project 1 Michal Drábek, Václav Baroch, Alexandra Dvo á ková, Veronika Faifrová, Eliška	Z	2	0P+2C+4B		ZP
18XN1	Glaserová, Rudolf F. Heidu, Tomáš Horák, Vít Janoš, Milan K íž, Master Project 1 Václav Rada, Nela Kr má ová	Z	2	0P+2C+4B	Z	ZP
20XN1	Master Project 1	Z	2	0P+2C+4B	Z	ZP
ZUXIVI	Jií R ži ka			UF 72C74B		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	Z	2	0P+2C+8B	L	ZP
17XN2	P emysl Toman, Josef Mík Master Project 2 Michal Drábek, Václav Baroch, Alexandra Dvo á ková, Veronika Faifrová, Rudolf F. Heidu, Tomáš Horák, Vít Janoš, Milan K íž, Olga Mertlová, Vít Janoš (Gar.)	Z	2	0P+2C+8B		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	Z	2	0P+2C+8B		ZP
23XN2	Michal Frydrýn, Karel Kocián, Luboš Nouzovský, Zden k Svatý, Jakub Nová ek	Z	2	0P+2C+8B	_	ZP
11XN3	Master Project 2 Master Project 3	Z	1	0P+4C	Z	ZP
12XN3	Master Project 3 Zuzana arská, Dagmar Ko árková, Martin Jacura, Jan Kruntorád, Ond ej Trešl, David Vodák, Tomáš Javo ík, Pavel Purkart, Lukáš Týfa,	Z	1	0P+4C	Z	ZP
14XN3	Master Project 3	Z	1	0P+4C	Z	ZP
15XN3	Master Project 3	Z	1	0P+4C	Z	ZP
16XN3	Master Project 3 P emysl Toman, Josef Mik, Michal Cenkner, Josef Svoboda	Z	1	0P+4C	Z	ZP
17XN3	Master Project 3 Michal Drábek, Václav Baroch, Alexandra Dvo á ková, Veronika Faifrová, Eliška Glaserová, Rudolf F. Heidu, Tomáš Horák, Vít Janoš, Milan K íž,	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 Mík, Michal Cenkner	Z	8	0P+4C	L	ZP
17XN4	Master Project 4 Michal Drábek, Václav Baroch, Alexandra Dvo á ková, Veronika Faifrová, Rudolf F. Heidu, Tomáš Horák, Vít Janoš, Milan K íž, Olga Mertlová, 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	Ĺ	ZP

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, IBTI) od 14/15

11XN1	[BT]) od 14/15			
Master Project 1	11XN1	Master Project 1		2
15XN1 Master Project 1 Z 2 16XN1 Master Project 1 Z 2 15XN1 Master Project 1 Z 2 15XN1 Master Project 1 Z 2 22XN1 Master Project 1 Z 2 21XN1 Master Project 1 Z 2 23XN1 Master Project 1 Z 2 23XN1 Master Project 1 Z 2 21XN2 Master Project 1 Z 2 21XN2 Master Project 2 Z 2 22XN2 Master Project 3 Z 1	12XN1			2
Master Project 1	14XN1	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 21XN2 Master Project 2 Z 2 11XN2 Master Project 2 Z 2 12XN2 Master Project 2 Z 2 16XN2 Master Project 2 Z 2 16XN2 Master Project 2 Z 2 17XN2 Master Project 2 Z 2 12XN2 Master Project 2 Z 2 20XN2 Master Project 2 Z 2 21XN2 Master Project 2 Z 2 22XN2 Master Project 3 Z 2 23XN2 Master Project 3 Z 1 14XN3 Master Project 3 Z 1	15XN1	Master Project 1	Z	2
18XNI	16XN1	Master Project 1	Z	2
DOXNI	17XN1	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 11XN2 Master Project 2 Z 2 14XN2 Master Project 2 Z 2 14XN2 Master Project 2 Z 2 15XN2 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 3 Z 1 12XN3 Master Project 3 Z 1 12XN3 Master Project 3 Z 1 15XN3 Master Project 3 Z 1 1	18XN1	Master Project 1	Z	2
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12XN12 Master Project 2 Z 2 14XN12 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 3 Z 1 12XN3 Master Project 3 Z 1 12XN3 Master Project 3 Z 1 14XN3 Master Project 3 Z 1 15XN3 Master Project 3 Z 1 15XN3 Master Project 3 Z 1 17XN3 Master Project 3 Z 1 18XN3 Master Project 3 Z 1 18XN3 Master Project 3 Z 1 2XN3 Master Project 3 Z 1	23XN1	Master Project 1	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 3 Z 1 11XN3 Master Project 3 Z 1 12XN3 Master Project 3 Z 1 14XN3 Master Project 3 Z 1 15XN3 Master Project 3 Z 1 17XN3 Master Project 3 Z 1 12XN3 Master Project 3 Z 1 20XN3 Master Project 3 Z 1 21XN3 Master Project 3 Z 1 22XN3 Master Project 3 Z 1 21XN3 Master Project 3 Z 1 2	11XN2	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 3 Z 1 12XN3 Master Project 3 Z 1 14XN3 Master Project 3 Z 1 14XN3 Master Project 3 Z 1 15XN3 Master Project 3 Z 1 16XN3 Master Project 3 Z 1 18XN3 Master Project 3 Z 1 20XN3 Master Project 3 Z 1 21XN3 Master Project 3 Z 1 2	12XN2	Master Project 2	Z	2
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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 3 Z 1 11XN3 Master Project 3 Z 1 12XN3 Master Project 3 Z 1 14XN3 Master Project 3 Z 1 15XN3 Master Project 3 Z 1 12XN3 Master Project 3 Z 1 12XN3 Master Project 3 Z 1 1	15XN2	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 3 Z 1 12XN3 Master Project 3 Z 1 12XN3 Master Project 3 Z 1 14XN3 Master Project 3 Z 1 15XN3 Master Project 3 Z 1 15XN3 Master Project 3 Z 1 17XN3 Master Project 3 Z 1 12XN3 Master Project 3 Z 1 20XN3 Master Project 3 Z 1 21XN3 Master Project 3 Z 1 22XN3 Master Project 3 Z 1 21XN3 Master Project 4 Z 8 12XN4 Master Project 4 Z 8 12XN4 Master Project 4 Z 8 12XN4 Master Project 4 Z 8 1	16XN2	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 3 Z 1 12XN3 Master Project 3 Z 1 12XN3 Master Project 3 Z 1 15XN3 Master Project 3 Z 1 15XN3 Master Project 3 Z 1 16XN3 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 4 Z 8 12XN4 Master Project 4 Z 8 12XN4 Master Project 4 Z 8 15XN4 Master Project 4 Z 8 15XN4 Master Project 4 Z 8 15XN4 Master Project 4 Z 8 1	17XN2	Master Project 2	Z	2
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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 20XN3 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 15XN4 Master Project 4 Z 8 15XN4 Master Project 4 Z 8 16XN4 Master Project 4 Z 8 17XN4 Master Project 4 Z 8 18XNA Master Project 4 Z 8 2	21XN2	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 23XN3 Master Project 3 Z 1 23XN3 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 18XN4 Master Project 4 Z 8 18XN4 Master Project 4 Z 8 2	22XN2	Master Project 2	Z	2
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 4 Z 8 12XN4 Master Project 4 Z 8 14XN4 Master Project 4 Z 8 15XN4 Master Project 4 Z 8 15XN4 Master Project 4 Z 8 16XN4 Master Project 4 Z 8 18XN4 Master Project 4 Z 8 18XN4 Master Project 4 Z 8 20XN4 Master Project 4 Z 8 21XN4 Master Project 4 Z 8 2	23XN2	Master Project 2	Z	2
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 20XN4 Master Project 4 Z 8 20XN4 Master Project 4 Z 8 21XN4 Master Project 4 Z 8 21XN4 Master Project 4 Z 8 2	11XN3	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 4 Z 8 12XN4 Master Project 4 Z 8 12XN4 Master Project 4 Z 8 15XN4 Master Project 4 Z 8 15XN4 Master Project 4 Z 8 16XN4 Master Project 4 Z 8 17XN4 Master Project 4 Z 8 20XN4 Master Project 4 Z 8 20XN4 Master Project 4 Z 8 21XN4 Master Project 4 Z 8 22XN4 Master Project 4 Z 8 22XN4 Master Project 4 Z 8 2	12XN3	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 4 Z 8 12XN4 Master Project 4 Z 8 12XN4 Master Project 4 Z 8 15XN4 Master Project 4 Z 8 16XN4 Master Project 4 Z 8 16XN4 Master Project 4 Z 8 18XN4 Master Project 4 Z 8 20XN4 Master Project 4 Z 8 20XN4 Master Project 4 Z 8 21XN4 Master Project 4 Z 8 22XN4 Master Project 4 Z 8 22XN4 Master Project 4 Z 8	14XN3	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 4 Z 8 12XN4 Master Project 4 Z 8 12XN4 Master Project 4 Z 8 15XN4 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 22XN4 Master Project 4 Z 8	15XN3	Master Project 3	Z	1
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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 22XN4 Master Project 4 Z 8	17XN3	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 22XN4 Master Project 4 Z 8	18XN3	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 22XN4 Master Project 4 Z 8	20XN3	Master Project 3	Z	1
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22XN4 Master Project 4 Z 8 23XN4 Master Project 4 Z 8	21XN4		Z	8
23XN4 Master Project 4 Z 8	22XN4		Z	8
			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 14/15

Name of the group: PVP nav.prez.(DS,ID,LO) 14/15
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
23Y2AE	Acoustics and Electroacoustics in Transportation	KZ	2	2+0	Z	PV
12Y2BM	Safety on The Local Roads	KZ	2	2P+0C	Z	PV
23Y2BP	Security Class Zuzana Kosová	KZ	2	2P+0C	Z	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
18Y2D2	Dynamics of Transport Routes and Vehicles 2	KZ	2	2+0	L	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
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 Monkova	KZ	2	2P+0C	Z	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 Śmidochová	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
17Y2MM	Mobility of Small Towns	KZ	2	2+0	L	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
17Y2NU	Cost and Benefits of Transport Systems	KZ	2	2+0	L	PV
23Y2NE	Design of Electronic Equipments	KZ	2	2+0	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
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
17Y2PR	Carriage Processes	KZ	2	2+0	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
17Y2RS	Regional Transport - Mobility of Small Towns	KZ	2	2+0	Z	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
17Y2SG	Systematic Creating of Railway Timetables	KZ	2	2+0	Z	PV
17Y2SK	Urban and Regional Rail Transport System	KZ	2	2P+0C	L	PV
15Y2TS	Technician and Contemporary Society Eva Rezlerová, Jan Feit	KZ	2	2P+0C	L	PV
17Y2TP	Technological Prognoses in Transportation and Telecommunication	KZ	2	2+0	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
23Y2VS	Negotiation and Cooperation	KZ	2	2+0	Z	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 14/15 Name=PVP nav.prez.(DS,ID,LO) 14/15

23Y2AE

Acoustics and Electroacoustics in Transportation Basic acoustic quantities, properties of acoustic signals. Basic equations in acoustics, method of equivalent circuits. Acoustic impedance, damping. Acoustic actuators, loudspeakers. Acoustic sensors, microphones. Fundamentals of acoustic signal processing. Acoustics of closed spaces. Fundamentals of acoustics in solids. Acoustic problems in transport and their solutions.

2

12Y2BM	Safety on The Local Roads	KZ	2
	cidents rates, social looses. Collision points, diagrams. Tools and methods for safer road transportation. Crossroads from the po		
	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	I	I
	s, cyber-infrastructure protection, transportation infrastructure security, and information assurance, among others.	st and omminal so	olal fictwork
		KZ	
14Y2C1	CATIA I	I	2
	g with CATIA, making basic parts and bodies. Making 2D sketches, geometric stucture, parametric linking, making adaptive m	iodeis ironi 2D sk	etches. Import
	rts and bodies. Making assemble and visualization.		_
14Y2C2	CATIA II	KZ	2
	rse. Modeling compound bodies. Possibility of enumeration, comunications with other systems. Surface x solid bodies. Kinema	atic mechanism. F	Project making
and project cooperation			,
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, definit	tion of sensitivity f	functions and
matrices and their usat	ility in system design.		
15Y2DN	Transportation Psychology in German Speaking Countries	KZ	2
Introduction into broade	er view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, g	etting of driving li	cence, children
in traffic, traffic acciden	t, traffic psychology in the internet etc.)		
18Y2D2	Dynamics of Transport Routes and Vehicles 2	KZ	2
	e vehicle and transport routes and their influence on the stress and strain components of the vehicle structure or behavior of	I .	
	transport routes. Vibration of systems with a finite number of degrees of freedom. Methods of constant stiffness and constant		
	Criteria for the admissibility of oscillation.	00pa00. 2)	
17Y2FM		KZ	2
	Financing in Urban Mass Transportation	l .	
-	opment in Prague and other cities in the world. Building and operation of public tram, bus, and trolleybus networks. Underground the company of the company	-	
	opment in small towns. Particularities of investment and operation financing of individual UMT types. Historic and present mo	dels of UIVI I finan	icing. Iransport
	ssengers. Tourism & DMT. UMT typology & Diplomant financing.	1	1
11Y2FX	Functions of Complex Variable	KZ	2
Derivation of complex f	unction, holomorphic function, complex exponential series, integration, Cauchy theorem. Taylor series, Laurent series of com	plex variable func	tion. Basics of
Laplace and Z-transfor	mation.		
23Y2FB	Physics for Security Branches	KZ	2
Grounds of physics of s	substances and phenomena at extreme conditions. Grounds of rheology. Physics of Earth's interior. Geophysics. Physics of a	tmosphere. Applic	cations in
dengineering branches	directed to safety.		
18Y2FZ	Physical foundation of materials' properties	KZ	2
	e defects influence on properties of materials, stiffness, plasticity, strength, fracture, fatigue, creep, corrosion, effects of enviro	1	_
behavior are the main of		ommont and loadin	ng on matorialo
15Y2HS	Road Transport History	KZ	2
			_
	in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of ro		
	Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of	road travelling in	modern penod.
	tions, bridges and traffic control, development of road signs.		_
16Y2HP	Vehicle Hygiene	KZ	2
Emissions and ergonor	ny of vehicles and the influence on man and nature. National and international law related to the hygiene. Noise and vibration	s - sources, creat	ion, propagation,
physical values, ways o	f measuring, prevention, elimination. Exhausts - creation, measurement, reduction, non-regular fuels and drives. Ergonomy - si	tting, standing, co	ntrol, operational
reach. Condition - heat	ing, ventilation, air-conditioning, filtration, tiredom.		
12Y2IS	Urban Networks	KZ	2
The importance and the	e e position of UN as public and technical infrastructure / utillities, metodology of the UN master planning, of UN design, UN co	ordination, UN ins	stallation and UN
operation (basic techni	cal standards of UN, trenchless technologies for UN).		
14Y2JM	One-Chip Controllers	KZ	2
— •	chitecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed w	I .	I
		KZ	2
15Y2JH	Job Hunting in English	1	_
-	practical guide to applying for a job in English. The interview process is mapped out, with the course including skills practise in the following stills practice in the following skills practice in	=	or this process,
	bb-hunting in English. Students will also be introduced to the English vocabulary and phraseology necessary for a successful	1	
17Y2KI	Capital Investment in Transportation and Telecommunications	KZ	2
Financial market, inves	tment desicion making - long term goals and investment strategies, long temr financing.		
16Y2KV	Car Body Design	KZ	2
Personal cars body, hig	h-load car body, bus car body, and motorcycle as a construction set. Principles of design, production, testing and operation. I	Materials used for	car body
construction. Active and	d passive safety parts. Ergonomics, HMI, view out of the vehicle, operational extent, view behind the car. Conditioning tools, s	signaling function.	Aerodynamics
of the car body. Design	and artistic design principles. Practical training.		
12Y2KS	Rail Transport in Settlements and Regions	KZ	2
_	elopment of railway infrastructure in Czech Republic. Arrangement of railway networks and junctions. Suburban railway service	I	I
	ems. Network configuration and operation of tram systems. Special thematic lectures (rail transport in selected countries / reg		
12Y2KE	Landscape Ecology	KZ	2
	Lanuscape Ecology ndscape - definition, types, evolution. Landscape systems. Anthropogenic impacts on landscape. Methods using for evaluatin	I .	I .
		y iai iuscape. Fido	nai geometiy
	ations in landscape ecology. Landscape planning.	1/7	
21Y2LS	Air Traffic Services	KZ	2
	zech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, A	APP a ACC contro	DI. History of ATS
	vakia. ATS - Model of financing. Training Systém of Air Traffic Controllers. Future development of ATS.	1	1
11Y2LG	Logics of Engineer's Judgement	KZ	2
Logical structure of eng	ineer's judgement, its propositional and predicative logical base. Solutions of logical tasks through the methods of truthfulness	ss and semantic a	nalysis charts.
Venn's diagram method	d. Logical basis for network design for the solution of technical tasks.		
15Y2MS	Sociology for Managers	KZ	2
	to a corporation. Corporation and its organization. Corporation and its running - human role and communication. Corporation,	I	I .
	in free market economy. Corporate directorship, work groups, adaptation, strife, different roles and positions in corporation.		

21Y2MK Marketing of Air Transport	KZ	2
The content of the course "Marketing in air transport" is the management of activities and processes using available marketing tools are processed to the processes of the processes are processed to the processes of the process		
and implementation of sales of goods and services in the aviation industry. In addition to the theoretical foundations of marketing, the fector and product analysis, creation of marketing strategies and planning.	es present systems of mar	ket, competition
12Y2MH Measurement and Modeling of Traffic Noise	KZ	2
Theoretical introduction to noise from traffic. Noise from rail transport. Noise from road traffic. Measurement and calculation of noise from rail	ail traffic. Measurement and	d calculation of
noise from road traffic. Modelling of traffic noise in the CADNA A.		
18Y2MP Finite Element Method And Its Application	KZ	2
Basic mathematical formulation of the Finite Element Method. Direct Stiffness Method used in structural mechanics. Evaluation of stiffness variational principles. Element formulation (bar and beam elements, CST, LST, quadrilateral, tetrahedral and brick elements). Natural coordi		•
isoparametric representation. Numerical integration. Introduction to dynamics. FEM programming.		
16Y2MK Quality Methods for Vehicles	KZ	2
Quality management methods list, customer data acquisition and analysis of customer requirements, QFD, DFM, DFA, DFS. FMEA (Failure	mode effect analysis). Elei	ments of parallel
(team) design. 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	1 1	
modal split, traffic distribution to road network). Shock wave in traffic flow. Service levels and their traffic volumes. Acceleration noise.		,
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 operat		
adaptation of the infrastructure model and modification to the infrastructure to allow the implementation of the proposed operational concept of sensitivity of the operational concept to delays.	t. Stability tests and evalua	tions. Evaluation
17Y2MM Mobility of Small Towns	KZ	2
Basic terms, networks of railway and bus lines, alternative forms of regional transport, influence in regional transport in vicinity of big cities, s	1 1	
in regions, activities related to regional transport, passenger transport safety in regions.		
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 ski necessary for successful figuring out. Both simple tasks, where students create own model themselves (e.g. in Matlab), and more complicate	• • • • • • • • • • • • • • • • • • • •	•
tools will be applied.	ed problems where profess	sional developed
12Y2MZ Modernization of Railway Lines and Stations	KZ	2
Line speed increasing. AGC and AGTC Agreement. AGC and AGTC railway network. Principles of modernization (conceptual papers, definition)	ons of basic concepts, indiv	idual principles).
Track geometrical characteristics on modernized railway lines. Superstructure and substructure on upgraded lines. Designing of railway states and an electrical characteristics of the transition of the transitions of the transition of the transitions of the tra	tions. Bridges and tunnels.	Development
and realization of projects. Technical description of the tranzit corridors. 17Y2NU Cost and Benefits of Transport Systems	KZ	2
17Y2NU Cost and Benefits of Transport Systems Transport systems and their history, externalities and their internalization, public goods, transport funding, assessment of transport constructions.	1 1	_
MCA, CA, transport taxation, influence of transport constructions on public budgets, relation of transport and economic growth, importance		
23Y2NE Design of Electronic Equipments	KZ	2
Characteristics and realization of semiconductor electronic components, basic electronic devices division. Sources, input and output elements in the components of the compone	•	
circuits - amplifiers, data converters. Analog electronic systems, analog computing. Switching elements, logic circuits, FPGA implementation microcontrollers. Design (ORCAD), construction of electronic devices.	n. Single chip microcomput	ers and
14Y2OP Object Oriented Programming in Transport	KZ	2
Class, object, encapsulation, inheritance, polymorphism, templates, retyping, stream, exceptions, repository, collections, virtual methods are		
from microscopic simulation system, discrete event simulation, celular automata simulation and virtual life area.		
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. Ha members. Fundamental principles of health protection and support in selected EU countries.	rmonisation of legislation v	vith other EU
15Y2OF Specialised French for Transportation and Telecommunications	KZ	2
Basic transportation (public transport, railway, air, road and ship transport) and telecommunications terminology. Special focus on independ	1 1	
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 of bitmap and vector 2D graphics, 3D virtual scenes and algorithms used for their computerized processing of bitmap and vector 2D graphics, 3D virtual scenes and algorithms used for their computerized processing of bitmap and vector 2D graphics, 3D virtual scenes and algorithms used for their computerized processing of bitmap and vector 2D graphics, 3D virtual scenes and algorithms used for their computerized processing of bitmap and vector 2D graphics, 3D virtual scenes and algorithms used for their computerized processing of bitmap and vector 2D graphics, 3D virtual scenes and algorithms used for their computerized processing of the		with professional
and freeware tools for creation and processing of 2D, 3D and interactive graphics, and basics of programming language VRML and graphic		
22Y2PS Traffic Accidents Computer Simulation and Analysis Vehicle dynamics simulation, multi body systems and vehicle active safety systems, vehicle slipping, external influence on virtual model, cra	KZ ash tests evaluation, single	2 -track vehicle
vehicle passangers, pedestrian, traffic accident simulation and analysis.	zon tooto ovaluation, omgio	traok vornolo,
15Y2PT Food in Transportation	KZ	2
The nutrition policy. Interaction transportation and foodstuffs. The health risks. Hygienic safeguard. The practical examples from the Czech F	Republic and from the worl	d. The issues of
dining cars, work trains and other railroad equipment. Legislation.	1/7	
15Y2PS Practical Spanish for Transportation, Management and Business Development of communication skills, training of correct written expression of formal character, basic technical vocabulary, cultural specifics	s of the Spanish speaking	2 countries
Terminology of transport and commerce, business letter.	y or the oparion opeaking t	,
21Y2PP Law and Operation in Air Transport	KZ	2
Development of aviation law. International conventions on civil aviation. International organisations and including of the Czech Republic in the		
aviation. Execution of state administration and state supervision in matters of civil aviation, in accordance with Act No. 49/1997 Col. Facilitations and cargo. The safe transport of dangerous goods.	tion. Responsibilities of air	carriers for
passengers, luggage and cargo. The safe transport of dangerous goods. 20Y2PR Prediction of time series	KZ	2
Introduction to time series prediction, meaning of prediction, basics of quantitative prediction. Methods for predictive quality evaluation, described and the series predictive quality evaluation, described and the series prediction are series prediction.		
prediction, prediction for general formula of loss function. Calculation and programming environment R. Regression models, basics of linear	•	
regression, statistical tests of linear dependence, selection of input variables.		
14Y2PI Process Information Systems in Transportation	KZ KZ	2
Introduction and detailed usage of transport information systems, e.g. EFC, ePurse and transport check-in systems for public transport with SOA (Service Oriented Architecture). Inforantion systems implementation and operations description in the Czech Republic (technical and		-

14Y2PJ OOP philosophy and ba			
OOP philosophy and ba	C++ Programming Language	KZ	2
	sics of C++ programming language. Class, object, constructor, destructor, inheritance, abstract class, virtual methods, exceptic ata type implementation in C++.	ons, streams, meth	nod and operator
14Y2PH	CAD Interface Programming	KZ	2
	erface programming techniques with the help of LIST and VBA programming languages. Possibilities of proper objects (commacAD systems. Programming of cooperation with other applications (databases, spread-sheets).	nands), dialogues	interfaces, and
11Y2PM	Programming in MATLAB	KZ	2
	of modelling and simulation, description of Matlab environment and its settings, optimization and program code debugging, of		
21Y2PL	Operational Aspects of Aerodromes	KZ	2
Operational aspects of	aerodromes. Location of aerodrome and orientation of runways. Requirements for apron. Capacity of airports runways and te		
	units. Protection against unlawful interference. Local transport connection. Environmental protection.	1/7	
17Y2PR Carrier's commercial li	Carriage Processes	KZ rriage Contract on	2 freight carriage
Forwarding contract. Li	ability and rights based on carrying contract. Contractual carrying conditions. Guarantee of carrying contract by more operato OTERMS). Tariff and calculation of prices.	-	
17Y2PS	Case Studies in Transportation	KZ	2
•	ssions on the topics - the impact of transport on the environment and the economy, energy, construction of transport infrastru		
•	urrent and the real issue, which solutions will have to think of each other. Each of them will be represent another role (public groups, residents, etc.).	authorities, invest	ors, carrier
15Y2PU	Publications and Their Creation	KZ	2
-	potnotes and references. Exploration of facts. Quotations. Formal document layout. Working with information databases. Typo		. Typographic
	LaTeX. Practical creation of simple scientific documents.		
12Y2RD	Realization of Transport Buildings es. Project Documentation Types. Building Code. Land Permission and Building Permission Process. Building Process. Project	KZ	2 ct Management
17Y2RS	Regional Transport - Mobility of Small Towns	KZ	2
_	of railway and bus lines, alternative forms of regional transport, influence in regional transport in vicinity of big cities, solutions		_
n regions, activities re	ated to regional transport, passenger transport safety in regions.		
17Y2RZ	Control of Transport Processes	KZ	2
Theoretical bases, tran elematics.	sport system, decomposition, factors influencing control, quality diagnosis, methods of control, systems for decision making s	support, risk of de	cision making,
15Y2SP	Seminar on Political Philosophy	KZ	2
	hical texts, view of society, state and their system of government.	112	_
17Y2SJ	Network Timetabling on the Railway	KZ	2
· · · · · · · · · · · · · · · · · · ·	pacity allocation, technological intervals in railway operation. Rules and regulations of train paths, running times, time adds a	* *	-
	les of train-diagramm creating. Timetables for more service-levels on the line. Construction slot conflicts between passengernes, timetables for lines under construction.	and freight transp	ort. Network line
16Y2ST	Special Technologies in Transport and Telecommunications	KZ	2
	I technologies, electric arc and its applications, plasma technologies, dipping, beam technologies, electron beams technology		_
	r technologies, soldering, gluing, ultrasound, diffusion, friction and explosion technologies, micro stoves, gas.		
18Y2SD	Reliability and Diagnostics, Experimental Methods In theoretical background and practical experience in the field of reliability of constructions, implementation of diagnostic proce	KZ	2
	on of residual life of structures. For this purpose, non-destructive methods of experimental mechanics (e.g. strain-gauge mea	edures for the dete	cuon oi matena
		surement, photoe	lasticimetry) and
optical methods, includ	ing electron microscopy, will be used.	surement, photoe	lasticimetry) and
-		surement, photoe	lasticimetry) and
15Y2SR Basic skills of oral and	ing electron microscopy, will be used. Stylistics and Rhetorics written expression as a means of human communication. Basic information about speech, articulation, oral and written langu	KZ lage. Teaching to s	2 speak well-vocal
15Y2SR Basic skills of oral and organs, voice training. I	ing electron microscopy, will be used. Stylistics and Rhetorics written expression as a means of human communication. Basic information about speech, articulation, oral and written languanguage semantics, language syntactic and the pragmatic aspect. Creative thought and its oral and written expression. Practic	KZ lage. Teaching to see - cultivating the	2 speak well-vocal skills of speech
15Y2SR Basic skills of oral and organs, voice training. I 17Y2SG	Stylistics and Rhetorics written expression as a means of human communication. Basic information about speech, articulation, oral and written language semantics, language syntactic and the pragmatic aspect. Creative thought and its oral and written expression. Practice Systematic Creating of Railway Timetables	KZ lage. Teaching to so	2 speak well-vocal skills of speech 2
15Y2SR Basic skills of oral and organs, voice training. I 17Y2SG Timetable samples. Ca	ing electron microscopy, will be used. Stylistics and Rhetorics written expression as a means of human communication. Basic information about speech, articulation, oral and written languanguage semantics, language syntactic and the pragmatic aspect. Creative thought and its oral and written expression. Practic	KZ lage. Teaching to so	2 speak well-vocal skills of speech 2
15Y2SR Basic skills of oral and organs, voice training. In 17Y2SG Timetable samples. Cacrew circulation planning. In 17Y2SK	Stylistics and Rhetorics written expression as a means of human communication. Basic information about speech, articulation, oral and written language semantics, language syntactic and the pragmatic aspect. Creative thought and its oral and written expression. Practic Systematic Creating of Railway Timetables pacity allocation, technological intervals in railway operation. Rules and regulations of train paths, running times, time adds at g. Rules of train-diagramm creating. Train-diagramm construction in case of more service-levels on the line. Urban and Regional Rail Transport System	KZ lage. Teaching to some ce - cultivating the KZ nd supplements. F	2 speak well-vocal skills of speech 2 Rolling stock and
15Y2SR Basic skills of oral and organs, voice training. In 17Y2SG Firmetable samples. Cacrew circulation planning 17Y2SK Factors influencing train	Stylistics and Rhetorics written expression as a means of human communication. Basic information about speech, articulation, oral and written langu anguage semantics, language syntactic and the pragmatic aspect. Creative thought and its oral and written expression. Practic Systematic Creating of Railway Timetables pacity allocation, technological intervals in railway operation. Rules and regulations of train paths, running times, time adds at g. Rules of train-diagramm creating. Train-diagramm construction in case of more service-levels on the line. Urban and Regional Rail Transport System sport demand, modal-split, traffic flows distribution on public transit network. Line network optimization and configuration. Times and the stransit network optimization and configuration.	KZ lage. Teaching to some ce - cultivating the KZ Ind supplements. F	2 speak well-vocal skills of speech 2 Rolling stock and
15Y2SR Basic skills of oral and organs, voice training. In 17Y2SG Firmetable samples. Cacrew circulation planning 17Y2SK Factors influencing trainaccenting integrated per serious significance of the	Stylistics and Rhetorics written expression as a means of human communication. Basic information about speech, articulation, oral and written langu anguage semantics, language syntactic and the pragmatic aspect. Creative thought and its oral and written expression. Practic Systematic Creating of Railway Timetables pacity allocation, technological intervals in railway operation. Rules and regulations of train paths, running times, time adds at g. Rules of train-diagramm creating. Train-diagramm construction in case of more service-levels on the line. Urban and Regional Rail Transport System sport demand, modal-split, traffic flows distribution on public transit network. Line network optimization and configuration. Time riodic timetable. Rolling stock circulation, staff and crew services optimization and their order to rosters. Framework legislation,	KZ lage. Teaching to some ce - cultivating the KZ Ind supplements. F	2 speak well-vocal skills of speech 2 Rolling stock and
15Y2SR Basic skills of oral and organs, voice training. In 17Y2SG Timetable samples. Cacrew circulation planning 17Y2SK Factors influencing trainaccenting integrated peof public transport. Mai	Stylistics and Rhetorics written expression as a means of human communication. Basic information about speech, articulation, oral and written langu anguage semantics, language syntactic and the pragmatic aspect. Creative thought and its oral and written expression. Practic Systematic Creating of Railway Timetables pacity allocation, technological intervals in railway operation. Rules and regulations of train paths, running times, time adds at g. Rules of train-diagramm creating. Train-diagramm construction in case of more service-levels on the line. Urban and Regional Rail Transport System sport demand, modal-split, traffic flows distribution on public transit network. Line network optimization and configuration. Time riodic timetable. Rolling stock circulation, staff and crew services optimization and their order to rosters. Framework legislation, keting.	KZ lage. Teaching to some ce - cultivating the KZ Ind supplements. F	2 speak well-vocal skills of speech 2 Rolling stock and
15Y2SR Basic skills of oral and organs, voice training. In 17Y2SG Timetable samples. Cacrew circulation planning 17Y2SK Factors influencing transaccenting integrated per public transport. Main 15Y2TS Why to take off a hat in	Stylistics and Rhetorics written expression as a means of human communication. Basic information about speech, articulation, oral and written langu anguage semantics, language syntactic and the pragmatic aspect. Creative thought and its oral and written expression. Practic Systematic Creating of Railway Timetables acity allocation, technological intervals in railway operation. Rules and regulations of train paths, running times, time adds as g. Rules of train-diagramm creating. Train-diagramm construction in case of more service-levels on the line. Urban and Regional Rail Transport System sport demand, modal-split, traffic flows distribution on public transit network. Line network optimization and configuration. Time riodic timetable. Rolling stock circulation, staff and crew services optimization and their order to rosters. Framework legislation, keting. Technician and Contemporary Society a room and open a door for a lady, are there simple solutions, science vs belief, do we need to know or is it enough to turn or	KZ lage. Teaching to some ce - cultivating the KZ Ind supplements. F KZ Interpretable designing non-barrier effects	2 speak well-voca skills of speech 2 Rolling stock and 2 and evaluation s and preference
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15Y2SR Basic skills of oral and organs, voice training. In 17Y2SG Firmetable samples. Castrew circulation planning 17Y2SK Factors influencing transport in public transport. Main 15Y2TS Why to take off a hat in internet and in newspain 17Y2TP	Stylistics and Rhetorics written expression as a means of human communication. Basic information about speech, articulation, oral and written languanguage semantics, language syntactic and the pragmatic aspect. Creative thought and its oral and written expression. Practic Systematic Creating of Railway Timetables acity allocation, technological intervals in railway operation. Rules and regulations of train paths, running times, time adds at g. Rules of train-diagramm creating. Train-diagramm construction in case of more service-levels on the line. Urban and Regional Rail Transport System sport demand, modal-split, traffic flows distribution on public transit network. Line network optimization and configuration. Time riodic timetable. Rolling stock circulation, staff and crew services optimization and their order to rosters. Framework legislation, keting. Technician and Contemporary Society a room and open a door for a lady, are there simple solutions, science vs belief, do we need to know or is it enough to turn or opers, what are the sights for, interest in public affairs - a hangover from the past? Technological Prognoses in Transportation and Telecommunication	KZ lage. Teaching to so ce - cultivating the KZ Ind supplements. F KZ Inetable designing non-barrier effects KZ In a PC, it must be	2 speak well-voca skills of speech 2 Rolling stock and 2 and evaluation s and preference
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12Y2UD	Sustainable Transportation	KZ	2
Sustainable develo	pment, definition, history, legal framework. Sustainable development indicators. Sustainable transportation, definition, histo	ory, legal framework. Prac	ctical application
of sustainable deve	elopment theory, case study.		
14Y2UI	Artificial Intelligence	KZ	2
History of artificial	intelligence, knowledge, its representation including frames, state space search, constraints, genetic algorithms, machine le	earning.	
20Y2UA	Artificial Neural Networks, Realization and Applications	KZ	2
History of neural ne	etworks. Basic principles. Comparing the structure of a natural and an artificial neuron. Neural classificators, predictors, comp	presors, expanders and o	other specialised
functional blocs an	d systems. Modelling of neurons. Grossberg's equations. Learning principles. Leyered and Hopfield's nets.		
18Y2UB	Accident Biomechanics and Safety	KZ	2
Anatomy of man. M	lethods of Medical Diagnostics - RTG, CT, MRI, US. Dynamics of traumatic events. Factors influencing the severity of an acc	cident and the extent of a	a traffic accident
Injuries in road traf	fic. Pedestrian injuries. Injury in railway and air traffic accidents. Analysis of biomechanical events in accidents and their con	mputational modeling. P	rinciples of
treatment and reha	abilitation. Protective elements and safety measures in transport.		
23Y2VZ	Leadership and Human Resource Development	KZ	2
	study of human resources, human resources management, corporate goals, strategies, cultural and ethical aspects. Team	-	cation in teams,
strategy and plann	ing in human resources, ethics and corporate culture, cross-cultural differences. The labor code. Introduction into protocols.		
21Y2VA	Selected Chapters of Aerodynamics	KZ	2
Physical properties	of real gases, atmosphere, aeronautical applications of external and internal aerodynamics, compressible internal flow, inlet	nozzles and drive nozzle	es, compressible
	rcritical wings and profiles, vertical and oblique shock wave, energy losses, aeronautical aerodynamic profiles of wings, pro	opellers, blades gratings,	lift, drag, polar,
viscosity, laminar a	nd turbulent flow, boundary layer.		
23Y2VS	Negotiation and Cooperation	KZ	2
	les. Negotiation sense, base, essence. Business and crisis negotiation differences. The "Win-Win" principle. Specification. C	redibility. Negotiation beh	navior principles
Negotiation and co	mmand. Team variability. Formal and informal team roles.		
18Y2VC	Computational Mechanics in Transportation	KZ	2
•	work and variational principles in FEM. Bar shaped, planar and three - dimensional structures in FEM. FEM in statics and in		ational systems.
	ic and viscoelastic material. FEM in problems of biomechanics. Numerical analysis of structural parts with programme ANS		
23Y2VR	Cope with Risks in Engineering Branches	KZ	2
Types of engineering	ng branches directed to risks, procedures used in risk engineering, ensuring the secured systems, ensuring the safe system	is, ensuring the safe syst	ems of systems
12Y2VT	High Speed Railways	KZ	2
•	SR) transport characteristics and position in transportation system. HSR vehicles types and characteristics and control-comn		•
	n-adhesion HSR systems. City traffic service by HSR. HSR operating points. HSR worldwide network. HSR routing and traf	fic conception. Specifics	of HSR track
	eometrical characteristics.		
12Y2ZK	Traffic Calming	KZ	2
•	calming. Solution of road network organization. Urban road layouts. Psychological and physical obstacles (measures of tra	iffic calming) and their co	ombinations.
Taractica and the same and an arrangement	asures in crossroads. Pedestrian zones. Residential streets and zones.		
	Intelligence Means and Methods	l KZ	2
23Y2ZM		1	
23Y2ZM History and the pre	sent of intelligence services and their role in the modern world. How intelligence services handle with information. Methods an	•	
23Y2ZM History and the pre information. Means		•	

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+10B	Z	J
15J2l1	Language - Italian 1 Eva Rezlerová, Irena Veselková	Z	2	0P+2C+10B	Z	J
15J2N1	Language - German 1 Eva Rezlerová, Martina Navrátilová, Jana Štikarová	Z	2	0P+2C+10B	Z	J
15J2R1	Language - Russian 1 Eva Rezlerová, Marie Michlová	Z	2	0P+2C+10B	Z	J
15J2S1	Language - Spanish 1 Eva Rezlerová, Nina Hricsina Puškinová	Z	2	0P+2C+10B	Z	J
15JBF2	Language - French 2 Eva Rezlerová, Irena Veselková	Z	2	0P+2C+10B	L	J
15JBI2	Language - Italian 2 Eva Rezlerová	Z	2	0P+2C+10B	L	J
15JBN2	Language - German 2 Eva Rezlerová, Martina Navrátilová, Jana Štikarová	Z	2	0P+2C+10B	L	J

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

Characteristics of the courses of this group of Study Plan: Code=JZ-N-14/15 Name=Jazyk nav.1.-4.sem. od 14/15 (pro obory v N3710) Language - French 1 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management. 15J2I1 Language - Italian 1 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management Language - German 1 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management. 15J2R1 Language - Russian 1 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management. Language - Spanish 1 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management. 15JBF2 Language - French 2 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management. 15JBI2 Language - Italian 2 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 15JBN2 Language - German 2 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. 15JBR2 Language - Russian 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 15JBS2 Language - Spanish 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 15JBF3 Language - French 3 Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation. 15JBI3 Language - Italian 3 Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge

and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its

features. Practice of oral and written presentation.

I5JBN3	Language - German 3	Z	2
Frammar and stylisti	cs. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement	ı of language struc	ture knowledge
	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo		
eatures. Practice of	oral and written presentation.	-	•
I5JBR3	Language - Russian 3	Z	2
rammar and stylisti	cs. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement	ı of language struc	ture knowledge
nd perceptive and c	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	rk with (profession	onal) text and its
eatures. Practice of	oral and written presentation.		
5JBS3	Language - Spanish 3	Z	2
rammar and stylisti	cs. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement	of language struc	ture knowledge
nd perceptive and c	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	rk with (profession	onal) text and its
atures. Practice of	oral and written presentation.		
5JBF4	Language - French 4	ZK	2
rammar and stylisti	cs. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of	of language struc	ture knowledge
•	ics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo		
nd perceptive and c			
nd perceptive and catures. Practice of	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo oral and written presentation.		
nd perceptive and catures. Practice of conditions	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	rk with (profession	onal) text and its
nd perceptive and c eatures. Practice of c 5JBI4 frammar and stylisti	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo oral and written presentation. Language - Italian 4	rk with (profession ZK of language structure)	onal) text and its
nd perceptive and centures. Practice of continuous 5JBI4 strammar and stylisting perceptive and continuous stylisting styli	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo oral and written presentation. Language - Italian 4 cs. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of	rk with (profession ZK of language structure)	onal) text and its
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nd perceptive and c atures. Practice of c 5JBI4 rammar and stylistind perceptive and c atures. Practice of c 5JBN4	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo oral and written presentation. Language - Italian 4 ics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	ZK of language structive with (profession	ponal) text and its 2 cture knowledge ponal) text and its
nd perceptive and control particles of 6 statures. Practice of 6 statures. Practice of 6 statures and control perceptive and control perc	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo oral and written presentation. Language - Italian 4 cs. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo oral and written presentation. Language - German 4	ZK of language structive with (profession of language structive langua	2 cture knowledge
nd perceptive and contactures. Practice of contactures. Practice of contactures and stylisting perceptive and contactures. Practice of contactures. Practice of contactures and stylisting perceptive and contactures and contactures are contactured.	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo oral and written presentation. Language - Italian 4 cs. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo oral and written presentation. Language - German 4 cs. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of the language level and study focus at the Faculty.	ZK of language structive with (profession of language structive langua	2 cture knowledge
nd perceptive and contactures. Practice of contactures and stylistical perceptive and contactures. Practice of contactures. Practice of contactures.	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo oral and written presentation. Language - Italian 4 cs. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo oral and written presentation. Language - German 4 cs. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo oral and written presentation.	ZK of language structive with (profession of language structive langua	2 cture knowledge
nd perceptive and catures. Practice of catures.	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo oral and written presentation. Language - Italian 4 cs. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo oral and written presentation. Language - German 4 cs. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	rk with (profession of language structure of	2 cture knowledge onal) text and its 2 cture knowledge cture knowledge cture knowledge onal) text and its
nd perceptive and continues. Practice of continues.	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo oral and written presentation. Language - Italian 4 cs. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo oral and written presentation. Language - German 4 cs. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo oral and written presentation. Language - Russian 4	ZK of language struction ZK of language struction ZK of language struction ZK of language struction rk with (profession rk with (profession ZK of language struction	2 cture knowledge chal) text and its 2 cture knowledge chal) text and its 2 cture knowledge chal) text and its
nd perceptive and catures. Practice of of 5JBI4 rammar and stylisting perceptive and catures. Practice of 65JBN4 rammar and stylisting perceptive and catures. Practice of 65JBR4 rammar and stylisting perceptive and catures. Practice of 65JBR4 rammar and stylisting perceptive and catures.	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo oral and written presentation. Language - Italian 4 cs. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo oral and written presentation. Language - German 4 cs. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo oral and written presentation. Language - Russian 4 cs. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of conversation of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of conversation of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of conversation of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of conversation of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of conversation of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of conversation of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of conversation of conversation and professional topics based on the language level and study focus at the Faculty.	ZK of language struction ZK of language struction ZK of language struction ZK of language struction rk with (profession rk with (profession ZK of language struction	2 cture knowledge chal) text and its 2 cture knowledge chal) text and its 2 cture knowledge chal) text and its
nd perceptive and catures. Practice of catures.	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo oral and written presentation. Language - Italian 4 cs. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo oral and written presentation. Language - German 4 cs. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo oral and written presentation. Language - Russian 4 cs. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo oral and written presentation.	ZK of language struction ZK of language struction ZK of language struction ZK of language struction rk with (profession rk with (profession ZK of language struction	2 cture knowledge chal) text and its 2 cture knowledge chal) text and its 2 cture knowledge chal) text and its
and perceptive and contactures. Practice of contactures.	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo oral and written presentation. Language - Italian 4 cs. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo oral and written presentation. Language - German 4 cs. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo oral and written presentation. Language - Russian 4 cs. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	zK of language structure ZK of language structure ZK of language structure rk with (profession ZK of language structure rk with (profession ZK of language structure rk with (profession ZK of language structure zK	2 cture knowledge chal) text and it: 2
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List of courses of this pass:

Code	Name of the course	Completion	Credits
11STS	Stochastic Systems	Z,ZK	4
The subject deals	with the problems of mathematical modelling of dynamical systems, estimation od these models and their utilization for prediction.	The results are illu	strated on
practical trans	sportation tasks. Mathematical theory roots from probability and mathematical statistics and they use the methods of the Bayesian	probabilistic appro	ach.
11TER	Game Theory and Optimal Decision-Making	ZK	2
Decision-making the	ory, utility theory. Explicit form games, backward induction. Normal form games. Antagonistic conflict, matrix games. Repeated gan	nes, evolutionary g	ame theory.
Cooperative games	without transferable payoffs. Cooperative games with transferable payoffs (imputation, core, Shapley value, nucleolus). Application	ns of game theory a	above all in
	economics and transportation.		
11THRO	Queuing Theory	ZK	2
Discrete event proces	ss, definition, random distribution, and probability. Basic processes, process of revitalisation. Markov process, Markov models, Kenc	lall classification, m	iodel M/M/1,
models	M/M/n. Non-markovian models, model M/C/n, models G/G/n. Models with continuous flow. Service net, examples of Petri net. Con	nputer 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
Derivation of comple	ex function, holomorphic function, complex exponential series, integration, Cauchy theorem. Taylor series, Laurent series of compl	ex variable function	n. Basics of
	Laplace and Z-transformation.		
11Y2LG	Logics of Engineer's Judgement	KZ	2
Logical structure of	engineer's judgement, its propositional and predicative logical base. Solutions of logical tasks through the methods of truthfulness	and semantic anal	ysis charts.
	Venn's diagram method. Logical basis for network design for the solution of technical tasks.		
11Y2PM	Programming in MATLAB	KZ	2
To explain the princi	iple of modelling and simulation, description of Matlab environment and its settings, optimization and program code debugging, da	ta fitting and desigi	ning GUI in
	Matlab.		
12DZP	Transport and Environment	Z	2
This course aims the	impact of transport on environment. The accent is put mainly on noise and vibration, emission, barrier effect and energy demands. parcel of this course.	The noise measur	y is part and
12XN1	Master Project 1	Z	2
12XN2	Master Project 2	7	2
IZAINZ	Master Froject 2		

12XN3	Master Project 3	Z	1
12XN4	Master Project 4	Z	8
12XNDP	Master Thesis	KZ	18
	Safety on The Local Roads	KZ	2
12Y2BM	Salety On The Local Roads accidents rates, social looses. Collision points, diagrams. Tools and methods for safer road transportation. Crossroads from the point	1	_
iassilication of roac	right of way. Roundabouts. Pedestrian transport, cyclists. Traffic lights coordination. Transport control and regulation.	of view of salety. F	Sychologic
12Y2IS	Urban Networks	KZ	2
	the position of UN as public and technical infrastructure / utillities, metodology of the UN master planning, of UN design, UN coord	1	_
ne importance and	operation (basic technical standards of UN, trenchless technologies for UN).	mation, on mstand	allon and C
12Y2KE	Landscape Ecology	KZ	2
	Landscape - Cology y. Landscape - definition, types, evolution. Landscape systems. Anthropogenic impacts on landscape. Methods using for evaluating	1	1
Landscape ecolog	and its potential applications in landscape ecology. Landscape planning.	апазсарс. Гтаска	geomeny
12Y2KS	Rail Transport in Settlements and Regions	KZ	2
	development of railway infrastructure in Czech Republic. Arrangement of railway networks and junctions. Suburban railway service	1	1
	ion of metro systems. Network configuration and operation of tram systems. Special thematic lectures (rail transport in selected cou	_	
12Y2MD	Methods of Traffic Regulation and Prediction	KZ	2
	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		
12Y2MH	Measurement and Modeling of Traffic Noise	KZ	2
	tion 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.	1	1
	noise from road traffic. Modelling of traffic noise in the CADNA A.		
12Y2MZ	Modernization of Railway Lines and Stations	KZ	2
	g. AGC and AGTC Agreement. AGC and AGTC railway network. Principles of modernization (conceptual papers, definitions of basic	l .	_
•	characteristics on modernized railway lines. Superstructure and substructure on upgraded lines. Designing of railway stations. Bridg	•	
3	and realization of projects. Technical description of the tranzit corridors.		
12Y2RD	Realization of Transport Buildings	KZ	2
	Types. Project Documentation Types. Building Code. Land Permission and Building Permission Process. Building Process. Project Ec		_
12Y2UD	Sustainable Transportation	KZ	2
	ment, definition, history, legal framework. Sustainable development indicators. Sustainable transportation, definition, history, legal fr	1	_
actamable actorop	of sustainable development theory, case study.	amowork. I radioc	и арриоан
12Y2VT	High Speed Railways	KZ	2
	transport characteristics and position in transportation system. HSR vehicles types and characteristics and control-command and	1	_
	n-adhesion HSR systems. City traffic service by HSR. HSR operating points. HSR worldwide network. HSR routing and traffic conce		-
	construction and geometrical characteristics.	.,	
12Y2ZK	Traffic Calming	KZ	2
	calming. Solution of road network organization. Urban road layouts. Psychological and physical obstacles (measures of traffic caln	1	II.
.,	Traffic calming measures in crossroads. Pedestrian zones. Residential streets and zones.	3,	
14MTSY	Telecommunications Systems Management	KZ	2
	ea of e-communication services and relevant ecommunications networks, conditions and tools to provide optional set of services of	1	ers based
nierarchal architectu	ure of service management system (TMN). Positioning of broadband services, convergence trends leading to NGN. Financial criteri	a and tools as an	integral pa
	of providing service.		
14PPRP	Computer Aided Project Management	KZ	2
What is the project	at? The basic terms a concepts of project management. Life cycle of the project and its phased approach. Analysis and specificatio	n of the assignme	nt, activity
definition, stages	, objectives and measurability. Risk events and risk planning. Project change management during implementation. Preparation of the	ne project outline (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	Master Project 4	Z	8
14XNDP	•	KZ	_
	Master Thesis		18
14Y2C1	CATIA I	KZ	2
-undaments of wor	king with CATIA, making basic parts and bodies. Making 2D sketches, geometric stucture, parametric linking, making adaptive mod	dels from 2D sketo	nes. Impo
	and export of made parts and bodies. Making assemble and visualization.		
14Y2C2	CATIA II	KZ	2
extension of basic	course. Modeling compound bodies. Possibility of enumeration, comunications with other systems. Surface x solid bodies. Kinemati	c mechanism. Pro	ject makin
	and project cooperation. Outputs of projects.		
		l KZ	2
14Y2CS	Sensitivity of Systems	1	
	with defined reliability. The impact of changing parameters and subsystems within a system. System sensitivity computing, definition	1	ictions and
Design of systems	with defined reliability. The impact of changing parameters and subsystems within a system. System sensitivity computing, definition matrices and their usability in system design.	on of sensitivity fur	
Design of systems	with defined reliability. The impact of changing parameters and subsystems within a system. System sensitivity computing, definition matrices and their usability in system design. One-Chip Controllers	on of sensitivity fur	2
Design of systems 14Y2JM One-chip contro	with defined reliability. The impact of changing parameters and subsystems within a system. System sensitivity computing, definition matrices and their usability in system design. One-Chip Controllers Ollers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed	on of sensitivity fur KZ with the aid of AV	2 R chips.
14Y2JM One-chip contro	with defined reliability. The impact of changing parameters and subsystems within a system. System sensitivity computing, definition matrices and their usability in system design. One-Chip Controllers Oliers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed Object Oriented Programming in Transport	KZ with the aid of AVI	2 R chips.
14Y2JM One-chip contro	with defined reliability. The impact of changing parameters and subsystems within a system. System sensitivity computing, definition matrices and their usability in system design. One-Chip Controllers Sillers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed Object Oriented Programming in Transport psulation, inheritance, polymorphism, templates, retyping, stream, exceptions, repository, collections, virtual methods and classes.	KZ with the aid of AVI	2 R chips.
14Y2JM One-chip contro 14Y2OP Class, object, enca	with defined reliability. The impact of changing parameters and subsystems within a system. System sensitivity computing, definition matrices and their usability in system design. One-Chip Controllers Illers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed Object Oriented Programming in Transport psulation, inheritance, polymorphism, templates, retyping, stream, exceptions, repository, collections, virtual methods and classes. from microscopic simulation system, discrete event simulation, celular automata simulation and virtual life area.	KZ with the aid of AVI KZ Problem cases wi	2 R chips. 2 I be chose
14Y2JM One-chip contro 14Y2OP Class, object, enca	with defined reliability. The impact of changing parameters and subsystems within a system. System sensitivity computing, definition matrices and their usability in system design. One-Chip Controllers ollers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed Object Oriented Programming in Transport psulation, inheritance, polymorphism, templates, retyping, stream, exceptions, repository, collections, virtual methods and classes. from microscopic simulation system, discrete event simulation, celular automata simulation and virtual life area. CAD Interface Programming	KZ with the aid of AVI KZ Problem cases wi	2 R chips. 2 I be chose
14Y2JM One-chip contro 14Y2OP Class, object, enca	with defined reliability. The impact of changing parameters and subsystems within a system. System sensitivity computing, definition matrices and their usability in system design. One-Chip Controllers ollers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed Object Oriented Programming in Transport psulation, inheritance, polymorphism, templates, retyping, stream, exceptions, repository, collections, virtual methods and classes. from microscopic simulation system, discrete event simulation, celular automata simulation and virtual life area. CAD Interface Programming interface programming techniques with the help of LIST and VBA programming languages. Possibilities of proper objects (commandation)	KZ with the aid of AVI KZ Problem cases wi	2 R chips. 2 I be chose
14Y2JM One-chip control 14Y2OP Class, object, enca 14Y2PH Attroduction to CAD	with defined reliability. The impact of changing parameters and subsystems within a system. System sensitivity computing, definition matrices and their usability in system design. One-Chip Controllers ollers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed Object Oriented Programming in Transport psulation, inheritance, polymorphism, templates, retyping, stream, exceptions, repository, collections, virtual methods and classes. from microscopic simulation system, discrete event simulation, celular automata simulation and virtual life area. CAD Interface Programming	KZ with the aid of AVI KZ Problem cases wi KZ ds), dialogues, int	2 R chips. 2 I be chose
14Y2JM One-chip control 14Y2OP Class, object, enca 14Y2PH troduction to CAD	with defined reliability. The impact of changing parameters and subsystems within a system. System sensitivity computing, definition matrices and their usability in system design. One-Chip Controllers ollers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed Object Oriented Programming in Transport psulation, inheritance, polymorphism, templates, retyping, stream, exceptions, repository, collections, virtual methods and classes. from microscopic simulation system, discrete event simulation, celular automata simulation and virtual life area. CAD Interface Programming interface programming techniques with the help of LIST and VBA programming languages. Possibilities of proper objects (comman applications creation in CAD systems. Programming of cooperation with other applications (databases, spread-sheets). Process Information Systems in Transportation	KZ with the aid of AVI KZ Problem cases wi KZ ds), dialogues, int	2 R chips. 2 I be chose erfaces, a
14Y2JM One-chip contro 14Y2OP Class, object, enca 14Y2PH introduction to CAD 14Y2PI introduction and de	with defined reliability. The impact of changing parameters and subsystems within a system. System sensitivity computing, definition matrices and their usability in system design. One-Chip Controllers Oliers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed Object Oriented Programming in Transport psulation, inheritance, polymorphism, templates, retyping, stream, exceptions, repository, collections, virtual methods and classes. from microscopic simulation system, discrete event simulation, celular automata simulation and virtual life area. CAD Interface Programming interface programming techniques with the help of LIST and VBA programming languages. Possibilities of proper objects (comman applications creation in CAD systems. Programming of cooperation with other applications (databases, spread-sheets). Process Information Systems in Transportation tailed usage of transport information systems, e.g. EFC, ePurse and transport check-in systems for public transport with focus on a	KZ with the aid of AVI KZ Problem cases wi KZ ds), dialogues, int KZ rchitecture of this	2 R chips. 2 I be chose 2 erfaces, a 2 system ar
14Y2JM One-chip control 14Y2OP Class, object, enca 14Y2PH troduction to CAD 14Y2PI Introduction and de	with defined reliability. The impact of changing parameters and subsystems within a system. System sensitivity computing, definition matrices and their usability in system design. One-Chip Controllers ollers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed Object Oriented Programming in Transport psulation, inheritance, polymorphism, templates, retyping, stream, exceptions, repository, collections, virtual methods and classes. from microscopic simulation system, discrete event simulation, celular automata simulation and virtual life area. CAD Interface Programming interface programming techniques with the help of LIST and VBA programming languages. Possibilities of proper objects (comman applications creation in CAD systems. Programming of cooperation with other applications (databases, spread-sheets). Process Information Systems in Transportation	KZ with the aid of AVI KZ Problem cases wi KZ ds), dialogues, int KZ rchitecture of this	2 R chips. 2 I be chose 2 erfaces, a 2 system ai

14Y2PJ	C++ Programming Language	KZ	2
-	d basics of C++ programming language. Class, object, constructor, destructor, inheritance, abstract class, virtual methods, exceptions, s		I
	overloading, abstract data type implementation in C++.		
14Y2TU	Telecommunications Systems and Multimedia	KZ	2
ew trends in teleco	ommunications namely applied in transport solutions, identification and quantification of telecommunications networks and services perfe	ormance based o	n redunda
	architecture, provissioning of guaranteed service quality, two generations of the handover principles.		_
14Y2UI	Artificial Intelligence	KZ	2
	story of artificial intelligence, knowledge, its representation including frames, state space search, constraints, genetic algorithms, mach		
15J2A1	Language - English 1 resentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work er	Z	2
15J2F1	Language - French 1	7	2
	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, f	∠ reedhack skills si	_
	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tech		
	language of management.	3	
15J2I1	Language - Italian 1	Z	2
Grammatical Struc	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, f	eedback skills, si	ummarisiı
echnical text conte	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tech	nical registers ar	nd their us
45 10114	language of management.		
15J2N1	Language - German 1	Z	2
	ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, f ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tech		
,o.iiiioai text coille	language of management.	modi registers di	ia tricii U
15J2R1	Language - Russian 1	Z	2
	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, f		
	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tech		
	language of management.		
15J2S1	Language - Spanish 1	Z	2
	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, f		
echnical text conte	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tech	nical registers an	nd their u
4 <i>E</i> ID A 2	language of management.		2
15JBA2	Language - English 2	Z	2
15JBA3	resentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work er Language - English 3	Z	2
15JBA4	s - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Opti FCE, CAE. Language - English 4	ZK	2
Presentation Skills	s - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Optili FCE, CAE.	onal courses for d	certificate
15JBF2	Language - French 2	Z	2
	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, fent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tech language of management.		
15JBF3	Language - French 3	Z	2
	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language level and study focus at the Faculty.		I
•	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w	0 0	•
	features. Practice of oral and written presentation.		
15JBF4	Language - French 4	ZK	2
-	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lar		
and perceptive and	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w features. Practice of oral and written presentation.	ith (professional)	text and
15JBI2	Language - Italian 2	Z	2
Grammatical Struc	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, fent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tech language of management.	feedback skills, st	ummarisi
15JBI3	Language - Italian 3	Z	2
	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lar	_	I
and perceptive and	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w features. Practice of oral and written presentation.	ith (professional)	text and
15JBI4	Language - Italian 4	ZK	2
	Language - Italian 4 istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lar		I
-	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w		
4E IDNO	features. Practice of oral and written presentation.		
15JBN2	Language - German 2 tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, f	Z feedhack skills si	2 Jummarisi
Prommotion Ctros	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tech		
	language of management.		
	<u> </u>	Z	2
echnical text conte	language of management. Language - German 3 stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language level and study focus at the Faculty.		ı

15JBN4	Language - German 4	ZK	2
•	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		•
and perceptive 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
4 <i>E</i> IDD2	features. Practice of oral and written presentation.	7	
15JBR2	Language - Russian 2 ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	Z foodback skills (2
	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec		_
	language of management.	ca. regiotere e	
15JBR3	Language - Russian 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.		T
15JBR4	Language - Russian 4	ZK	2
=	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v		_
and perceptive an	features. Practice of oral and written presentation.	viti (prolessional) text and its
15JBS2	Language - Spanish 2	Z	2
	ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,		1
technical text conte	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec	hnical registers a	nd their use,
	language of management.		
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 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
45 1004	features. Practice of oral and written presentation.	71/	
15JBS4	Language - Spanish 4 listics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la	ZK	2
	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v		ŭ
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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			
	Iransportation Psychology in German Speaking Countries	K7	2
	Transportation Psychology in German Speaking Countries oroader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, getti	KZ ng of driving licer	2 nce, children
	Iransportation Psychology in German Speaking Countries		_
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16XN3	Master Project 3	Z	1
16XN4	Master Project 4	Z	8
16XNDP	Master Thesis	KZ	18
16Y2HP	Vehicle Hygiene	KZ	2
•	nomy of vehicles and the influence on man and nature. National and international law related to the hygiene. Noise and vibrations - s		
physical values, way	s of measuring, prevention, elimination. Exhausts - creation, measurement, reduction, non-regular fuels and drives. Ergonomy - sitting	, standing, contro	ol, operationa
40)(010)	reach. Condition - heating, ventilation, air-conditioning, filtration, tiredom.	1/7	
16Y2KV	Car Body Design	KZ	2
	ody, high-load car body, bus car body, and motorcycle as a construction set. Principles of design, production, testing and operation. Note and passive safety parts. Ergonomics, HMI, view out of the vehicle, operational extent, view behind the car. Conditioning tools, sign of the car body. Design and artistic design principles. Practical training.		•
16Y2MK	Quality Methods for Vehicles	KZ	2
	t methods list, customer data acquisition and analysis of customer requirements, QFD, DFM, DFA, DFS. FMEA (Failure mode effect		1
Quality managemen	(team) design.	analysis). Lienie	illo di paralle
16Y2PG	Computer Graphics and Virtual Reality	KZ	2
	n and processing of bitmap and vector 2D graphics, 3D virtual scenes and algorithms used for their computerized processing. Adopting		1
•	ware tools for creation and processing of 2D, 3D and interactive graphics, and basics of programming language VRML and graphic li		-
16Y2ST	Special Technologies in Transport and Telecommunications	KZ	2
	pecial technologies, electric arc and its applications, plasma technologies, dipping, beam technologies, electron beams technology in		1
,	vehicles, laser and laser technologies, soldering, gluing, ultrasound, diffusion, friction and explosion technologies, micro stoves,		
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 const		- 1
•	and construction features, delivered mass calculation, economy of operation. Technics and technology of underground constructions		
	management methodology (ultrasound, laser, GPS, total stations).		
17DLOG	Transport Logistics	Z,ZK	3
Transport policy of E	European Union, Czech Republic, counties and municipalities. Vehicles, transport infrastructure and technology, management and inf	ormation system	s in transpor
and logistics, legal for	ramework and the people in the transport system. Transport service, transport logistics optimization methodology, progressive transport logistics.	-	s and the use
17EDO	Economics of Transport	Z,ZK	6
	R in the European and world context, transport funding in the CR, specifics of costing, legislation, functional efficiency of transport s		
characteristics of tra	ansport modes - forwarding ability, forwarding speed, economics of transport enterprise (microeconomics) - indicators according to r	nodes of transpo	rt, economic
	approach.		1
17KVAD	Quantitative Methods in Transport	Z,ZK	4
Distribution tasks.	models, methods, comparison, assignment tasks, models, methods, comparison, location tasks, discrete and continuous location, a		
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VRP, TSP, design fo	networks and subnetworks in transportation systems, methods of network analysis in technology of transportation and logistics sys	tems, principles	of modelling.
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JMT history and development i JMT types. UMT development 17Y2KI 17Y2MM asic terms, networks of railway	n Prague and other cities in the world. Building and operation of public tram, bus, and trolleybus networks. Underground building and oper in small towns. Particularities of investment and operation financing of individual UMT types. Historic and present models of UMT financing inspection and blind passengers. Tourism & Description and type of optimum financing. Capital Investment in Transportation and Telecommunications KZ Financial market, investment desicion making - long term goals and investment strategies, long term financing.	eration. Oth
JMT types. UMT development 17Y2KI 17Y2MM asic terms, networks of railway	in small towns. Particularities of investment and operation financing of individual UMT types. Historic and present models of UMT financing inspection and blind passengers. Tourism & Description and Telecommunications. Capital Investment in Transportation and Telecommunications Financial market, investment desicion making - long term goals and investment strategies, long term financing.	ng. Transpo
17Y2MM asic terms, networks of railway	Capital Investment in Transportation and Telecommunications KZ Financial market, investment desicion making - long term goals and investment strategies, long term financing.	
17Y2MM asic terms, networks of railway	Financial market, investment desicion making - long term goals and investment strategies, long temr financing.	_
asic terms, networks of railway		2
asic terms, networks of railway	Mobility of Small Towns KZ	2
	and bus lines, alternative forms of regional transport, influence in regional transport in vicinity of big cities, solutions of passenger and fre	_
47)/01/10	in regions, activities related to regional transport, passenger transport safety in regions.	
17Y2MS	Microsimulation of Railway Operation KZ	2
ntroduction to the characteristi	cs of simulation tools, creation of a simulation model of railway infrastructure, verification of a specific operational concept on the given in	nfrastructur
daptation of the infrastructure r	nodel and modification to the infrastructure to allow the implementation of the proposed operational concept. Stability tests and evaluation	ns. Evaluati
	of sensitivity of the operational concept to delays.	
17Y2NU	Cost and Benefits of Transport Systems KZ	2
	story, externalities and their internalization, public goods, transport funding, assessment of transport constructions and systems by the military and the constructions are systems by the construction of the construction of the constructions are systems.	
	influence of transport constructions on public budgets, relation of transport and economic growth, importance of transport in area, spatia	
17Y2PR	Carriage Processes KZ	2
	dering and contracting of carriage. Intergovernmental conventions on international carriage. Contract on passenger carriage. Contract on fre	
Forwarding contract. Liability	and rights based on carrying contract. Contractual carrying conditions. Guarantee of carrying contract by more operators. Internationally commercial terms (INCOTERMS). Tariff and calculation of prices.	accepted
17Y2PS	Case Studies in Transportation KZ	2
-	on the topics - the impact of transport on the environment and the economy, energy, construction of transport infrastructure etc. The stude	1
•	and the real issue, which solutions will have to think of each other. Each of them will be represent another role (public authorities, invest	
,	representative interest groups, residents, etc.).	,
17Y2RS	Regional Transport - Mobility of Small Towns KZ	2
Basic terms, networks of railway	and bus lines, alternative forms of regional transport, influence in regional transport in vicinity of big cities, solutions of passenger and fre	ight transp
	in regions, activities related to regional transport, passenger transport safety in regions.	
17Y2RZ	Control of Transport Processes KZ	2
Theoretical bases, transport sy	stem, decomposition, factors influencing control, quality diagnosis, methods of control, systems for decision making support, risk of decision	sion making
	telematics.	
17Y2SG	Systematic Creating of Railway Timetables KZ	2
	ocation, technological intervals in railway operation. Rules and regulations of train paths, running times, time adds and supplements. Roll	ing stock a
	irculation planning. Rules of train-diagramm creating. Train-diagramm construction in case of more service-levels on the line.	
17Y2SJ	Network Timetabling on the Railway KZ allocation, technological intervals in railway operation. Rules and regulations of train paths, running times, time adds and supplements. R	2
	in-diagramm creating. Timetables for more service-levels on the line. Construction slot conflicts between passenger- and freight transport	ū
rediction planning. Raics of tra		Network li
	relations and waiting times, timetables for lines under construction.	. Network li
17Y2SK	relations and waiting times, timetables for lines under construction. Urban and Regional Rail Transport System K7	_
17Y2SK	Urban and Regional Rail Transport System KZ	2
actors influencing transport de	<u> </u>	2 nd evaluation
actors influencing transport de	Urban and Regional Rail Transport System KZ emand, modal-split, traffic flows distribution on public transit network. Line network optimization and configuration. Timetable designing ar	2 nd evaluation
actors influencing transport de	Urban and Regional Rail Transport System KZ emand, modal-split, traffic flows distribution on public transit network. Line network optimization and configuration. Timetable designing are letable. Rolling stock circulation, staff and crew services optimization and their order to rosters. Framework legislation, non-barrier effects and their order to rosters.	2 nd evaluation
Factors influencing transport decenting integrated periodic tim	Urban and Regional Rail Transport System KZ emand, modal-split, traffic flows distribution on public transit network. Line network optimization and configuration. Timetable designing are letable. Rolling stock circulation, staff and crew services optimization and their order to rosters. Framework legislation, non-barrier effects and of public transport. Marketing.	2 nd evaluation
Factors influencing transport decenting integrated periodic tim	Urban and Regional Rail Transport System KZ emand, modal-split, traffic flows distribution on public transit network. Line network optimization and configuration. Timetable designing ar letable. Rolling stock circulation, staff and crew services optimization and their order to rosters. Framework legislation, non-barrier effects are of public transport. Marketing. Technological Prognoses in Transportation and Telecommunication	2 nd evaluation
Factors influencing transport deccenting integrated periodic time 17Y2TP The students wi	Urban and Regional Rail Transport System KZ emand, modal-split, traffic flows distribution on public transit network. Line network optimization and configuration. Timetable designing are letable. Rolling stock circulation, staff and crew services optimization and their order to rosters. Framework legislation, non-barrier effects are of public transport. Marketing. Technological Prognoses in Transportation and Telecommunication KZ Il be analysing both the general forecasting studies (NASA, CIA) and forecasting in the segment of transport and telecommunications.	2 nd evaluation nd preferen 2
Factors influencing transport decenting integrated periodic time 17Y2TP The students with 18XN1	Urban and Regional Rail Transport System KZ emand, modal-split, traffic flows distribution on public transit network. Line network optimization and configuration. Timetable designing are letable. Rolling stock circulation, staff and crew services optimization and their order to rosters. Framework legislation, non-barrier effects an of public transport. Marketing. Technological Prognoses in Transportation and Telecommunication KZ Il be analysing both the general forecasting studies (NASA, CIA) and forecasting in the segment of transport and telecommunications. Master Project 1 Z Master Project 2 Z	2 and evaluation preference 2
Factors influencing transport deccenting integrated periodic time 17Y2TP The students with 18XN1 18XN2 18XN3	Urban and Regional Rail Transport System KZ emand, modal-split, traffic flows distribution on public transit network. Line network optimization and configuration. Timetable designing are letable. Rolling stock circulation, staff and crew services optimization and their order to rosters. Framework legislation, non-barrier effects an of public transport. Marketing. Technological Prognoses in Transportation and Telecommunication KZ Il be analysing both the general forecasting studies (NASA, CIA) and forecasting in the segment of transport and telecommunications. Master Project 1 Z Master Project 2 Master Project 3 Z	2 and evaluation preference 2 2 2 2
Tactors influencing transport decenting integrated periodic time of the students with the students wit	Urban and Regional Rail Transport System KZ emand, modal-split, traffic flows distribution on public transit network. Line network optimization and configuration. Timetable designing are netable. Rolling stock circulation, staff and crew services optimization and their order to rosters. Framework legislation, non-barrier effects an of public transport. Marketing. Technological Prognoses in Transportation and Telecommunication KZ Il be analysing both the general forecasting studies (NASA, CIA) and forecasting in the segment of transport and telecommunications. Master Project 1 Z Master Project 2 Z Master Project 3 Z Master Project 4	2 and evaluation preference 2 2 2 1 8
Tactors influencing transport decenting integrated periodic time of the students with the students wit	Urban and Regional Rail Transport System RZ emand, modal-split, traffic flows distribution on public transit network. Line network optimization and configuration. Timetable designing are letable. Rolling stock circulation, staff and crew services optimization and their order to rosters. Framework legislation, non-barrier effects are of public transport. Marketing. Technological Prognoses in Transportation and Telecommunication KZ Il be analysing both the general forecasting studies (NASA, CIA) and forecasting in the segment of transport and telecommunications. Master Project 1 Z Master Project 2 Z Master Project 3 Z Master Project 4 Z Master Thesis	2 and evaluation of preference 2 2 2 2 1 8 18
Tactors influencing transport deccenting integrated periodic time. 17Y2TP The students with 18XN1 18XN2 18XN3 18XN4 18XNDP 18Y2D2	Urban and Regional Rail Transport System Example and the properties of the state of public transit network. Line network optimization and configuration. Timetable designing are netable. Rolling stock circulation, staff and crew services optimization and their order to rosters. Framework legislation, non-barrier effects are of public transport. Marketing. Technological Prognoses in Transportation and Telecommunication KZ Il be analysing both the general forecasting studies (NASA, CIA) and forecasting in the segment of transport and telecommunications. Master Project 1 Z Master Project 2 Z Master Project 3 Z Master Project 4 Z Master Project 4 Z Master Thesis KZ Dynamics of Transport Routes and Vehicles 2 KZ	2 nd evaluation preference 2 2 2 1 8 18 2
Tactors influencing transport deccenting integrated periodic time. 17Y2TP The students with 18XN1 18XN2 18XN3 18XN4 18XNDP 18Y2D2 Inalysis of forces in the vehicle.	Urban and Regional Rail Transport System Example and the properties of the structure of th	2 nd evaluation preference 2 2 2 1 8 18 2 no of dynamics
Tactors influencing transport deccenting integrated periodic time. 17Y2TP The students with 18XN1 18XN2 18XN3 18XN4 18XNDP 18Y2D2 Inalysis of forces in the vehicle.	Urban and Regional Rail Transport System Example and the properties of the state of public transit network. Line network optimization and configuration. Timetable designing are netable. Rolling stock circulation, staff and crew services optimization and their order to rosters. Framework legislation, non-barrier effects are of public transport. Marketing. Technological Prognoses in Transportation and Telecommunication KZ Il be analysing both the general forecasting studies (NASA, CIA) and forecasting in the segment of transport and telecommunications. Master Project 1 Z Master Project 2 Z Master Project 3 Z Master Project 4 Z Master Project 4 Z Master Thesis KZ Dynamics of Transport Routes and Vehicles 2 KZ	2 nd evaluation preference 2 2 2 1 8 18 2 no of dynamics
Tactors influencing transport decenting integrated periodic time. 17Y2TP The students with 18XN1 18XN2 18XN3 18XN4 18XNDP 18Y2D2 Inalysis of forces in the vehicle lodels of vehicles and transport.	Urban and Regional Rail Transport System Emand, modal-split, traffic flows distribution on public transit network. Line network optimization and configuration. Timetable designing are netable. Rolling stock circulation, staff and crew services optimization and their order to rosters. Framework legislation, non-barrier effects are of public transport. Marketing. Technological Prognoses in Transportation and Telecommunication KZ Il be analysing both the general forecasting studies (NASA, CIA) and forecasting in the segment of transport and telecommunications. Master Project 1 Z Master Project 2 Z Master Project 3 Z Master Project 4 Z Master Project 4 Z Dynamics of Transport Routes and Vehicles 2 and transport routes and their influence on the stress and strain components of the vehicle structure or behavior of traffic routes. Creatic troutes. Vibration of systems with a finite number of degrees of freedom. Methods of constant stiffness and constant compliance. Dynamic of structural systems. Criteria for the admissibility of oscillation.	2 nd evaluation preference 2 2 2 1 8 18 2 no of dynamics
Factors influencing transport deccenting integrated periodic time. 17Y2TP The students with 18XN1 18XN2 18XN3 18XN4 18XNDP 18Y2D2 Inalysis of forces in the vehicle models of vehicles and transport.	Urban and Regional Rail Transport System Emand, modal-split, traffic flows distribution on public transit network. Line network optimization and configuration. Timetable designing are netable. Rolling stock circulation, staff and crew services optimization and their order to rosters. Framework legislation, non-barrier effects are of public transport. Marketing. Technological Prognoses in Transportation and Telecommunication KZ Il be analysing both the general forecasting studies (NASA, CIA) and forecasting in the segment of transport and telecommunications. Master Project 1 Z Master Project 2 Z Master Project 3 Z Master Project 4 Z Master Project 4 Z Dynamics of Transport Routes and Vehicles 2 and transport routes and their influence on the stress and strain components of the vehicle structure or behavior of traffic routes. Creatic troutes. Vibration of systems with a finite number of degrees of freedom. Methods of constant stiffness and constant compliance. Dynamic of structural systems. Criteria for the admissibility of oscillation.	2 and evaluation of preference and p
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Factors influencing transport deccenting integrated periodic time. 17Y2TP The students with 18XN1 18XN2 18XN3 18XN4 18XNDP 18Y2D2 Inalysis of forces in the vehicle models of vehicles and transport.	Urban and Regional Rail Transport System KZ Bernand, modal-split, traffic flows distribution on public transit network. Line network optimization and configuration. Timetable designing are detable. Rolling stock circulation, staff and crew services optimization and their order to rosters. Framework legislation, non-barrier effects are of public transport. Marketing. Technological Prognoses in Transportation and Telecommunication KZ Il be analysing both the general forecasting studies (NASA, CIA) and forecasting in the segment of transport and telecommunications. Master Project 1 Z Master Project 2 Z Master Project 3 Z Master Project 4 Z Master Thesis KZ Dynamics of Transport Routes and Vehicles 2 and transport routes and their influence on the stress and strain components of the vehicle structure or behavior of traffic routes. Creation troutes. Vibration of systems with a finite number of degrees of freedom. Methods of constant stiffness and constant compliance. Dynamic of structural systems. Criteria for the admissibility of oscillation. Physical foundation of materials' properties s influence on properties of materials, stiffness, plasticity, strength, fracture, fatigue, creep, corrosion, effects of environment and loading	2 and evaluation of preference and p

18Y2SD	Reliability and Diagnostics, Experimental Methods	KZ	2
	ed on theoretical background and practical experience in the field of reliability of constructions, implementation of diagnostic procedur		n of material
	ination of residual life of structures. For this purpose, non-destructive methods of experimental mechanics (e. g. strain-gauge measure		
	optical methods, including electron microscopy, will be used.		• •
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 and		1
	raffic. Pedestrian injuries. Injury in railway and air traffic accidents. Analysis of biomechanical events in accidents and their computation		
,	treatment and rehabilitation. Protective elements and safety measures in transport.		
18Y2VC	Computational Mechanics in Transportation	KZ	2
	work and variational principles in FEM. Bar shaped, planar and three - dimensional structures in FEM. FEM in statics and in dynamic		
	elastoplastic and viscoelastic material. FEM in problems of biomechanics. Numerical analysis of structural parts with programme AN		
20SYDO		KZ	3
	System Transport Strategy of system sciences, system approach to information engineering, definition of system strategy, connections with scientific methodology.		_
	tegical thinkig, system of strategical management, application space of strategies with link to sustainable development, tools for maste	•	•
porccoesses of stra	of geoinformatical enegineer technologies.	ering of strategies v	with support
00)/N/4		7	
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
	series prediction, meaning of prediction, basics of quantitative prediction. Methods for predictive quality evaluation, descriptive statisti		_
prediction, predict	ion for general formula of loss function. Calculation and programming environment R. Regression models, basics of linear regression	i, simple regressio	n. Mulliple
00\/075	regression, statistical tests of linear dependence, selection of input variables.	1/7	
20Y2TE	Technology of Electronic Systems	KZ	2
Principle technologi	ies for an effective operation of electronically controlled systems. Maintaining, meassuring, optimization of safety and reliability of con	nplex systems. Ser	miconductor
	technologies, printed circuits, assembly operations, interconnection and repairs technologiesusers and operators.		_
20Y2UA	Artificial Neural Networks, Realization and Applications	KZ	2
History of neural ne	tworks. Basic principles. Comparing the structure of a natural and an artificial neuron. Neural classificators, predictors, compresors, ex	-	specialised
	functional blocs and systems. Modelling of neurons. Grossberg's equations. Learning principles. Leyered and Hopfield's net	S.	
21XN1	Master Project 1	Z	2
21XN2	Master Project 2	Z	2
21XN3	Master Project 3	Z	1
21XN4	Master Project 4	Z	
	·		8
21XNDP	Master Thesis	KZ	18
21XNDP 21Y2LS	Master Thesis Air Traffic Services	KZ KZ	18
21XNDP 21Y2LS	Master Thesis Air Traffic Services n Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, APP	KZ KZ a ACC control. His	18
21XNDP 21Y2LS Airspace structure i	Master Thesis Air Traffic Services n Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, APP at USA and Czechoslovakia. ATS - Model of financing. Training Systém of Air Traffic Controllers. Future development of ATS	KZ KZ a ACC control. His S.	18
21XNDP 21Y2LS	Master Thesis Air Traffic Services n Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, APP	KZ KZ a ACC control. His	18
21XNDP 21Y2LS Airspace structure i	Master Thesis Air Traffic Services n Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, APP at USA and Czechoslovakia. ATS - Model of financing. Training Systém of Air Traffic Controllers. Future development of ATS	KZ KZ a ACC control. His S.	18 2 story of ATS
21XNDP 21Y2LS Airspace structure i 21Y2MK The content of the conte	Master Thesis Air Traffic Services n Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, APP at USA and Czechoslovakia. ATS - Model of financing. Training Systém of Air Traffic Controllers. Future development of ATS Marketing of Air Transport	KZ KZ a ACC control. His S. KZ analysis, strategy d	18 2 story of ATS 2 levelopment
21XNDP 21Y2LS Airspace structure i 21Y2MK The content of the conte	Master Thesis Air Traffic Services n Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, APP at USA and Czechoslovakia. ATS - Model of financing. Training Systém of Air Traffic Controllers. Future development of ATS Marketing of Air Transport course "Marketing in air transport" is the management of activities and processes using available marketing tools and processes for a	KZ KZ a ACC control. His S. KZ analysis, strategy d	18 2 story of ATS 2 levelopment
21XNDP 21Y2LS Airspace structure i 21Y2MK The content of the cand implementation	Master Thesis Air Traffic Services n Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, APP at USA and Czechoslovakia. ATS - Model of financing. Training Systém of Air Traffic Controllers. Future development of ATS Marketing of Air Transport course "Marketing in air transport" is the management of activities and processes using available marketing tools and processes for a of sales of goods and services in the aviation industry. In addition to the theoretical foundations of marketing, the lectures present s and product analysis, creation of marketing strategies and planning.	KZ KZ a ACC control. His S. KZ analysis, strategy d ystems of market,	18 2 story of ATS 2 development competition
21XNDP 21Y2LS Airspace structure i 21Y2MK The content of the cand implementation 21Y2MS	Master Thesis Air Traffic Services n Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, APP at USA and Czechoslovakia. ATS - Model of financing. Training Systém of Air Traffic Controllers. Future development of ATS Marketing of Air Transport course "Marketing in air transport" is the management of activities and processes using available marketing tools and processes for a of sales of goods and services in the aviation industry. In addition to the theoretical foundations of marketing, the lectures present s and product analysis, creation of marketing strategies and planning. Aerospace Engineering Simulation and Modelling	KZ KZ a ACC control. His S. KZ analysis, strategy d ystems of market,	18 2 story of ATS 2 sevelopment competition 2
21XNDP 21Y2LS Airspace structure i 21Y2MK The content of the cand implementation 21Y2MS The course is designed.	Master Thesis Air Traffic Services n Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, APP at USA and Czechoslovakia. ATS - Model of financing. Training Systém of Air Traffic Controllers. Future development of ATS Marketing of Air Transport course "Marketing in air transport" is the management of activities and processes using available marketing tools and processes for a of sales of goods and services in the aviation industry. In addition to the theoretical foundations of marketing, the lectures present s and product analysis, creation of marketing strategies and planning. Aerospace Engineering Simulation and Modelling gned as a set of exemplary tasks and problems based on practical aviation issues. The university degree mathematic skills and softw	KZ KZ a ACC control. His S. KZ analysis, strategy d ystems of market, KZ vare applications us	18 2 story of ATS 2 levelopment competition 2 sage will be
21XNDP 21Y2LS Airspace structure i 21Y2MK The content of the cand implementation 21Y2MS The course is designed.	Master Thesis Air Traffic Services n Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, APP at USA and Czechoslovakia. ATS - Model of financing. Training Systém of Air Traffic Controllers. Future development of ATS Marketing of Air Transport course "Marketing in air transport" is the management of activities and processes using available marketing tools and processes for a of sales of goods and services in the aviation industry. In addition to the theoretical foundations of marketing, the lectures present s and product analysis, creation of marketing strategies and planning. Aerospace Engineering Simulation and Modelling gned as a set of exemplary tasks and problems based on practical aviation issues. The university degree mathematic skills and softwessful figuring out. Both simple tasks, where students create own model themselves (e.g. in Matlab), and more complicated problems	KZ KZ a ACC control. His S. KZ analysis, strategy d ystems of market, KZ vare applications us	18 2 story of ATS 2 levelopment competition 2 sage will be
21XNDP 21Y2LS Airspace structure i 21Y2MK The content of the cand implementation 21Y2MS The course is designecessary for successory	Master Thesis Air Traffic Services n Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, APP at USA and Czechoslovakia. ATS - Model of financing. Training Systém of Air Traffic Controllers. Future development of ATS Marketing of Air Transport course "Marketing in air transport" is the management of activities and processes using available marketing tools and processes for a of sales of goods and services in the aviation industry. In addition to the theoretical foundations of marketing, the lectures present s and product analysis, creation of marketing strategies and planning. Aerospace Engineering Simulation and Modelling gned as a set of exemplary tasks and problems based on practical aviation issues. The university degree mathematic skills and softwessful figuring out. Both simple tasks, where students create own model themselves (e.g. in Matlab), and more complicated problems tools will be applied.	KZ KZ a ACC control. His S. KZ analysis, strategy d ystems of market, KZ are applications us where professiona	18 2 story of ATS 2 levelopment competition 2 sage will be al developed
21XNDP 21Y2LS Airspace structure i 21Y2MK The content of the cand implementation 21Y2MS The course is designecessary for successary for successary	Master Thesis Air Traffic Services n Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, APP at USA and Czechoslovakia. ATS - Model of financing. Training Systém of Air Traffic Controllers. Future development of ATS Marketing of Air Transport course "Marketing in air transport" is the management of activities and processes using available marketing tools and processes for a of sales of goods and services in the aviation industry. In addition to the theoretical foundations of marketing, the lectures present s and product analysis, creation of marketing strategies and planning. Aerospace Engineering Simulation and Modelling gned as a set of exemplary tasks and problems based on practical aviation issues. The university degree mathematic skills and softwessful figuring out. Both simple tasks, where students create own model themselves (e.g. in Matlab), and more complicated problems tools will be applied. Operational Aspects of Aerodromes	KZ KZ a ACC control. His S. KZ analysis, strategy d ystems of market, KZ are applications us where professiona	18 2 story of ATS 2 levelopment competition 2 sage will be al developed 2
21XNDP 21Y2LS Airspace structure i 21Y2MK The content of the cand implementation 21Y2MS The course is designecessary for successary for successary	Master Thesis Air Traffic Services n Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, APP at USA and Czechoslovakia. ATS - Model of financing. Training Systém of Air Traffic Controllers. Future development of ATS Marketing of Air Transport course "Marketing in air transport" is the management of activities and processes using available marketing tools and processes for a of sales of goods and services in the aviation industry. In addition to the theoretical foundations of marketing, the lectures present s and product analysis, creation of marketing strategies and planning. Aerospace Engineering Simulation and Modelling gned as a set of exemplary tasks and problems based on practical aviation issues. The university degree mathematic skills and softwessful figuring out. Both simple tasks, where students create own model themselves (e.g. in Matlab), and more complicated problems tools will be applied. Operational Aspects of Aerodromes ts of aerodromes. Location of aerodrome and orientation of runways. Requirements for apron. Capacity of airports runways and term	KZ KZ a ACC control. His S. KZ analysis, strategy d ystems of market, KZ are applications us where professiona KZ inals. Operation us	18 2 story of ATS 2 levelopment competition 2 sage will be al developed 2
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23KRIO	Crisis Management for Engineering Branches	KZ	3
Human system.	Assets, terms, concept and safety management aims. Causes and consequences of disasters. Safety management. Crisis manage	ment-its aims, dem	ands, roles,
principles, specific	es and comparidon with the EU and NATO. Organisational, personal, legislative, finance, material and technical provision. The IZS ro	ole. Planning. Protec	ction of public
	and critical infrastructure. Problem solving.		
23MAR	Risk Analysis and Management	Z,ZK	3
Concept of risks a	and terms. Risk sources, definition of hazard, impacts and risks. Methods for identification, analysis, assessment and management	of risks. Risk engine	ering targets
and good engine	ering practice. Methods, tools and techniques for risk engineering. System of systems risk. Application of strategic and system appi	oach for benefit of	security 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
23Y2AE	Acoustics and Electroacoustics in Transportation	KZ	2
Basic acoustic qu	untities, properties of acoustic signals. Basic equations in acoustics, method of equivalent circuits. Acoustic impedance, damping. A	coustic actuators, lo	oudspeakers.
Acoustic sensors,	microphones. Fundamentals of acoustic signal processing. Acoustics of closed spaces. Fundamentals of acoustics in solids. Acoust	ic problems in trans	port and their
	solutions.		
23Y2BP	Security Class	KZ	2
The most preva	lent topics include data management, data and text mining applications, terrorism informatics, deception and intent detection, terror	ist and criminal soc	ial network
	analysis, crime analysis, cyber-infrastructure protection, transportation infrastructure security, and information assurance, amo	ng others.	
23Y2FB	Physics for Security Branches	KZ	2
Grounds of ph	ysics of substances and phenomena at extreme conditions. Grounds of rheology. Physics of Earth's interior. Geophysics. Physics o	f atmosphere. Appli	cations in
	dengineering branches directed to safety.		
23Y2NE	Design of Electronic Equipments	KZ	2
Characteristics ar	d realization of semiconductor electronic components, basic electronic devices division. Sources, input and output elements, proce	ss elements. Realiz	ation of basic
circuits - amp	ifiers, data converters. Analog electronic systems, analog computing. Switching elements, logic circuits, FPGA implementation. Sing	gle chip microcomp	uters and
	microcontrollers. Design (ORCAD), construction of electronic devices.		
23Y2VR	Cope with Risks in Engineering Branches	KZ	2
Types of engineer	ing branches directed to risks, procedures used in risk engineering, ensuring the secured systems, ensuring the safe systems, ensuring	ing the safe system	s of systems.
23Y2VS	Negotiation and Cooperation	KZ	2
Negotiation princi	oles. Negotiation sense, base, essence. Business and crisis negotiation differences. The "Win-Win" principle. Specification. Credibility	. Negotiation behav	ior principles.
	Negotiation and command. Team variability. Formal and informal team roles.		
23Y2VZ	Leadership and Human Resource Development	KZ	2
Introduction to the	s study of human resources, human resources management, corporate goals, strategies, cultural and ethical aspects. Team manage	ement, communicat	ion in teams,
	strategy and planning in human resources, ethics and corporate culture, cross-cultural differences. The labor code. Introduction in	to protocols.	
	Intelligence Means and Methods	KZ	2
23Y2ZM	intelligence wearts and wethous	1\Z	
	The ingerice idea is and identious seson of intelligence services and their role in the modern world. How intelligence services handle with information. Methods and proce		_
History and the pro		dures of collecting a	nd evaluating

For updated information see http://bilakniha.cvut.cz/en/FF.html Generated: day 2024-03-29, time 14:18.