Study plan

Name of study plan: ME nav.komb.11/12

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 combined

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: 103

The role of the block: Z

Code of the group: XNDPMEK 12/13

Name of the group: Diplomová práce nav.komb.ME 12/13

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

Credits in the group: 18 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
11XNDP	Master Thesis Evženie Uglickich	KZ	18	0P+20C+70E	L	Z
12XNDP	Master Thesis	KZ	18	0P+20C+70B	L	Z
13XNDP	Master Thesis	KZ	18	0+20	L	Z
14XNDP	Master Thesis	KZ	18	0P+20C+70B	L	Z
15XNDP	Master Thesis	KZ	18	0P+20C+70B	L	Z
23XNDP	Master Thesis	KZ	18	0P+20C+70B	L	Z
17XNDP	Master Thesis	KZ	18	0P+20C+70B	L	Z
18XNDP	Master Thesis	KZ	18	0P+20C+70B	L	Z
20XNDP	Master Thesis	KZ	18	0P+20C+70B	L	Z
21XNDP	Master Thesis Slobodan Stoji , Miloš Strouhal, Vladimír Socha, Peter Vittek, Iveta Kameníková, Petr Had, Petr Lukeš, Stanislav Pleninger, Petr en k,	KZ	18	0P+20C+70B	L	Z
22XNDP	Master Thesis	KZ	18	0P+20C+70B	L	Z
16XNDP	Master Thesis	KZ	18	0P+20C+70B	L	Z

Characteristics of the courses of this group of Study Plan: Code=XNDPMEK 12/13 Name=Diplomová práce nav.komb.ME 12/13

11XNDP	Master Thesis	KZ	18
12XNDP	Master Thesis	KZ	18
13XNDP	Master Thesis	KZ	18
14XNDP	Master Thesis	KZ	18
15XNDP	Master Thesis	KZ	18
23XNDP	Master Thesis	KZ	18
17XNDP	Master Thesis	KZ	18
18XNDP	Master Thesis	KZ	18
20XNDP	Master Thesis	KZ	18
21XNDP	Master Thesis	KZ	18
22XNDP	Master Thesis	KZ	18
16XNDP	Master Thesis	KZ	18

Code of the group: XNSK 12/13

Name of the group: Seminá k DP 4.sem nav. komb. 12/13

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 1 course

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
11XN4K	Seminar for Diploma Thesis	Z	8	8B	L	Z
12XN4K	Seminar for Diploma Thesis	Z	8	8B	L	Z
13XN4K	Seminar for Diploma Thesis	Z	8	8	L	Z
14XN4K	Seminar for Diploma Thesis	Z	8	8B	L	Z
16XN4K	Seminar for Diploma Thesis	Z	8	8B	L	Z
23XN4K	Seminar for Diploma Thesis"	Z	8	8B	L	Z
17XN4K	Seminar for Diploma Thesis	Z	8	8B	L	Z
18XN4K	Seminar for Diploma Thesis	Z	8	8B	L	Z
20XN4K	Seminar for Diploma Thesis	Z	8	8B	L	Z
21XN4K	Seminar for Diploma Thesis Slobodan Stoji, Vladimír Socha, Peter Vittek, Iveta Kameníková, Petr Had, Petr Lukeš, Stanislav Pleninger, Terézia Pilmannová, Eva Endrizalová,	Z	8	8B	L	Z
22XN4K	Seminar for Diploma Thesis	Z	8	8B	L	Z
15XN4K	Seminar for Diploma Thesis	Z	8	8B	L	Z

Characteristics of the courses of this group of Study Plan: Code=XNSK 12/13 Name=Seminá k DP 4.sem nav. komb. 12/13

11XN4K	Seminar for Diploma Thesis	7	8
12XN4K	Seminar for Diploma Thesis	Z	8
13XN4K	Seminar for Diploma Thesis	Z	8
14XN4K	Seminar for Diploma Thesis	Z	8
16XN4K	Seminar for Diploma Thesis	Z	8
23XN4K	Seminar for Diploma Thesis"	Z	8
17XN4K	Seminar for Diploma Thesis	Z	8
18XN4K	Seminar for Diploma Thesis	Z	8
20XN4K	Seminar for Diploma Thesis	Z	8
21XN4K	Seminar for Diploma Thesis	Z	8
22XN4K	Seminar for Diploma Thesis	Z	8
15XN4K	Seminar for Diploma Thesis	Z	8

Code of the group: 1.S.NKME 11/12

Name of the group: 1.sem.nav.komb.ME od 11/12

Requirement credits in the group: In this group you have to gain 28 credits

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

Credits in the group: 28
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
13EVS	Economics of the Public Sector	KZ	2	2+0	Z	Z
13IEK	Engineering Economics	Z,ZK	7	12		Z
15J2A1	Language - English 1 Barbora Horá ková, Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Marek Tome ek, Markéta Musilová,	Z	2	0P+2C+10E	Z	Z
17LOGK	Logistics Chains	Z,ZK	7	12		Z
17PREP	Carrying Processes	KZ	2	2+0	Z	Z
17TSI	Technology of Road Transport Michal Drábek	KZ	2	2P+0C+8E	3 Z	Z

17TZE	Technology of Railway Transport	ZK	2	2P+0C	Z	Z
11TER	Game Theory and Optimal Decision-Making Magdalena Hykšová Magdalena Hykšová (Gar.)	ZK 2		2P+0C+8B	Z	Z
Characteristics of the	ne courses of this group of Study Plan: Code=1.S.NKME 11/12 N	ame=1.sem.	nav.kom	b.ME od 1	1/12	
12DZP T	ransport and Environment				Z	2
This course aims the impa parcel of this course.	ct of transport on environment. The accent is put mainly on noise and vibration, emission	, barrier effect ar	nd energy de	emands. The	noise meas	ury is part an
13EVS E	Conomics of the Public Sector				۲Z	2
	eory of public sector, public choice theory, externalites, decisions about public finance all and indirect taxes, Laffer curve), state budget, management of public projects a their ecor					
Turiding from EO Turids.						
	Engineering Economics			Z	,ZK	7
13IEK E	d their calculation, depretiation methods. Inventory and its optimization. Cost analysis and	• •		ue and profit	of business	
13IEK E Wear and tear, lifetime an Financial sources and fina	d their calculation, depretiation methods. Inventory and its optimization. Cost analysis and incial management, diagnostics of economic activity. Structure of business plan, mathem	• •		ue and profit	of business	
13IEK E Wear and tear, lifetime an Financial sources and fina work, choice of optimal so	d their calculation, depretiation methods. Inventory and its optimization. Cost analysis and incial management, diagnostics of economic activity. Structure of business plan, mathem lution.	• •		ue and profit	of business d risks of ar	engineering
13IEK EWar and tear, lifetime an Financial sources and finawork, choice of optimal so	d their calculation, depretiation methods. Inventory and its optimization. Cost analysis and incial management, diagnostics of economic activity. Structure of business plan, mathem lution. anguage - English 1	atical tools for as	ssessment c	ue and profit	of business	
13IEK EWear and tear, lifetime an Financial sources and fina work, choice of optimal so 15J2A1 LPresentation Skills - experi	d their calculation, depretiation methods. Inventory and its optimization. Cost analysis and incial management, diagnostics of economic activity. Structure of business plan, mathem alution. Language - English 1 It technical discourse and style; Analysis of expert texts and their production; Preparation	atical tools for as	ssessment c	ue and profit of projects and projects and projects.	of business d risks of ar	engineering 2
13IEK E Wear and tear, lifetime an Financial sources and fina work, choice of optimal sc 15J2A1 L Presentation Skills - experiments of the L L L L L L L L L L L L L L L L L L L	d their calculation, depretiation methods. Inventory and its optimization. Cost analysis and incial management, diagnostics of economic activity. Structure of business plan, mathem lution. Language - English 1 It technical discourse and style; Analysis of expert texts and their production; Preparation ogistics Chains	atical tools for as	ssessment c	ue and profit of projects and ent.	of business d risks of ar	engineering 2 7
13IEK EWear and tear, lifetime an Financial sources and fina work, choice of optimal so 15J2A1 Leresentation Skills - expering 17LOGK L	d their calculation, depretiation methods. Inventory and its optimization. Cost analysis and incial management, diagnostics of economic activity. Structure of business plan, mathem alution. Language - English 1 It technical discourse and style; Analysis of expert texts and their production; Preparation	atical tools for as	ssessment o	ue and profit of projects and ent. Z	of business d risks of an Z	2 7 2
13IEK E Wear and tear, lifetime an Financial sources and fina work, choice of optimal so 15J2A1 L Presentation Skills - expering TLOGK L TPREP Carrying traffic in transpor	d their calculation, depretiation methods. Inventory and its optimization. Cost analysis and incial management, diagnostics of economic activity. Structure of business plan, mathem lution. Language - English 1 It technical discourse and style; Analysis of expert texts and their production; Preparation Logistics Chains Carrying Processes	atical tools for as	ork engagem	ue and profit of projects and ent. Z ervices. Inters	of business d risks of an Z	2 7 2
13IEK EWear and tear, lifetime an Financial sources and fina work, choice of optimal so 15J2A1 EPresentation Skills - expering traffic in transpor on international carriage.	d their calculation, depretiation methods. Inventory and its optimization. Cost analysis and incial management, diagnostics of economic activity. Structure of business plan, mathem lution. anguage - English 1 It technical discourse and style; Analysis of expert texts and their production; Preparation cogistics Chains Carrying Processes It. European right of access and transit in terms of commercial liability of operator. Ordering	atical tools for as	ork engagem	ue and profit of projects and ent. Z I ervices. Intercarriage.	of business d risks of an Z	2 7 2
13IEK EWear and tear, lifetime an Financial sources and fina work, choice of optimal so 15J2A1 EPresentation Skills - expering 17LOGK LOGING Carrying traffic in transpor on international carriage.	d their calculation, depretiation methods. Inventory and its optimization. Cost analysis and incial management, diagnostics of economic activity. Structure of business plan, mathem lution. Language - English 1 It technical discourse and style; Analysis of expert texts and their production; Preparation Logistics Chains Carrying Processes L. European right of access and transit in terms of commercial liability of operator. Ordering Passenger carriage. Freight carriage. Forwarding. Rights, duties and liabilities based on contents.	atical tools for as	ork engagem	ue and profit of projects and ent. Z ervices. Intercarriage.	of business d risks of ar	2 7 2 al conventio
13IEK E Wear and tear, lifetime an Financial sources and fina work, choice of optimal so 15J2A1 L Presentation Skills - exper 17LOGK L 17PREP C Carrying traffic in transpor on international carriage. I 17TSI 1 Legislative, operational, te	d their calculation, depretiation methods. Inventory and its optimization. Cost analysis and incial management, diagnostics of economic activity. Structure of business plan, mathem lution. Language - English 1 It technical discourse and style; Analysis of expert texts and their production; Preparation Logistics Chains Carrying Processes I. European right of access and transit in terms of commercial liability of operator. Ordering Passenger carriage. Freight carriage. Forwarding. Rights, duties and liabilities based on certain commercial liabilities based on certain liabilities based on	atical tools for as	ork engagem of carrying s Intermodal	ue and profit of projects and ent. Z ervices. Intercarriage. I agreements,	of business d risks of ar	2 7 2 al conventio 2 ts on the

17TZE Technology of Railway Transport

ZK 2

Track line capacity assessment, model operational situation with a system running time between IPT-nodes, calculation of traction energy savings compared with infrastructure costs for designing of fleeting crossing station, solving of capacity problem and blocking time in relation to train protection system, robustness of timetable, system concept of freight train paths, guidelines for centralised operational traffic control and management.

11TER Game Theory and Optimal Decision-Making

ZK

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.NKME 11/12

Name of the group: 2.sem.nav.komb.ME od 11/12

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, Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Marek Tome ek, Markéta Musilová,	Z	2	0P+2C+10B	L	Z
17KMD	Quantitative Methods in Transport Denisa Mocková, Dušan Teichmann Denisa Mocková (Gar.)	Z,ZK	6	2P+2C	L	Z
13MGD	Management of Transportation Systems	Z,ZK	3	2+1	L	Z
14MTSY	Telecommunications Systems Management	KZ	2	2+0	L	Z
13SMK	Strategic Marketing	Z	2	2+0	L	Z
20SYDO	System Transport Strategy	KZ	3	2+1	L	Z
18TAM	Theoretical and Applied Mechanics	ZK	2	2P+0C	L	Z
11THRO	Queuing Theory Šárka Vorá ová Šárka Vorá ová Šárka Vorá ová (Gar.)	ZK	2	2P+0C+8B	L	Z

Characteristics of the courses of this group of Study Plan: Code=2.S.NKME 11/12 Name=2.sem.nav.komb.ME od 11/12

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15JBA2	Language - English 2	Z	2
Presentation Skills - ex	pert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.	'	
17KMD	Quantitative Methods in Transport	Z,ZK	6
The course focuses on	the issue of the use of undirected graphs tree type, planar graphs and their coloring. Further distribution problems, facility local	ation problems ar	e formulated and
solved such as models	of integer linear programming. Besides the use of exact methods there are described simple and also more sofisticated heur	istics (metaheuris	stics) methods.
13MGD	Management of Transportation Systems	Z,ZK	3
Manager and his team	choice of team members, teamwork, leadership, training of communication and presentation skills of modern, operative and	strategic planning	g and decision
making, conflicts, moti-	ration, decision support methods, organizing, organization structures, organization welfare, control, project management (focu	used on PPP), de	cision support
systems in transportat	on (Highway Development and Management Tools)		

14MTSY Telecommunications Systems Management New trends in the area of e-communication services and relevant ecommunications networks, conditions and tools to provide optional set of services of required parameters based on hierarchal architecture of service management system (TMN). Positioning of broadband services, convergence trends leading to NGN. Financial criteria and tools as an integral part of providing service. 13SMK Strategic Marketing Marketing strategy, marketing mix tools, marketing consumer research, quantitative and qualitative research, information analysis, marketing communication, communication strategy, segmentation, placement, marketingového plan elaboration. 20SYDO ΚZ System Transport Strategy Complet overview of system sciences, system approach to information engineering, definition of system strategy, connections with scientific methodological base of transportation; porccoesses of strategical thinkig, system of strategical management, application space of strategies with link to sustainable development, tools for mastering of strategies with support of geoinformatical enegineer technologies. 18TAM Theoretical and Applied Mechanics 7K Fundamentals of theory of plasticity. Plasticity conditions. Elastoplastic and plastic state of body. Reliability and durability of structures. The stress and strain state around the notch. Stress intensity factor. Fracture toughness. Energy methods of linear fracture mechanics. Crack driving force. Opening the crack. Fatigue properties of the material. Fatigue process. Dimensioning of fatigue. 11THRO ZK **Queuing Theory** Discrete event process, definition, random distribution, and probability. Basic processes, process of revitalisation. Markov process, Markov models, Kendall classification, model M/M/1

Code of the group: 3.S.NKME 12/13

Name of the group: 3.sem.nav.komb.ME 12/13

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

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.

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
15DPS	Transportation Psychology	Z	2	2+0	Z	Z
13EEG	Economic of Transportation Energetic	KZ	3	2+0	Z	Z
13EDO	Economics of Transport	Z,ZK	6	2+2	Z	Z
15JBA3	Language - English 3 Barbora Horá ková, Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Eva Rezlerová	Z	2	0P+2C+10B	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

Characteristics of	the courses of this group of Study Plan: Code=3.5.NKME 12/13 Name=3.sem.nav.komb.w	E 12/13					
15DPS	Transportation Psychology	Z	2				
Subject of psychology and its basic concepts. Information intake, decision-making and behaviour. Performance. Engineering psychology and vehicle construction. Psychological asp							
of travel route and traffi	c conditions, accidents and traffic incidents. Selection and training of the staff. Work and leisure. Age as a factor in transport	operation.					
13EEG	Economic of Transportation Energetic	KZ	3				
Propulsion, energetic a	nd storage systems of vehicles, energy sources, traction-energetic properties, laws of vehicle motion, determination of energ	y consumption in	given conditions,				
assessment of energet	c requirements, traction-energetic concepts, technical, economic and social aspects, energetic rationalization, complexní as:	sessment of traction	on energetic				
conceptions. Energetics	s of high speed railways.						
13EDO	Economics of Transport	Z,ZK	6				
1							

Transport in the CR in the European and world context, transport funding in the CR, specifics of costing, legislation, functional efficiency of transport system, technical - economic characteristics of transport modes - forwarding ability, forwarding speed, economics of transport enterprise (microeconomics) - indicators according to modes of transport, economic

approach. 15JBA3 Z Language - English 3 2

Presentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement. Optional courses for certificates FCE, CAE.

14PPRP Computer Aided Project Management 2 What is the project? The basic terms a concepts of project management. Life cycle of the project and its phased approach. Analysis and specification of the assignment, activity definition, stages, objectives and measurability. Risk events and risk planning. Project change management during implementation. Preparation of the project outline (activities,

restrictions, assignments, calendars etc.) Project planning and optimization - time, resources. 17PMD **Project Management in Transportation** Z,ZK

Projects and project management, content and project leading, project process organization. Assessment criteria decision, technical and economical criteria. Criteria function and fulfillment of its components. Spatial development and decision making, building act. Financial instruments in project management, funding models, payment instruments. Spatial plans, EIA, selection proces, public commision

11STS Stochastic Systems Z.ZK

The subject deals with the problems of mathematical modelling of dynamical systems, estimation od these models and their utilization for prediction. The results are illustrated on practical transportation tasks. Mathematical theory roots from probability and mathematical statistics and they use the methods of the Bayesian probabilistic approach.

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

Name of the group: 4.sem.nav.komb. ME 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, Jitka He manová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerová	ZK	2	0P+2C+10B	٦	Z

Characteristics of the courses of this group of Study Plan: Code=4.S.NKME 12/13 Name=4.sem.nav.komb. ME 12/13

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

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 9

The role of the block: PV

Code of the group: W2-N 11/12

Name of the group: PVP nav.komb. od 11/12

Requirement credits in the group: In this group you have to gain 9 credits

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

Credits in the group: 9 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
17W2BU	Stock Market and Investment Companies	KZ	3	8	L	PV
17W2DT	Taxes and Fees in Transport and Telecommunications	KZ	3	8	L	PV
13W2DT	Taxes and Fees in Transport and Telecommunications	KZ	3	8	L	PV
17W2FM	Financing in Urban Mass Transportation	KZ	3	8B	Z	PV
15W2HS	Road Transport History	KZ	3	8B	L	PV
13W2IM	Investment and Insurance Mathematics	KZ	3	8	L	PV
17W2KI	Capital Investment in Transportation and Telecommunications	KZ	3	8	L	PV
13W2MC	Management of Travel Services Transportation	KZ	3	8	Z	PV
13W2MV	Management of Transportation Quality	KZ	3	8	L	PV
13W2MZ	Environmental Management	KZ	3	8	Z	PV
15W2MS	Sociology for Managers	KZ	3	8B	Z	PV
13W2NU	Cost and Benefits of Transport Systems	KZ	3	8	L	PV
15W2OZ	Health Protection in Transportation and EU Petr Musil	KZ	3	8B	Z	PV
17W2P	Insurance Bussiness	KZ	3	8	L	PV
15W2PT	Food in Transportation	KZ	3	8B	L	PV
17W2PR	Carriage Processes	KZ	3	8	Z	PV
13W2PS	Case Studies in Transportation	KZ	3	8	Z	PV
17W2PS	Case Studies in Transportation	KZ	3	8B	Z	PV
17W2RS	Regional Transport - Mobility of Small Towns	KZ	3	8	Z	PV
17W2RZ	Control of Transport Processes	KZ	3	8B	Z	PV
15W2SR	Stylistics and Rhetorics	KZ	3	8B	Z	PV
17W2SK	Urban and Regional Rail Transit Systems	KZ	3	8B	L	PV
15W2TS	Technician and Contemporary Society	KZ	3	8B	L	PV

Characteristics of the courses of this group of Study Plan: Code=W2-N 11/12 Name=PVP nav.komb. od 11/12

17W2BU Stock Market and Investment Companies	KZ	3
The course will teach the students to understand the financial and capital markets, especially the financial system, market determination of discour	nt rates, money-mar	ket analysis and
valuation of securities. Investor liquidity. Investment companies, its types, management and performance measuring of a portfolio, agiotage and ark	oitrage. The investm	ent instruments,
volatility and risks.	1	
17W2DT Taxes and Fees in Transport and Telecommunications	KZ	3
System of taxes and fees of the Czech Republic, comparison with customs in the EU. Purpose and kinds of taxes, fundamental terms and tax categ	ories. National budo	get, duties, state,
local and court fees. Historic development of rates of taxation of natural individual, legal entity, VAT, consumption tax.	1	_
13W2DT Taxes and Fees in Transport and Telecommunications	KZ	3
System of taxes and fees of the Czech Republic, comparison with customs in the EU. Purpose and kinds of taxes, fundamental terms and tax categ	ories. National budo	jet, duties, state,
local and court fees. Historic development of rates of taxation of natural individual, legal entity, VAT, consumption tax.	1/7	0
17W2FM Financing in Urban Mass Transportation	KZ	3
UMT history and development in Prague and other cities in the world. Building and operation of public tram, bus, and trolleybus networks. Undergree LIMT transport in great transport in		
UMT types. UMT development in small towns. Particularities of investment and operation financing of individual UMT types. Historic and present m inspection and blind passengers. Tourism & Dutt. UMT typology & Dutt. On the present m inspection and blind passengers. Tourism & Dutt. UMT typology & Dutt. On the present m inspection and blind passengers. Tourism & Dutt. UMT typology & Dutt. On the present m inspection and blind passengers. Tourism & Dutt. UMT typology & Dutt. On the present m inspection and blind passengers. Tourism & Dutt. UMT typology & Dutt. On the present m inspection and blind passengers. Tourism & Dutt. UMT typology & Dutt. On the present m inspection and blind passengers. Tourism & Dutt. UMT typology & Dutt. On the present m inspection and blind passengers. Tourism & Dutt. UMT typology & Dutt. On the present m inspection and blind passengers. Tourism & Dutt. UMT typology & Dutt. On the present m inspection and blind passengers. Tourism & Dutt. UMT typology & Dutt. On the present m inspection and blind passengers. Tourism & Dutt. On the present m inspection and blind passengers. Tourism & Dutt. On the present m inspection and blind passengers. Tourism & Dutt. On the present m inspection and blind passengers. Tourism & Dutt. On the present m inspection and blind passengers. Tourism & Dutt. On the present m inspection and blind passengers. Tourism & Dutt. On the present m inspection and blind passengers. Tourism & Dutt. On the present m inspection and blind passengers. Tourism & Dutt. On the present m inspection and blind passengers. Tourism & Dutt. On the present m inspection and blind passengers. Tourism & Dutt. On the present m inspection and blind passengers. Tourism & Dutt. On the present m inspection and blind passengers. Tourism & Dutt. On the present m inspection and blind passengers. Tourism & Dutt. On the present m inspection and blind passengers. Tourism & Dutt. On the present m inspection and blind passengers. Tourism & Dutt. On the present m inspection and blind passengers. Tourism	lodels of Olvi i Illian	cing. transport
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	or road travelling in	modern penod.
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17W2SK Urban and Regional Rail Transit Systems

Factors influencing transport demand, modal-split, traffic flows distribution on public transit network. Line network optimization and configuration. Timetable designing and evaluation accenting integrated periodic timetable. Rolling stock circulation, staff and crew services optimization and their order to rosters. Framework legislation, non-barrier effects and preference of public transport. Marketing.

Technician and Contemporary Society

Why to take off a hat in a room and open a door for a lady, are there simple solutions, science vs belief, do we need to know or is it enough to turn on a PC, it must be true - it's on the Internet and in newspapers, what are the sights for, interest in public affairs - a hangover from the past?

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-11/12

Name of the group: Jazyk nav.1.- 4.sem. 11/12

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

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

Credits in the group: 8 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
15J2F1	Language - French 1 Eva Rezlerová, Irena Veselková	Z	2	0P+2C+10E	3 Z	J
15JBF2	Language - French 2 Eva Rezlerová, Irena Veselková	Z	2	0P+2C+10E	L L	J
15JBF3	Language - French 3 Eva Rezlerová, Irena Veselková	Z	2	0P+2C+10E	Z	J
15JBF4	Language - French 4 Eva Rezlerová, Irena Veselková	ZK	2	0P+2C+10E	L L	J
15J2N1	Language - German 1 Eva Rezlerová, Martina Navrátilová, Jana Štikarová	Z	2	0P+2C+10E	Z	J
15JBN2	Language - German 2 Eva Rezlerová, Martina Navrátilová, Jana Štikarová	Z	2	0P+2C+10E	L L	J
15JBN3	Language - German 3 Eva Rezlerová, Martina Navrátilová, Jana Štikarová	Z	2	0P+2C+10E	B Z	J
15JBN4	Language - German 4 Eva Rezlerová, Martina Navrátilová, Jana Štikarová	ZK	2	0P+2C+10E	B L	J
15J2R1	Language - Russian 1 Marie Michlová, Eva Rezlerová	Z	2	0P+2C+10E	B Z	J
15JBR2	Language - Russian 2 Marie Michlová, Eva Rezlerová	Z	2	0P+2C+10E	B L	J
15JBR3	Language - Russian 3 Marie Michlová, Eva Rezlerová	Z	2	0P+2C+10E	B Z	J
15JBR4	Language - Russian 4 Marie Michlová, Eva Rezlerová	ZK	2	0P+2C+10E	B L	J
15J2S1	Language - Spanish 1 Eva Rezlerová, Nina Hricsina Puškinová	Z	2	0P+2C+10E	3 Z	J
15JBS2	Language - Spanish 2 Eva Rezlerová, Nina Hricsina Puškinová	Z	2	0P+2C+10E	B L	J
15JBS3	Language - Spanish 3 Eva Rezlerová, Nina Hricsina Puškinová	Z	2	0P+2C+10E	B Z	J
15JBS4	Language - Spanish 4 Eva Rezlerová, Nina Hricsina Puškinová	ZK	2	0P+2C+10E	B L	J

Characteristics of the courses of this group of Study Plan: Code=JZ-N-11/12 Name=Jazyk nav.1.- 4.sem. 11/12

155251	Language - French i	_	
Grammatical Structures	and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative ski	lls, feedback skill	s, summarising
technical text content, s	tructuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and	technical register	rs and their use,
language of manageme	nt		

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

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.

15JBF4 Language - French 4 2 ZK

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.

15J2N1 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 15JBN2 Language - German 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. 15JBN3 Language - German 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. 15JBN4 Language - German 4 ZK 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. 15J2R1 Language - Russian 1 Ζ 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. **15JBR3** Language - Russian 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. 15JBR4 Language - Russian 4 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. 15J2S1 Language - Spanish 1 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management. 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. 15JBS3 Language - Spanish 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. Language - Spanish 4 15JBS4 ZK 2 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

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.

List of courses of this pass:

Name of the course

C ~ d ~

Completion Credite

Code	Name of the course	Completion	Credits		
11STS	Stochastic Systems	Z,ZK	4		
The subject dea	The subject deals with the problems of mathematical modelling of dynamical systems, estimation od these models and their utilization for prediction. The results are illustrated on				
practical tra	ansportation tasks. Mathematical theory roots from probability and mathematical statistics and they use the methods of the Bayesian	probabilistic appro	ach.		
11TER	Game Theory and Optimal Decision-Making	ZK	2		
Decision-making t	neory, utility theory. Explicit form games, backward induction. Normal form games. Antagonistic conflict, matrix games. Repeated gam	ies, evolutionary g	ame theory.		
Cooperative gam	es without transferable payoffs. Cooperative games with transferable payoffs (imputation, core, Shapley value, nucleolus). Application	s of game theory a	above all in		
	economics and transportation.				
11THRO	Queuing Theory	ZK	2		
Discrete event prod	Discrete event process, definition, random distribution, and probability. Basic processes, process of revitalisation. Markov process, Markov models, Kendall classification, model M/M/1,				
mode	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.				
11XN4K	Seminar for Diploma Thesis	Z	8		
11XNDP	Master Thesis	KZ	18		

Transport and Environment ct of transport on environment. The accent is put mainly on noise and vibration, emission, barrier effect and energy demands. parcel of this course. Seminar for Diploma Thesis Master Thesis Economics of Transport	Z KZ	2 ry is part and 8 18
parcel of this course. Seminar for Diploma Thesis Master Thesis	Z KZ	8
Seminar for Diploma Thesis Master Thesis	KZ	
Master Thesis	KZ	
		18
Economics of Transport		10
	Z,ZK	6
e European and world context, transport funding in the CR, specifics of costing, legislation, functional efficiency of transport s	ystem, technical -	economic
t modes - forwarding ability, forwarding speed, economics of transport enterprise (microeconomics) - indicators according to n	nodes of transpor	rt, economic
approach.		
Economic of Transportation Energetic	KZ	3
storage systems of vehicles, energy sources, traction-energetic properties, laws of vehicle motion, determination of energy cor		n conditions
requirements, traction-energetic concepts, technical, economic and social aspects, energetic rationalization, complexní asset	ssment of traction	n energetic
conceptions. Energetics of high speed railways.		-
Economics of the Public Sector	KZ	2
	lic projects (CBA	, MCA), tax
funding from EU funds.		
Engineering Economics	7 7K	7
		1
	Jana Hoto of all	ongmooning
	7 74	3
	,	_
	a on FFF), decis	ion support
	_	2
	tion, communicat	tion strategy
		T -
		3
	National budget,	duties, state
local and court fees. Historic development of rates of taxation of natural individual, legal entity, VAT, consumption tax.		
Investment and Insurance Mathematics	KZ	3
fficient and real. Annuity, cash flow, present and future value. Debt amortization. Investment assessment. Security pricing. Bas	c notions and pri	nciples of
ance - risks, tariff groups, drivers, premium. Basics of demography, life tables, commutation functions. Capital life insurance, er	idowment, whole	life. Annuity
insurance. Current premium, gross premium, premium reserves.		
Management of Travel Services Transportation	KZ	3
purist trade, transport services, accomodation services, catering services, guide sevices, spa services, organization and services	s of travel agencie	s, marketinç
and specifics of services in the tourist trade.		
Management of Transportation Quality	KZ	3
	ransport quality,	quality costs
quality measurement and monitoring, statistics in quality management, improving, focus on the customer.		
Environmental Management	K7	3
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	portarioo aria o	- accomodition
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	e studies and su	usequent
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' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '		8
Master Thesis	KZ	18
Telecommunications Systems Management	KZ	2
· · · · · · · · · · · · · · · · · · ·	equired paramete	ers based or
service management system (TMN). Positioning of broadband services, convergence trends leading to NGN. Financial criteria	and tools as an	integral part
of providing service.		
	KZ	2
		1
	. ,	,
Seminar for Diploma Thesis	Z	8
·		-
Master Thesis	KZ	18
Transportation Psychology	Z	2
its basic concepts. Information intake, decision-making and behaviour. Performance. Engineering psychology and vehicle constr	ruction. Psycholog	gical aspects
	ruction. Psycholog	gical aspects
that can be contained the cont	conceptions. Energetics of high speed railways. Economics of the Public Sector theory of public sector, public choice theory, externalities, decisions about public finance allocation, economic assessment of public and indirect taxes, Laffer curve), state budget, management of public projects a their economic efficiency assessment, way of funding from EU funds. Engineering Economics and their calculation, depretiation methods. Inventory and its optimization. Cost analysis and costing, problems of revenue and anacial management, diagnostics of economic activity. Structure of business plan, mathematical tools for assessment of projects work, choice of optimal solution. Management of Transportation Systems choice of team members, teamwork, leadership, training of communication and presentation skills of modern, operative and stration, decision support methods, organizing, organization structures, organization welfare, control, project management (flocuse systems in transportation (Highways Development and Management Tools). Strategic Marketing ating mix tools, marketing consumer research, quantitative and qualitative research, information analysis, marketing communication, placement, marketingového plan elaboration. Taxes and Fees in Transport and Telecommunications of the Czech Republic, comparison with oustoms in the EU-Purpose and kinds of taxes, fundamental terms and tax categories. local and court fees. Historic development of rates of taxation of natural individual, legal entity, VAT, consumption tax. Investment and Insurance Markematics afficient and real. Annuity, cash flow, present and future value. Debt amortization, intrestment assessment. Security pricing. Basi rance - risks, tariff groups, drivers, premium, premium gross premium, flous of the court of the environment and cology, ecosystems in	Economics of the Public Sector KZ theory of public sector, public choice theory, esternalities, decisions about public finance allocation, economic assessment of public projects (CBA and indirect taxes, Laffer curve), state budget, management of public projects a their economic efficiency assessment, way of elaboration of PF funding from EU funds. Engineering Economics Z, ZK and their calculation, depretation methods. Inventory and its optimization. Cost analysis and costing, problems of revenue and profit of business nancial management, diagnostics of economic activity. Structure of business plan, mathematical tools for assessment of projects and risks of an work, choice of optimal solution. Management of Transportation Systems Z, ZK choice of team members, teamwork, leadership, training of communication and presentation skills of modern, operative and strategic planning a stion, decision support methods, organizing, organization structures, organization welfare, control, project management (focused on PPP), decis systems in transportation (fightway Development and Management Tools). Strategic Marketing Z sling mix tools, marketing consumer research, quantitative and qualitative research, information analysis, marketing communication, communication segmentation, patientation, patienterin, transportation fluid qualitative research, information analysis, marketing communication, communication of the Czech Republic, comparison with customs in the EU Purpose and kinds of taxes, fundamental terms and tax categories. National budget, local and court fees. Historic development of rates of taxation of natural individual, legal entity, VAT, consumption tax. Investment and Insurrance Mathematics KZ efficient and real. Annuity, cash flow, present and future value. Debt amortization, investment assessment. Security pricing. Basic notions and pri rance - risks, tariff groups, drivers, premium. Basics of demography, life tables, communitation functions. Capital life insurance, endowment, whole insura

15J2F1	Language - French 1	Z	2
	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	feedback skills, su	ummarising
	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec		- 1
	language of management.		
15J2N1	Language - German 1	Z	2
	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	feedback skills, su	ummarising
technical text conte	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec	hnical registers an	d their use,
	language of management.		
15J2R1	Language - Russian 1	Z	2
Grammatical Struc	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	feedback skills, su	ummarising
technical text conte	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec	hnical registers an	d their use,
	language of management.		
15J2S1	Language - Spanish 1	Z	2
	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,		- 1
technical text conte	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec	hnical registers an	d their use,
	language of management.	_	
15JBA2	Language - English 2	Z	2
	resentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work		_
15JBA3	Language - English 3	Z	2
Presentation Skill	s - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Op	tional courses for c	ertificates
45.15.4.4	FCE, CAE.	714	
15JBA4	Language - English 4	ZK	2
Presentation Skill	s - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Op	tional courses for c	ertificates
45 1050	FCE, CAE.		
15JBF2	Language - French 2	Z	2
	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,		- 1
technical text conte	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec language of management.	mnicai registers an	u trieir use,
4 <i>E</i> IDE2		7	2
15JBF3	Language - French 3 stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of le	Z	2 knowledge
=	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v		- 1
and perceptive and	features. Practice of oral and written presentation.	with (professional)	toxt and its
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 k	l l	_
=	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v		- 1
	features. Practice of oral and written presentation.	(
15JBN2	Language - German 2	Z	2
	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	feedback skills, su	ummarising
	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec		
	language of management.		
15JBN3	Language - German 3	Z	2
	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		
and perceptive and	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v	with (professional)	text and its
	features. Practice of oral and written presentation.		
15JBN4	Language - German 4	ZK	2
· · · · · · · · · · · · · · · · · · ·	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of k		- 1
and perceptive and	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v	vith (professional)	text and its
4= -= -	features. Practice of oral and written presentation.		_
15JBR2	Language - Russian 2	Z	2
	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,		- 1
tecnnical text conte	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec	nnicai registers an	a tneir use,
45 1000	language of management.	-,	
15JBR3	Language - Russian 3	Z	2
· · · · · · · · · · · · · · · · · · ·	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lad communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v		- 1
and perceptive and	features. Practice of oral and written presentation.	with (professional)	text and its
15JBR4		ZK	2
	Language - Russian 4 stics. 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		- 1
. ,	features. Practice of oral and written presentation.	(1 2.223.07.01)	
15JBS2	Language - Spanish 2	Z	2
	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	ı	
	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec		- 1
	language of management.		
15JBS3	Language - Spanish 3	Z	2
	stics. 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 was a communicative skills, vocabulary development.		
	features. Practice of oral and written presentation.		
15JBS4	Language - Spanish 4	ZK	2
=	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		- 1
and perceptive and	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v	with (professional)	text and its
	features. Practice of oral and written presentation.		

15W2HS	Road Transport History	KZ	3
	affic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road		- 1
1st part of 20th cei	ntury. Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of road	id travelling in mod	ern period.
4514/0140	History of road intercections, bridges and traffic control, development of road signs.	1/7	
15W2MS	Sociology for Managers	KZ	3
	roach to a corporation. Corporation and its organization. Corporation and its running - human role and communication. Corporation, it Iuman's work position in free market economy. Corporate directorship, work groups, adaptation, strife, different roles and positions in		i system.
15W2OZ	Health Protection in Transportation and EU	KZ	3
	in transportation in CR in the past and present. Conditions before 1989 and after, current legislature, future prospects. Harmonisation		
ricaltii protection	members. Fundamental principles of health protection and support in selected EU countries.	Tor legislation with	Ollici EO
15W2PT	Food in Transportation	KZ	3
	ا د Interaction transportation and foodstuffs. The health risks. Hygienic safeguard. The practical examples from the Czech Republic and		_
The figure perior	dining cars, work trains and other railroad equipment. Legislation.		0.00000
15W2SR	Stylistics and Rhetorics	KZ	3
	and written expression as a means of human communication. Basic information about speech, articulation, oral and written language		
	ng. Language semantics, language syntactic and the pragmatic aspect. Creative thought and its oral and written expression. Practice -		
15W2TS	Technician and Contemporary Society	KZ	3
	at in a room and open a door for a lady, are there simple solutions, science vs belief, do we need to know or is it enough to turn on a l		
-	Internet and in newspapers, what are the sights for, interest in public affairs - a hangover from the past?		
15XN4K	Seminar for Diploma Thesis	Z	8
15XNDP	Master Thesis	KZ	18
16XN4K	Seminar for Diploma Thesis	Z	8
16XNDP	Master Thesis	KZ	18
17KMD		Z,ZK	6
	Quantitative Methods in Transport s on the issue of the use of undirected graphs tree type, planar graphs and their coloring. Further distribution problems, facility location		- 1
	odels of integer linear programming. Besides the use of exact methods there are described simple and also more sofisticated heuristi	-	
17LOGK	Logistics Chains	Z,ZK	7
17PMD		Z,ZK	6
	Project Management in Transportation ect management, content and project leading, project process organization. Assessment criteria decision, technical and economical		-
	ponents. Spatial development and decision making, building act. Financial instruments in project management, funding models, paym		
	EIA, selection proces, public commission.	oo aoo.	atiai piario,
17PREP	Carrying Processes	KZ	2
	ansport. European right of access and transit in terms of commercial liability of operator. Ordering and contracting of carrying services. I	l I	
	nternational carriage. Passenger carriage. Freight carriage. Forwarding. Rights, duties and liabilities based on carriage contract. Intern	-	
17TSI	Technology of Road Transport	KZ	2
Legislative, ope	rational, technical, logistic and safety conditions of road transport, basic transport technologies, special transport, international agree	ments, requirement	s on the
parameters and sp	pecialization of transport, handling and loading/unloading means, maintenance, service and repairs of road vehicles, safety of road tra	ansport and choice	of optimal
	transport unit.		
17TZE	Technology of Railway Transport	ZK	2
	assesment, model operational situation with a system running time between IPT-nodes, calculation of traction energy savings comp		
for designing of flo	eeting crossing station, solving of capacity problem and blocking time in relation to train protection system, robustness of timetable, sy	stem concept of fr	eight train
	paths, guidelines for centralised operational traffic control and management.		
17W2BU	Stock Market and Investment Companies	KZ	3
	ch the students to understand the financial and capital markets, especially the financial system, market determination of discount rate		- 1
valuation of securit	ies. Investor liquidity. Investment companies, its types, management and performance measuring of a portfolio, agiotage and arbitrage	e. The investment in	nstruments,
47\MODT	volatility and risks.	1/7	
17W2DT	Taxes and Fees in Transport and Telecommunications	KZ	3
System of taxes an	d fees of the Czech Republic, comparison with customs in the EU. Purpose and kinds of taxes, fundamental terms and tax categories. local and court fees. Historic development of rates of taxation of natural individual, legal entity, VAT, consumption tax.	ivational budget, di	ulies, state,
17\\/2EM	· · · · · · · · · · · · · · · · · · ·	V7	2
17W2FM	Financing in Urban Mass Transportation evelopment in Prague and other cities in the world. Building and operation of public tram, bus, and trolleybus networks. Underground	KZ	3 tion Other
=	development in Frague and other cities in the world. Building and operation of public train, bus, and trolleyous networks. Orderground development in small towns. Particularities of investment and operation financing of individual UMT types. Historic and present models		
OMIT Typool OMIT	inspection and blind passengers. Tourism & Durth UMT. UMT typology & Durth UMT in process in the process of the	o or own manoring	. manoport
17W2KI	Capital Investment in Transportation and Telecommunications	KZ	3
17 772131	Financial market, investment desicion making - long term goals and investment strategies, long term financing.	112	
17W2P	Insurance Bussiness	KZ	3
	rrance bussiness - history and progress. Insurance company, insurance - sorts. Risks and damages. Reinsurance company, principle		
17W2PR	Carriage Processes	KZ	3
	al liability. Ordering and contracting of carriage. Intergovernmental conventions on international carriage. Contract on passenger carriage.		
	tract. Liability and rights based on carrying contract. Contractual carrying conditions. Guarantee of carrying contract by more operator	_	- 1
Ç ·	commercial terms (INCOTERMS). Tariff and calculation of prices.	, .	•
17W2PS	Case Studies in Transportation	KZ	3
	discussions on the topics - the impact of transport on the environment and the economy, energy, construction of transport infrastructu		
•	d one current and the real issue, which solutions will have to think of each other. Each of them will be represent another role (public a		
	representative interest groups, residents, etc.).		
17W2RS	Regional Transport - Mobility of Small Towns	KZ	3
	rks of railway and bus lines, alternative forms of regional transport, influence in regional transport in vicinity of big cities, solutions of p	assenger and freigl	nt transport

17W2RZ	Control of Transport Processes	KZ	3
Theoretical bases	transport system, decomposition, factors influencing control, quality diagnosis, methods of control, systems for decision making sup	port, risk of decis	ion making,
	telematics.		
17W2SK	Urban and Regional Rail Transit Systems	KZ	3
Factors influencing	transport demand, modal-split, traffic flows distribution on public transit network. Line network optimization and configuration. Timet	able designing an	d evaluation
accenting integrate	d periodic timetable. Rolling stock circulation, staff and crew services optimization and their order to rosters. Framework legislation, nor	n-barrier effects an	d preference
	of public transport. Marketing.		
17XN4K	Seminar for Diploma Thesis	Z	8
17XNDP	Master Thesis	KZ	18
18TAM	Theoretical and Applied Mechanics	ZK	2
Fundamentals of t	heory of plasticity. Plasticity conditions. Elastoplastic and plastic state of body. Reliability and durability of structures. The stress and	strain state aroun	the notch.
Stress intensity fac	ctor. Fracture toughness. Energy methods of linear fracture mechanics. Crack driving force. Opening the crack. Fatigue properties of	the material. Fatig	ue process.
	Dimensioning of fatigue.		
18XN4K	Seminar for Diploma Thesis	Z	8
18XNDP	Master Thesis	KZ	18
20SYDO	System Transport Strategy	KZ	3
Complet overview	of system sciences, system approach to information engineering, definition of system strategy, connections with scientific methodol	ogical base pf trar	sportation;
orccoesses of stra	tegical thinkig, system of strategical management, application space of strategies with link to sustainable development, tools for mast	ering of strategies	with suppo
	of geoinformatical enegineer technologies.		
20XN4K	Seminar for Diploma Thesis	Z	8
20XNDP	Master Thesis	KZ	18
21XN4K	Seminar for Diploma Thesis	Z	8
21XNDP	Master Thesis	KZ	18
22XN4K	Seminar for Diploma Thesis	Z	8
22XNDP	Master Thesis	KZ	18
23XN4K	Seminar for Diploma Thesis"	Z	8
23XNDP	Master Thesis	KZ	18

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