Recomended pass through the study plan

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

Faculty/Institute/Others:

Department:

Pass through the study plan: Master Full-Time DS from 2023/24 Branch of study guranteed by the department: Welcome page

Guarantor of the study branch:

Program of study: Transportation Systems and Technology

Type of study: Follow-up master full-time

Note on the pass:

Coding of roles of courses and groups of courses:

P - compulsory courses of the program, PO - compulsory courses of the branch, Z - compulsory courses, S - compulsory elective courses, PV - compulsory elective courses, F - elective specialized courses, V - elective courses, T - physical training courses

Coding of ways of completion of courses (KZ/Z/ZK) and coding of semesters (Z/L):

KZ - graded assesment, Z - assesment, ZK - examination, L - summer semester, Z - winter semester

Number of semester: 1

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members)	Completion	Credits	Scope	Semester	Role
14GISS	Tutors, authors and guarantors (gar.) Geographical Information Systems Vit Fábera, František Kekula, Tomáš Janata, Zuzana Purkrábková Tomáš Janata Tomáš Janata (Gar.)	KZ	2	0P+2C+8B	Z	Z
18GAZ	Geomechanics and Foundation Engineering Jitka ezní ková, Linda erná Vydrová, Vít Malinovský Linda erná Vydrová Linda erná Vydrová (Gar.)	Z,ZK	3	2P+1C	Z	Z
12IKD	Rail Transport Infrastructure Lukáš Týfa, Ond ej Trešl	Z,ZK	5	2P+2C	Z	Z
15J2A1	Language - English 1 Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerová	Z	2	0P+2C+10B	Z	Z
22MSV	Modelling and Vehicle Movement Simulation Michal Frydrýn, Drahomír Schmidt Michal Frydrýn Drahomír Schmidt (Gar.)	KZ	2	0P+2C	Z	Z
18TIK	Theory of Engineering Structures Petr Koudelka, Petr Zlámal, Ond ej Jiroušek, Ján Kopa ka Ond ej Jiroušek Ond ej Jiroušek (Gar.)	Z,ZK	4	2P+1C	Z	ZP
12TKVP	Highway Engineering Materials Otakar Vacín	Z,ZK	4	2P+2C	Z	Z
15JCZ1	Czech Language for Foreign Students 1 Irena Veselková	Z	0	0P+2C	Z	Z
X2-NP-DS-20/21	Projekty Mgr. prezen ní DS od 2020/21 11XN1,12XN1, (see the list of groups below)	Min. cours. 4 Max. cours. 4	Min/Max 13/13			ZP
1S-NP-DS-V1-22/23	1. sem. Mgr. prezen ní DS výb r p edm tu od 2022/23 17DOPD,17TZND	Min. cours. 1 Max. cours. 1	Min/Max 4/4			Z
JZ-NP-DS-20/21	Jazyky Mgr. prezen ní DS od 2020/21 15J2F1,15J2I1, (see the list of groups below)	Min. cours. 4 Max. cours. 4	Min/Max 8/8			J

Number of semester: 2

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
22AMMD	Measuring Methods Applied to Transportation Michal Frydrýn, Drahomír Schmidt, Luboš Nouzovský, Zden k Svatý, Tomáš Mi unek Luboš Nouzovský Tomáš Mi unek (Gar.)	KZ	4	1P+3C	L	Z
15JBA2	Language - English 2 Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerová,	Z	2	0P+2C+10B	L	Z
12NAPI	Design and Maintenance of Transportation Structures Gabriela Sidorinová, Otakar Vacín	Z,ZK	4	2P+2C	L	Z
16PDP	Principles of Vehicle Design Jaroslav Machan, Jan Leistner, Filip Kotas, David Lehet Jaroslav Machan (Gar.)	ZK	2	2P+0C+8B	L	Z
12UMUP	Sustainable Mobility and Land - Use Planning Dagmar Ko árková, Václav Novotný Dagmar Ko árková (Gar.)	Z,ZK	5	2P+2C	L	ZP
12ZSUZ	Railway Stations and Centres Ond ej Trešl, Martin Jacura, Tomáš Javo ík	Z,ZK	3	2P+1C	L	Z
15JCZ2	Czech Language for Foreign Students 2 Irena Veselková	Z	0	0P+2C	L	Z
X2-NP-DS-20/21	Projekty Mgr. prezen ní DS od 2020/21 11XN1,12XN1, (see the list of groups below)	Min. cours. 4 Max. cours. 4	Min/Max 13/13			ZP
2S-NP-DS-V-20/21	2. sem. Mgr. prezen ní DS výb r p edm tu od 2020/21 12BED,18TEAM	Min. cours. 1 Max. cours.	Min/Max 4/4			Z
JZ-NP-DS-20/21	Jazyky Mgr. prezen ní DS od 2020/21 15J2F1,15J2I1, (see the list of groups below)	Min. cours. 4 Max. cours. 4	Min/Max 8/8			J
Y2-NP-DS-23/24	PVP-B Mgr. prezen ní DS od 2023/24 00Y2XN,17Y2AM, (see the list of groups below)	Min. cours. 3 Max. cours. 3	Min/Max 6/6			PV

Number of semester: 3

	Name of the course / Name of the group of courses					
Code	(in case of groups of courses the list of codes of their members)	Completion	Credits	Scope	Semester	Role
	Tutors, authors and guarantors (gar.)					
12DAZP	Transport and Environment Kristýna Neubergová, Tomáš Javo ík	Z,ZK	4	2P+1C	Z	Z
15JBA3	Language - English 3 Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerová,	Z	2	0P+2C+10B	Z	Z
11STS	Stochastic Systems Pavla Pecherková, Evženie Uglickich, Šárka Vorá ová, Natálie Blahitka, Michal Matowicki Pavla Pecherková Šárka Vorá ová (Gar.)	Z,ZK	4	2P+2C+14B	Z	ZP
12TEAP	Theory of Road Traffic Operation Zuzana arská, Vladimír Faltus Vladimír Faltus (Gar.)	Z,ZK	7	3P+2C	Z	Z
12VRZ	High Speed Rail Transport Lukáš Týta	KZ	3	2P+0C	Z	Z
15JCZ3	Czech Language for Foreign Students 3 Irena Veselková	Z		0P+2C	Z	Z
		Min. cours.				
	Brainkty Mar program of DC and 2020/24	4	Min/Max			
X2-NP-DS-20/21	Projekty Mgr. prezen ní DS od 2020/21 11XN1,12XN1, (see the list of groups below)	Max. cours.	13/13			ZP
		4	10,10			
		-				
		Min. cours.				
3S-NP-DS-V-21/22	3. sem. Mgr. prezen ní DS výb r p edm tu od 2021/22	1	Min/Max			7
33-NF-D3-V-Z 1/ZZ	12/DOS,16STK	Max. cours.	3/3			Z
		1				

JZ-NP-DS-20/21	Jazyky Mgr. prezen ní DS od 2020/21 15J2F1,15J2l1, (see the list of groups below)	Min. cours. 4 Max. cours. 4	Min/Max 8/8	J
Y2-NP-DS-23/24	PVP-B Mgr. prezen ní DS od 2023/24 00Y2XN,17Y2AM, (see the list of groups below)	Min. cours. 3 Max. cours. 3	Min/Max 6/6	PV

Number of semester: 4

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
15JBA4	Language - English 4 Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerová,	ZK	2	0P+2C+10B	L	Z
15JCZ4	Czech Language for Foreign Students 4 Irena Veselková	Z		0P+2C	L	Z
XD-NP-DS-21/22	DP Mgr. prezen ní DS od 2021/22 11XNDD,12XNDD, (see the list of groups below)	Min. cours. 1 Max. cours. 1	Min/Max 18/18			Z
X2-NP-DS-20/21	Projekty Mgr. prezen ní DS od 2020/21 11XN1,12XN1, (see the list of groups below)	Min. cours. 4 Max. cours. 4	Min/Max 13/13			ZP
JZ-NP-DS-20/21	Jazyky Mgr. prezen ní DS od 2020/21 15J2F1,15J2l1, (see the list of groups below)	Min. cours. 4 Max. cours. 4	Min/Max 8/8			J

List of groups of courses of this pass with the complete content of members of individual groups

Kód		Name of the group of group (for specification	courses and on see here o	codes of members of this r below the list of courses)	Com	pletion	Credit	s Scope	Semester	Role
1S-NP-DS	-V1-22/23			r p edm tu od 2022/23	Min.	cours. 1 . cours. 1	Min/Ma 4/4			z
17DOPD	Transporta	tion Planning and Mode	17TZND	Technology of Railway Transport				<u>'</u>		
2S-NP-D\$	6-V-20/21	2. sem. Mgr. prezei	n ní DS výb	r p edm tu od 2020/21		cours. 1 . cours. 1	Min/Ma 4/4	ıx		Z
12BED	Road Safe	ty Audit	18TEAM	Theoretical and Applied Mechanic						
3S-NP-DS	S-V-21/22	3. sem. Mgr. prezei	n ní DS výb	r p edm tu od 2021/22		cours. 1 . cours. 1	Min/Ma 3/3	ax		Z
12IDOS	Integrated	Transport Systems	16STK	Simulation and Testing of Vehicl				<u>'</u>		
JZ-NP-D	S-20/21	Jazyky Mg	ır. prezen ní	DS od 2020/21		cours. 4 . cours. 4	Min/M a 8/8	ax		J
15J2F1	Language	- French 1	15J2I1	Language - Italian 1		15J2N1		Language - G	erman 1	

15J2R1	Language	- Russian 1	15J2S1	Language - Spanish 1		15JBF2	L	.anguage - Fr	rench 2	
15JBI2	Language		15JBN2	Language - German 2		15JBR2	I .	anguage - R		
15JBS2	0 0	- Spanish 2	15JBF3	Language - French 3		15JBI3		anguage - Ita		
15JBN3		- German 3	15JBR3	Language - Russian 3		15JBS3		anguage - S _l		
15JBF4	Language		15JBI4	Language - Italian 4		15JBN4	L	anguage - G	erman 4	
15JBR4	Language	- Russian 4	15JBS4	Language - Spanish 4					1	1
X2-NP-DS	S-20/21	Projekty M	gr. prezen ní	DS od 2020/21		cours. 4 . cours. 4	Min/Ma 13/13	x		ZP
11XN1	Master Pro	ioct 1	12XN1	Master Project 1		14XN1	<u> </u>	_ //aster Projec	+ 1	
15XN1	Master Pro	•	16XN1	Master Project 1		17XN1		laster Projec		
18XN1	Master Pro	·	20XN1	Master Project 1		21XN1		Master Projec		
22XN1	Master Pro	•	23XN1	Master Project 1		11XN2		Master Projec		
12XN2	Master Pro	<u> </u>	14XN2	Master Project 2		15XN2		/ //aster Projec		
16XN2	Master Pro	oject 2	17XN2	Master Project 2		18XN2	N	Aaster Projec	t 2	
20XN2	Master Pro	ect 2	21XN2	Master Project 2		22XN2	N	Naster Projec	t 2	
23XN2	Master Pro	ject 2	11XN3	Master Project 3		12XN3	N	Aaster Projec	t 3	
14XN3	Master Pro	<u> </u>	15XN3	Master Project 3		16XN3		laster Projec		
17XN3	Master Pro	•	18XN3	Master Project 3		20XN3		Master Projec		
21XN3	Master Pro	<u> </u>	22XN3	Master Project 3		23XN3		Aaster Projec		
11XN4	Master Pro	•	12XN4	Master Project 4		14XN4		Master Projec		
15XN4	Master Pro	<u> </u>	16XN4	Master Project 4		17XN4		Master Projec		
18XN4 22XN4	Master Pro	<u> </u>	20XN4 23XN4	Master Project 4 Master Project 4		21XN4		Master Projec	l 4	
22/11/4	Iviasiei Fit	Ject 4	23/114	Master Project 4	B.41		1			1
					wiin.	cours.				
XD-NP-DS	S-21/22	DP Mgr.	prezen ní DS	S od 2021/22	Max	1 . cours. 1	Min/Ma 18/18	x		z
11XNDD	Master The	esis for study programm	12XNDD	Master Thesis for study programm		14XNDD	<u> </u>	laster Thesis	for study prog	ramm
15XNDD		esis for study programm	16XNDD	Master Thesis for study programm		17XNDD			for study prog	
IJANUU	I Master Till									
18XNDD 22XNDD	Master The	esis for study programm	20XNDD 23XNDD	Master Thesis for study programm Master Thesis for study programm		21XNDD			for study prog	
18XNDD	Master The	esis for study programm esis for study programm	20XNDD 23XNDD	Master Thesis for study programm	Min.	cours. 3 cours.		Master Thesis		
18XNDD 22XNDD Y2-NP-DS	Master The Master The	esis for study programm esis for study programm PVP-B Mg	20XNDD 23XNDD gr. prezen ní l	Master Thesis for study programm Master Thesis for study programm OS od 2023/24	Min.	cours. 3 . cours. 3	Min/Ma 6/6	Master Thesis	for study prog	gramm
18XNDD 22XNDD Y2-NP-DS 00Y2XN	Master The Master The S-23/24	esis for study programm esis for study programm PVP-B Mg icipation in a scient	20XNDD 23XNDD gr. prezen ní l	Master Thesis for study programm Master Thesis for study programm OS od 2023/24 Application of Marketing Tools i	Min.	cours. 3 cours. 12Y2BM	Min/Ma 6/6	Aaster Thesis X Safety on The		gramm
18XNDD 22XNDD Y2-NP-DS	Master The Master The	esis for study programm esis for study programm PVP-B Mg icipation in a scient	20XNDD 23XNDD gr. prezen ní l	Master Thesis for study programm Master Thesis for study programm OS od 2023/24	Min.	cours. 3 . cours. 3	Min/Ma 6/6	Master Thesis	for study prog	gramm
18XNDD 22XNDD Y2-NP-DS 00Y2XN 23Y2BP	Master The	esis for study programm esis for study programm PVP-B Mg icipation in a scient	20XNDD 23XNDD gr. prezen ní l 17Y2AM 21Y2BS	Master Thesis for study programm Master Thesis for study programm OS od 2023/24 Application of Marketing Tools i Unmanned aircraft systems 2	Min.	21XNDD cours. 3 . cours. 3 . 12Y2BM . 14Y2C1	Min/Ma 6/6	X X Safety on The	for study prog	pramm
18XNDD 22XNDD Y2-NP-DS 00Y2XN 23Y2BP 14Y2C2 12Y2DU 18Y2EM	Master The	PVP-B Mg icipation in a scient	20XNDD 23XNDD 23XNDD Ir. prezen ní l 17Y2AM 21Y2BS 14Y2CS 15Y2DN 16Y2EE	Master Thesis for study programm Master Thesis for study programm OS od 2023/24 Application of Marketing Tools i Unmanned aircraft systems 2 Sensitivity of Systems	Min.	21XNDD cours. 3 cours. 3 12Y2BM 14Y2C1 21Y2CR 18Y2DC 17Y2FM	Min/Ma 6/6	Alaster Thesis X Safety on The CATIA I CRM Dynamics of T	for study prog	PV es and
18XNDD 22XNDD Y2-NP-DS 00Y2XN 23Y2BP 14Y2C2 12Y2DU 18Y2EM 21Y2FM	Master The	PVP-B Mg icipation in a scient in the Context of Sust icroscopy pmpany Financial Manag	20XNDD 23XNDD 23XNDD Ir. prezen ní l 17Y2AM 21Y2BS 14Y2CS 15Y2DN 16Y2EE 23Y2FB	Master Thesis for study programm Master Thesis for study programm DS od 2023/24 Application of Marketing Tools i Unmanned aircraft systems 2 Sensitivity of Systems Transportation Psychology in Ger Emissions and Ergonomics of Vehi Physics for Security Branches	Min.	21XNDD cours. 3 cours. 3 12Y2BM 14Y2C1 21Y2CR 18Y2DC 17Y2FM 18Y2FZ	Min/Ma 6/6	Master Thesis Safety on The CATIA I CRM Dynamics of T Chysical found	Local Roads Transport Rout Jrban Mass Tradation of mate	PV es and anspor rials
18XNDD 22XNDD Y2-NP-DS 00Y2XN 23Y2BP 14Y2C2 12Y2DU 18Y2EM 21Y2FM 15Y2HS	Master The	PVP-B Mg icipation in a scient icroscopy pmpany Financial Manag spis for study programm	20XNDD 23XNDD 23XNDD 17. prezen ní l 17Y2AM 21Y2BS 14Y2CS 15Y2DN 16Y2EE 23Y2FB 16Y2HP	Master Thesis for study programm Master Thesis for study programm Master Thesis for study programm DS od 2023/24 Application of Marketing Tools i Unmanned aircraft systems 2 Sensitivity of Systems Transportation Psychology in Ger Emissions and Ergonomics of Vehi Physics for Security Branches Vehicle Hygiene	Min.	21XNDD cours. 3 cours. 3 12Y2BM 14Y2C1 21Y2CR 18Y2DC 17Y2FM 18Y2FZ 14Y2IS	Min/Ma 6/6	Aster Thesis Safety on The CATIA I CRM Dynamics of T Chysical foundatelligent Sys	Local Roads Transport Rout Jrban Mass Tradation of mate stems in Posta	PV es and anspor rials
18XNDD 22XNDD Y2-NP-DS 00Y2XN 23Y2BP 14Y2C2 12Y2DU 18Y2EM 21Y2FM 15Y2HS 12Y2IS	Master The	PVP-B Mg icipation in a scient lass in the Context of Sust icroscopy ompany Financial Manag sport History works	20XNDD 23XNDD 23XNDD 17. prezen ní l 17Y2AM 21Y2BS 14Y2CS 15Y2DN 16Y2EE 23Y2FB 16Y2HP 14Y2JM	Master Thesis for study programm Master Thesis for study programm Master Thesis for study programm DS od 2023/24 Application of Marketing Tools i Unmanned aircraft systems 2 Sensitivity of Systems Transportation Psychology in Ger Emissions and Ergonomics of Vehi Physics for Security Branches Vehicle Hygiene One-Chip Controllers	Min.	21XNDD cours. 3 cours. 3 12Y2BM 14Y2C1 21Y2CR 18Y2DC 17Y2FM 18Y2FZ 14Y2IS 15Y2JH	Min/Ma 6/6	Aster Thesis Safety on The CATIA I CRM Dynamics of T Cinancing in L Chysical found ntelligent Sys ob Hunting ir	Local Roads Transport Rout Jrban Mass Tradation of mate stems in Posta in English	PV es and anspor rials I Se
18XNDD 22XNDD Y2-NP-DS 00Y2XN 23Y2BP 14Y2C2 12Y2DU 18Y2EM 21Y2FM 15Y2HS 12Y2IS 14Y2KI	Master The	PVP-B Mg icipation in a scient lass in the Context of Sust icroscopy ompany Financial Manag sport History works estment in Transporta	20XNDD 23XNDD 23XNDD 17. prezen ní l 17Y2AM 21Y2BS 14Y2CS 15Y2DN 16Y2EE 23Y2FB 16Y2HP 14Y2JM 16Y2KV	Master Thesis for study programm Master Thesis for study programm Master Thesis for study programm DS od 2023/24 Application of Marketing Tools i Unmanned aircraft systems 2 Sensitivity of Systems Transportation Psychology in Ger Emissions and Ergonomics of Vehi Physics for Security Branches Vehicle Hygiene One-Chip Controllers Car Body Design	Min.	21XNDD cours. 3 cours. 3 12Y2BM 14Y2C1 21Y2CR 18Y2DC 17Y2FM 18Y2FZ 14Y2IS 15Y2JH 12Y2KS	Min/Ma 6/6	Aaster Thesis Safety on The CATIA I CRM Dynamics of T Chysical found Intelligent Sys Ob Hunting ir Rail Transport	Local Roads Transport Rout Jrban Mass Tradation of mate stems in Posta in English in Settlement	PV es and anspor rials I Se s an
18XNDD 22XNDD 22XNDD Y2-NP-DS 00Y2XN 23Y2BP 14Y2C2 12Y2DU 18Y2EM 21Y2FM 15Y2HS 12Y2IS 14Y2KI 12Y2KE	Master The	PVP-B Mg icipation in a scient icroscopy ompany Financial Manag sport History works escology	20XNDD 23XNDD 23XNDD 17. prezen ní l 17Y2AM 21Y2BS 14Y2CS 15Y2DN 16Y2EE 23Y2FB 16Y2HP 14Y2JM 16Y2KV 21Y2LS	Master Thesis for study programm Master Thesis for study programm Master Thesis for study programm DS od 2023/24 Application of Marketing Tools i Unmanned aircraft systems 2 Sensitivity of Systems Transportation Psychology in Ger Emissions and Ergonomics of Vehi Physics for Security Branches Vehicle Hygiene One-Chip Controllers Car Body Design Air Traffic Services	Min.	21XNDD cours. 3 cours. 3 12Y2BM 14Y2C1 21Y2CR 18Y2DC 17Y2FM 18Y2FZ 14Y2IS 15Y2JH 12Y2KS 11Y2LG	Min/Ma 6/6	Aster Thesis Safety on The CATIA I CRM Dynamics of Trinancing in L Physical foundatelligent Sys ob Hunting ir Rail Transport Logics of Eng	Local Roads Transport Rout Jrban Mass Tradation of mate stems in Posta in English in Settlement ineer's Judger	PV es and anspor rials I Se s an
18XNDD 22XNDD 22XNDD Y2-NP-DS 00Y2XN 23Y2BP 14Y2C2 12Y2DU 18Y2EM 21Y2FM 15Y2HS 12Y2IS 14Y2KI 12Y2KE 23Y2MA	Master The	PVP-B Mg icipation in a scient lass in the Context of Sust icroscopy ompany Financial Manag sport History works estment in Transporta E Ecology sis and Management	20XNDD 23XNDD 23XNDD 17. prezen ní l 17Y2AM 21Y2BS 14Y2CS 15Y2DN 16Y2EE 23Y2FB 16Y2HP 14Y2JM 16Y2KV 21Y2LS 21Y2MQ	Master Thesis for study programm Master Thesis for study programm Master Thesis for study programm DS od 2023/24 Application of Marketing Tools i Unmanned aircraft systems 2 Sensitivity of Systems Transportation Psychology in Ger Emissions and Ergonomics of Vehi Physics for Security Branches Vehicle Hygiene One-Chip Controllers Car Body Design Air Traffic Services Quality Management	Max	21XNDD cours. 3 cours. 3 12Y2BM 14Y2C1 21Y2CR 18Y2DC 17Y2FM 18Y2FZ 14Y2IS 15Y2JH 12Y2KS 11Y2LG 15Y2MS	Min/Ma 6/6 S C C C F F F II J F L	Safety on The CATIA I CRM Dynamics of Trinancing in Learning in Learning in Catific Trinancing in Catific Trin	Local Roads Transport Rout Jrban Mass Tradation of mate stems in Posta in English in Settlement ineer's Judger Managers	PV es and anspor rials I Se s an
18XNDD 22XNDD 22XNDD Y2-NP-DS 00Y2XN 23Y2BP 14Y2C2 12Y2DU 18Y2EM 21Y2FM 15Y2HS 12Y2IS 14Y2KI 12Y2KE 23Y2MA 21Y2MK	Master The	PVP-B Mg icipation in a scient lass in the Context of Sust icroscopy ompany Financial Manag sport History works estment in Transporta E Ecology sis and Management of Air Transport	20XNDD 23XNDD 23XNDD 17. prezen ní l 17Y2AM 21Y2BS 14Y2CS 15Y2DN 16Y2EE 23Y2FB 16Y2HP 14Y2JM 16Y2KV 21Y2LS 21Y2MQ 12Y2MH	Master Thesis for study programm Master Thesis for study programm Master Thesis for study programm DS od 2023/24 Application of Marketing Tools i Unmanned aircraft systems 2 Sensitivity of Systems Transportation Psychology in Ger . Emissions and Ergonomics of Vehi Physics for Security Branches Vehicle Hygiene One-Chip Controllers Car Body Design Air Traffic Services Quality Management Measurement and Modeling of Traffic	Max	21XNDD cours. 3 cours. 3 12Y2BM 14Y2C1 21Y2CR 18Y2DC 17Y2FM 18Y2FZ 14Y2IS 15Y2JH 12Y2KS 11Y2LG 15Y2MS 12Y2MI	Min/Ma 6/6	Aster Thesis Safety on The CATIA I CRM Dynamics of T Chysical found Intelligent Sys Ob Hunting ir Rail Transport Ogics of Eng Sociology for I Urban Engine	Local Roads Transport Rout Jrban Mass Tradation of mate stems in Posta in English in Settlement ineer's Judger Managers ering	es and anspor rials I Se s an nent
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List of courses of this pass:

Code	Name of the course	Completion	Credit
00Y2XN	Active participation in a scientific project, workshop, short-term trip abroad	KZ	2
11STS	Stochastic Systems	Z,ZK	4
The subject dea	Is with the problems of mathematical modelling of dynamical systems, estimation od these models and their utilization for prediction.	The results are illus	strated on
practical tra	ansportation tasks. Mathematical theory roots from probability and mathematical statistics and they use the methods of the Bayesian	probabilistic appro	ach.
11XN1	Master Project 1	Z	2
11XN2	Master Project 2	Z	2
11XN3	Master Project 3	Z	1
11XN4	Master Project 4	Z	8
11XNDD	Master Thesis for study programme DS	Z	18
11Y2LG	Logics of Engineer's Judgement	KZ	2
	of engineer's judgement, its propositional and predicative logical base. Solutions of logical tasks through the methods of truthfulness very very solution of technical tasks. Venn's diagram method. Logical basis for network design for the solution of technical tasks.	I	_
11Y2PM	Programming in MATLAB	KZ	2
To explain the pri	nciple of modelling and simulation, description of Matlab environment and its settings, optimization and program code debugging, dat Matlab.	a fitting and design	ning GUI i
12BED	Road Safety Audit	Z,ZK	4
Schedules of appli	cations of safety assessments (especially Road Safety Audit, Road Safety Inspection) during the process of preparations, and of the p	articular realization	
12DAZP	Transport and Environment	Z,ZK	4
his course aims t	he 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 measury	y is part a
12IDOS	Integrated Transport Systems	ZK	3
Reasons for build	ding of integrated transport systems, principle of integration, dividing of integration methods, traffic, infrastructure, technical, organizal	tional methods, into	egration o
	tariff, sales systems, information systems, marketing of system, examples of non-integration.		
12IKD	Rail Transport Infrastructure	Z,ZK	5
on-compensated	lateral acceleration, parameters eduction for transition curve and cant transition, curves without straight, track spacing change. Track details		Substructu
	design, slab track. Tram-train. Interoperability. Noise precautions. Railway line modernization for non-tilting and tilting trains		
12NAPI	Design and Maintenance of Transportation Structures	Z,ZK	4
	truction of cement-concrete pavements and their maintenance. Construction of bridge objects, examples and choice of bridge construction of tunnels.		onstructio
12TEAP	Theory of Road Traffic Operation	Z,ZK	7
•	ers and their measurement, acquisition and processing. Road capacity analysis. Theoretical foundations and applications of mathema iicroscopic traffic models. Theory of traffic management. Traffic light signals, roundabouts, coordination, public transport priority. Urbar		-
	Traffic excesses management. Road assessment and maintenance methods. Health risks assessment.		
12TKVP	Highway Engineering Materials	Z,ZK	4
The theory of roa	d construction - Material Aspects. The course emphasizes the development of road construction from the beginning of the 20th century	ry to the present, f	ocusing o
	materials, understanding the production and placing of asphalt mixtures.		
12UMUP	Sustainable Mobility and Land - Use Planning	Z,ZK	5
	- objectives and tasks, development over time. Land-use planning tools. SUMP. Territorial and transport planning context. Ways of urb		
ansport. Basic pr	inciples of the transport solution. The impact of transport on the size and shape of the city, on the development of the street and the s for pedestrian and bicycle transport. Suburbanization and transport. City economics.	quare and the road	is. Solutio
40\/D7		KZ	
12VRZ	High Speed Rail Transport y (HSR) transport characteristics and position in transportation system. Types / models of HSR systems, preparation of high speed rail	I .	an the Cze
	is. Non-adhesion HSR systems. City and region traffic service by HSR. HSR operating points. HSR worldwide network. HSR routing a of HSR track construction and layout track parameteres.		
12XN1	Master Project 1	Z	2
12XN2	Master Project 2	Z	2
12XN3	Master Project 3	Z	1
12XN4	Master Project 4	Z	8
12XNDD	Master Project 4 Master Thesis for study programme DS	Z	18
	• • •	KZ	
12Y2BM lassification of roa	Safety on The Local Roads ad accidents rates, social looses. Collision points, diagrams. Tools and methods for safer road transportation. Crossroads from the point		2 sychologic
	right of way. Roundabouts. Pedestrian transport, cyclists. Traffic lights coordination. Transport control and regulation.	T	1
12Y2DU	Transport in the Context of Sustainability	KZ	2
efinitions of susta	ainable transport, historical context, development in our country and in the world. Sustainable development and sustainable transport.	Demand for transpo	rt. Inducti
	of transport. Examples of sustainable transport. Biofuels. Electromobility. New trends in transport. Practical examples.		
12Y2IS	Urban Networks	KZ	2
he importance ar	nd the position of UN as public and technical infrastructure / utilities, metodology of the UN master planning, of UN design, UN coordi	nation, UN installa	tion and l
	operation (basic technical standards of UN, trenchless technologies for UN).		
12Y2KE	Landscape Ecology	KZ	2

12Y2KS	Rail Transport in Settlements and Regions	KZ	2
	d development of railway infrastructure in Czech Republic. Arrangement of railway networks and junctions. Suburban railway service ttion of metro systems. Network configuration and operation of tram systems. Special thematic lectures (rail transport in selected cou	•	iration and
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	0 ,	tic methods,
12Y2MH	Measurement and Modeling of Traffic Noise	KZ	2
Theoretical introdu	iction to noise from traffic. Noise from rail transport. Noise from road traffic. Measurement and calculation of noise from rail traffic.	easurement and ca	alculation of
12Y2MI	Urban Engineering	KZ	2
	aching aming on utilities storage in area, coordination engineering activities in area, arrangement of public space, concepement of p	oublic spaces.	1
12Y2MZ	Modernization of Railway Lines and Stations	KZ	2
•	ng. AGC and AGTC Agreement. AGC and AGTC railway network. Principles of modernization (conceptual papers, definitions of basic conceptual papers, definitions of basic conceptual papers, definitions of basic conceptual papers, definitions of papers and substructure on ungraded lines. Periodic papers of railway etations. Principles of papers and papers and papers and papers and papers and papers.	• •	
rrack geometrical	characteristics on modernized railway lines. Superstructure and substructure on upgraded lines. Designing of railway stations. Bridg and realization of projects. Technical description of the tranzit corridors.	es and tunners. De	evelopment
12Y2NS	Shared Space Design	KZ	2
	ts to the concept of integrated use of public spaces by sharing space with all users. Active promotion of settlements and sustainable	1	lic space of
towns and cities.	Analysis of implemented foreign examples, principles of zone design in the context of legal and technical requirements. Linking traffic	engineering, urba	n planning
12Y2PV	and architecture in the process of designing quality public spaces.	V7	
	Public transport priority the backbone of sustainable mobility. Public transport priority (PTP) in strategic documents. PTP in the Czech Republic and abroad. To	KZ	2 ures Design
	Relationship between Basics of public transport stops and stations design. PTP measures and evaluation of their operation. Econom		_
	PTP. The process of preparing PTP measures.		
12Y2RD	Realization of Transport Buildings	KZ	2
· •	Types. Project Documentation Types. Building Code. Land Permission and Building Permission Process. Building Process. Project Eco	· · · · · · · · · · · · · · · · · · ·	
12Y2ZK	Traffic Calming	KZ	2
Principles of traffi	ic calming. Solution of road network organization. Urban road layouts. Psychological and physical obstacles (measures of traffic calm Traffic calming measures in crossroads. Pedestrian zones. Residential streets and zones.	ning) and their corr	ibinations.
12ZSUZ	Railway Stations and Centres	Z,ZK	3
	enger transport. Platform construction. Access roads to platforms. Modification of railway stations according to the TSI PRM. Station I	1	_
	of station heads for current ride. Junction stations. Crossing stations. Passenger stations. Moving stations. Public transport term		
14GISS	Geographical Information Systems	KZ	2
	n of saving format of space-oriented information land-survey and cartography minimum basic tasks of spatial operations principles of		1
14XN1 14XN2	Master Project 1	Z Z	2
14ANZ	Master Project 2		
4.4VN2	Moster Project 2	7	1
14XN3	Master Project 3	Z	1
14XN4	Master Project 4	Z	8
14XN4 14XNDD	Master Project 4 Master Thesis for study programme DS	Z Z	8
14XN4 14XNDD 14Y2C1	Master Project 4 Master Thesis for study programme DS CATIA I	Z Z KZ	8 18 2
14XN4 14XNDD 14Y2C1	Master Project 4 Master Thesis for study programme DS	Z Z KZ	8 18 2
14XN4 14XNDD 14Y2C1	Master Project 4 Master Thesis for study programme DS CATIA I Orking with CATIA, making basic parts and bodies. Making 2D sketches, geometric stucture, parametric linking, making adaptive modes.	Z Z KZ	8 18 2
14XN4 14XNDD 14Y2C1 Fundaments of wo	Master Project 4 Master Thesis for study programme DS CATIA I orking with CATIA, making basic parts and bodies. Making 2D sketches, geometric stucture, parametric linking, making adaptive mode and export of made parts and bodies. Making assemble and visualization. CATIA II c course. Modeling compound bodies. Possibility of enumeration, comunications with other systems. Surface x solid bodies. Kinematic	Z Z KZ dels from 2D sketc	8 18 2 hes. Import
14XN4 14XNDD 14Y2C1 Fundaments of wo 14Y2C2 Extension of basic	Master Project 4 Master Thesis for study programme DS CATIA I orking with CATIA, making basic parts and bodies. Making 2D sketches, geometric stucture, parametric linking, making adaptive moderand and export of made parts and bodies. Making assemble and visualization. CATIA II c course. Modeling compound bodies. Possibility of enumeration, comunications with other systems. Surface x solid bodies. Kinematical and project cooperation. Outputs of projects.	Z Z KZ dels from 2D sketc KZ c mechanism. Proj	8 18 2 hes. Import 2 ect making
14XN4 14XNDD 14Y2C1 Fundaments of wo 14Y2C2 Extension of basic	Master Project 4 Master Thesis for study programme DS CATIA I Orking with CATIA, making basic parts and bodies. Making 2D sketches, geometric stucture, parametric linking, making adaptive mode and export of made parts and bodies. Making assemble and visualization. CATIA II c course. Modeling compound bodies. Possibility of enumeration, comunications with other systems. Surface x solid bodies. Kinematical and project cooperation. Outputs of projects. Sensitivity of Systems	Z Z KZ dels from 2D sketc KZ c mechanism. Proj	8 18 2 hes. Import 2 ect making 2
14XN4 14XNDD 14Y2C1 Fundaments of wo 14Y2C2 Extension of basic	Master Project 4 Master Thesis for study programme DS CATIA I orking with CATIA, making basic parts and bodies. Making 2D sketches, geometric stucture, parametric linking, making adaptive moderand and export of made parts and bodies. Making assemble and visualization. CATIA II c course. Modeling compound bodies. Possibility of enumeration, comunications with other systems. Surface x solid bodies. Kinematical and project cooperation. Outputs of projects.	Z Z KZ dels from 2D sketc KZ c mechanism. Proj	8 18 2 hes. Import 2 ect making 2
14XN4 14XNDD 14Y2C1 Fundaments of wo 14Y2C2 Extension of basic	Master Project 4 Master Thesis for study programme DS CATIA I Orking with CATIA, making basic parts and bodies. Making 2D sketches, geometric stucture, parametric linking, making adaptive mode and export of made parts and bodies. Making assemble and visualization. CATIA II c course. Modeling compound bodies. Possibility of enumeration, comunications with other systems. Surface x solid bodies. Kinematic and project cooperation. Outputs of projects. Sensitivity of Systems s with defined reliability. The impact of changing parameters and subsystems within a system. System sensitivity computing, definition	Z Z KZ dels from 2D sketc KZ c mechanism. Proj	8 18 2 hes. Import 2 ect making 2
14XN4 14XNDD 14Y2C1 Fundaments of wo 14Y2C2 Extension of basic 14Y2CS Design of system 14Y2IS The use of informa	Master Project 4 Master Thesis for study programme DS CATIA I orking with CATIA, making basic parts and bodies. Making 2D sketches, geometric stucture, parametric linking, making adaptive mode and export of made parts and bodies. Making assemble and visualization. CATIA II course. Modeling compound bodies. Possibility of enumeration, comunications with other systems. Surface x solid bodies. Kinematic and project cooperation. Outputs of projects. Sensitivity of Systems s with defined reliability. The impact of changing parameters and subsystems within a system. System sensitivity computing, definition matrices and their usability in system design. Intelligent Systems in Postal Services ation systems in the postal services (ITIS, and POST, T + T, PS, KMP, DS), application of information technology in the processing of	Z Z KZ dels from 2D sketc KZ c mechanism. Proj KZ on of sensitivity fun KZ f mail processing n	8 18 2 hes. Import 2 ect making 2 ctions and 2 odes in the
14XN4 14XNDD 14Y2C1 Fundaments of wo 14Y2C2 Extension of basic 14Y2CS Design of system 14Y2IS The use of informa	Master Project 4 Master Thesis for study programme DS CATIA I orking with CATIA, making basic parts and bodies. Making 2D sketches, geometric stucture, parametric linking, making adaptive mode and export of made parts and bodies. Making assemble and visualization. CATIA II course. Modeling compound bodies. Possibility of enumeration, comunications with other systems. Surface x solid bodies. Kinematic and project cooperation. Outputs of projects. Sensitivity of Systems s with defined reliability. The impact of changing parameters and subsystems within a system. System sensitivity computing, definition matrices and their usability in system design. Intelligent Systems in Postal Services ation systems in the postal services (ITIS, and POST, T + T, PS, KMP, DS), application of information technology in the processing of mizing logistics processes in the post. The appreciation of the real implementation of the Czech post in operation both in lectures and in	Z Z KZ dels from 2D sketc KZ c mechanism. Proj KZ on of sensitivity fun KZ f mail processing n	8 18 2 hes. Import 2 ect making 2 ctions and 2 odes in the
14XN4 14XNDD 14Y2C1 Fundaments of wo 14Y2C2 Extension of basic 14Y2CS Design of system 14Y2IS The use of information postal network, opti	Master Project 4 Master Thesis for study programme DS CATIA I orking with CATIA, making basic parts and bodies. Making 2D sketches, geometric stucture, parametric linking, making adaptive mode and export of made parts and bodies. Making assemble and visualization. CATIA II course. Modeling compound bodies. Possibility of enumeration, comunications with other systems. Surface x solid bodies. Kinematic and project cooperation. Outputs of projects. Sensitivity of Systems s with defined reliability. The impact of changing parameters and subsystems within a system. System sensitivity computing, definition matrices and their usability in system design. Intelligent Systems in Postal Services ation systems in the postal services (ITIS, and POST, T + T, PS, KMP, DS), application of information technology in the processing of mizing logistics processes in the post. The appreciation of the real implementation of the Czech post in operation both in lectures and in desk.	Z Z KZ dels from 2D sketc KZ c mechanism. Proj KZ on of sensitivity fun KZ f mail processing non the framework of	8 18 2 hes. Import 2 ect making 2 ctions and 2 odes in the the practical
14XN4 14XNDD 14Y2C1 Fundaments of wo 14Y2C2 Extension of basic 14Y2CS Design of system 14Y2IS The use of information postal network, opti	Master Project 4 Master Thesis for study programme DS CATIA I orking with CATIA, making basic parts and bodies. Making 2D sketches, geometric stucture, parametric linking, making adaptive mode and export of made parts and bodies. Making assemble and visualization. CATIA II course. Modeling compound bodies. Possibility of enumeration, comunications with other systems. Surface x solid bodies. Kinematic and project cooperation. Outputs of projects. Sensitivity of Systems s with defined reliability. The impact of changing parameters and subsystems within a system. System sensitivity computing, definition matrices and their usability in system design. Intelligent Systems in Postal Services ation systems in the postal services (ITIS, and POST, T + T, PS, KMP, DS), application of information technology in the processing of mizing logistics processes in the post. The appreciation of the real implementation of the Czech post in operation both in lectures and in desk. One-Chip Controllers	Z Z KZ dels from 2D sketc KZ c mechanism. Proj KZ on of sensitivity fun KZ f mail processing non the framework of	8 18 2 hes. Import 2 ect making 2 ctions and 2 odes in the the practical
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14XN4 14XNDD 14Y2C1 Fundaments of work 14Y2C2 Extension of basic 14Y2CS Design of system 14Y2IS The use of information postal network, option of the system	Master Project 4 Master Thesis for study programme DS CATIA I Orking with CATIA, making basic parts and bodies. Making 2D sketches, geometric stucture, parametric linking, making adaptive more and export of made parts and bodies. Making assemble and visualization. CATIA II course. Modeling compound bodies. Possibility of enumeration, comunications with other systems. Surface x solid bodies. Kinematic and project cooperation. Outputs of projects. Sensitivity of Systems s with defined reliability. The impact of changing parameters and subsystems within a system. System sensitivity computing, definition matrices and their usability in system design. Intelligent Systems in Postal Services ation systems in the postal services (ITIS, and POST, T + T, PS, KMP, DS), application of information technology in the processing of mizing logistics processes in the post. The appreciation of the real implementation of the Czech post in operation both in lectures and in desk. One-Chip Controllers Follers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed Capital Investment in Transportation and Telecommunications Financial market, investment desicion making - long term goals and investment strategies, long term financing Object Oriented Programming in Transport apsulation, inheritance, polymorphism, templates, retyping, stream, exceptions, repository, collections, virtual methods and classes. from microscopic simulation system, discrete event simulation, celular automata simulation and virtual life area. CAD Interface Programming Ointerface 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 tealled usage of transport information systems, e.g. EFC, ePurse and transport check-in systems for public transport with f	Z Z Z KZ dels from 2D sketc KZ c mechanism. Proj KZ on of sensitivity fun KZ f mail processing n n the framework of KZ with the aid of AVF KZ Problem cases wil KZ ds), dialogues, interior cases wil KZ crchitecture of this sincluded lectures a KZ streams, method a	8 18 2 hes. Import 2 ect making 2 ctions and 2 odes in the the practical 2 R chips. 2 be chosen 2 erfaces, and 2 system and and visits. 2 and operator

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14Y2UI His	Artificial Intelligence Artificial intelligence, knowledge, its representation including frames, state space search, constraints, genetic algorithms, mac	KZ hine learning.	2
15J2A1	Language - English 1	Z	2
15J2F1	resentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work of the production of	engagement.	2
	Language - French 1 ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,		1
	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec language of management.		_
15J2l1	Language - Italian 1	Z	2
	ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec 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, ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec language of management.		_
15J2R1	Language - Russian 1	Z	2
	ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,		
	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec language of management.		
15J2S1	Language - Spanish 1 ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	Z feedback skills s	2 ummarising
	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec		U
15JBA2	language of management. Language - English 2	Z	2
	Language - English 2 resentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work	_	4
15JBA3	Language - English 3	Z	2
Presentation Skill	ls - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Opt FCE, CAE.	ional courses for	certificates
15JBA4	Language - English 4	ZK	2
Presentation Skill	ls - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Opt FCE, CAE.	tional courses for	certificates
15JBF2	Language - French 2	Z	2
	ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec language of management.		_
15JBF3	Language - French 3	Z	2
-	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lad communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work values features. Practice of oral and written presentation.		_
15JBF4	Language - French 4	ZK	2
-	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of led communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work values features. Practice of oral and written presentation.		_
15JBI2	Language - Italian 2	Z	2
Grammatical Struc	ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec		ū
45 IDIO	language of management.	Z	
15JBI3 Grammar and styli	Language - Italian 3 istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		2 knowledge
	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v features. Practice of oral and written presentation.		_
15JBI4	Language - Italian 4	ZK	2
•	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lad communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work values features. Practice of oral and written presentation.		•
15JBN2	Language - German 2	Z	2
Grammatical Struc	ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec language of management.		ummarising
15JBN3	Language - German 3	Z	2
-	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lad communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work was features. Practice of oral and written presentation.		_
15JBN4	Language - German 4	ZK	2
Grammar and styli	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la dommunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w	anguage structure	knowledge
	features. Practice of oral and written presentation.		

15JBR2			
TOODINE	Language - Russian 2	Z	2
	ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,		
chnical text cont	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tecl	nnical registers a	nd their u
	language of management.		
15JBR3	Language - Russian 3	Z	2
rammar and styl	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la	nguage structure	knowled
nd perceptive an	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w	rith (professional) text and
	features. Practice of oral and written presentation.		
15JBR4	Language - Russian 4	ZK	2
Frammar and styl	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la	nguage structure	knowled
nd perceptive an	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w	ith (professional) text and
	features. Practice of oral and written presentation.		
15JBS2	Language - Spanish 2	Z	2
	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	-	_
	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tecl		
	language of management.	· ·	
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		1
=	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w		
a po. cop to a	features. Practice of oral and written presentation.	(p. 0.000.0a.	, toxt and
15JBS4	Language - Spanish 4	ZK	2
	Lariguage - Spanish 4 istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		_
	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w		
nd perceptive an	features. Practice of oral and written presentation.	ntii (prolessional) text and
45 1074		7	1 0
15JCZ1	Czech Language for Foreign Students 1	Z	0
	es of Czech language, common communication situations, study, work, leisure time activities, introduction of myself, phonetics of Czec		_
15JCZ2	Czech Language for Foreign Students 2	Z	0
	es of Czech language, common communication situations, study, work, leisure time activities, introduction of myself, phonetics of Czec		ng skills.
15JCZ3	Czech Language for Foreign Students 3	Z	
	Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology.		
15JCZ4	Czech Language for Foreign Students 4	Z	
	Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology.		
15XN1	Master Project 1	Z	2
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15YN2	Master Project 2	7	2
15XN2	Master Project 2	Z	2
15XN3	Master Project 3	Z	1
15XN3 15XN4	Master Project 3 Master Project 4	Z Z	1 8
15XN3	Master Project 3	Z Z Z	1
15XN3 15XN4	Master Project 3 Master Project 4	Z Z	1 8
15XN3 15XN4 15XNDD 15Y2DN	Master Project 3 Master Project 4 Master Thesis for study programme DS	Z Z Z KZ	1 8 18 2
15XN3 15XN4 15XNDD 15Y2DN	Master Project 3 Master Project 4 Master Thesis for study programme DS Transportation Psychology in German Speaking Countries	Z Z Z KZ	1 8 18 2
15XN3 15XN4 15XNDD 15Y2DN	Master Project 3 Master Project 4 Master Thesis for study programme DS Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, getting	Z Z Z KZ	1 8 18 2 nce, childro
15XN3 15XN4 15XNDD 15Y2DN ntroduction into b	Master Project 3 Master Project 4 Master Thesis for study programme DS Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, gettir in traffic, traffic accident, traffic psychology in the internet etc.)	Z Z Z KZ ng of driving licer	1 8 18 2 2 ace, childr
15XN3 15XN4 15XNDD 15Y2DN ntroduction into b 15Y2HS Roads and road tr	Master Project 3 Master Project 4 Master Thesis for study programme DS Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, gettir in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History	Z Z KZ ng of driving licer KZ ransport develop	1 8 18 2 ace, childred
15XN3 15XN4 15XNDD 15Y2DN ntroduction into b 15Y2HS Roads and road tr	Master Project 3 Master Project 4 Master Thesis for study programme DS Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, gettir in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History affic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road traffic.	Z Z KZ ng of driving licer KZ ransport develop	1 8 18 2 ace, childred
15XN3 15XN4 15XNDD 15Y2DN ntroduction into b 15Y2HS coads and road tr st part of 20th ce	Master Project 3 Master Project 4 Master Thesis for study programme DS Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, gettir in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History affic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road trury. Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of road History of road intercections, bridges and traffic control, development of road signs.	Z Z KZ ng of driving licer KZ ransport develop d travelling in mo	1 8 18 2 2 acce, childred 2 ment duri odern periodern pe
15XN3 15XN4 15XNDD 15Y2DN ntroduction into b 15Y2HS toads and road tr st part of 20th ce	Master Project 3 Master Project 4 Master Thesis for study programme DS Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, gettir in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History affic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road traffic or troad civil engineering. Development of road History of road intercections, bridges and traffic control, development of road signs. Job Hunting in English	Z Z KZ ng of driving licer KZ ransport develop d travelling in mo	1 8 18 2 2 1cce, childr
15XN3 15XN4 15XNDD 15Y2DN ntroduction into b 15Y2HS toads and road tr st part of 20th ce 15Y2JH The course provice	Master Project 3 Master Project 4 Master Thesis for study programme DS Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, gettir in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History affic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road traffic road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of road History of road intercections, bridges and traffic control, development of road signs. Job Hunting in English les a practical guide to applying for a job in English. The interview process is mapped out, with the course including skills practise for a	Z Z KZ ng of driving licer KZ ransport develop d travelling in mo KZ	1 8 8 18 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
15XN3 15XN4 15XNDD 15Y2DN 15Y2HS toads and road tr st part of 20th ce 15Y2JH The course provicincludii	Master Project 3 Master Project 4 Master Thesis for study programme DS Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, gettir in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History affic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road to the fittery. Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of road History of road intercections, bridges and traffic control, development of road signs. Job Hunting in English les a practical guide to applying for a job in English. The interview process is mapped out, with the course including skills practise for an ap specifics for job-hunting in English. Students will also be introduced to the English vocabulary and phraseology necessary for a succession of the students will also be introduced to the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of	Z Z KZ ng of driving licer KZ ransport develop d travelling in mo KZ all the stages of to	1 8 18 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
15XN3 15XN4 15XNDD 15Y2DN 15Y2HS toads and road trest part of 20th ce 15Y2JH The course provice includit 15Y2MS	Master Project 3 Master Project 4 Master Thesis for study programme DS Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, gettir in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History affic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road to the fittery. Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of road History of road intercections, bridges and traffic control, development of road signs. Job Hunting in English les a practical guide to applying for a job in English. The interview process is mapped out, with the course including skills practise for an appecifics for job-hunting in English. Students will also be introduced to the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology nec	Z Z Z KZ ng of driving licer KZ ransport develop d travelling in mo KZ all the stages of toccessful interview KZ	1 8 18 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
15XN3 15XN4 15XNDD 15Y2DN 15Y2HS toads and road trest part of 20th ce 15Y2JH The course provicincludit 15Y2MS Sociological app	Master Project 3 Master Project 4 Master Thesis for study programme DS Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, gettir in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History affic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road traffic in the Ancient Age, corridors of main mediveal pathways. Beginning of modern road civil engineering. Development of road History of road intercections, bridges and traffic control, development of road signs. Job Hunting in English les a practical guide to applying for a job in English. The interview process is mapped out, with the course including skills practise for an ag specifics for job-hunting in English. Students will also be introduced to the English vocabulary and phraseology necessary for a successful of the English occabulary and phraseology necessary for a successful of the English occabulary and phraseology necessary for a successful of the English occabulary and phraseology necessary for a successful of the English occabulary and phraseology necessary for a successful of the English occabulary and phraseology necessary for a successful of the English occabulary and phraseology necessary for a successful of the English occabulary and phraseology necessary for a successful of the English occabulary and phraseology necessary for a successful of the English occabulary and phraseology necessary for a successful of the English occabulary and phraseology necessary for a successful of the English occabulary and phraseology necessary for a successful of the English occabulary and phraseology necessary for a successful of the English occabulary and phraseology necessary for a successful of the English occabulary and phraseology necessary for a successful of the English occabulary and phraseology necessary for a	Z Z KZ ng of driving licer KZ ransport develop d travelling in mo KZ all the stages of to ccessful interview KZ s culture and soc	1 8 18 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
15XN3 15XN4 15XNDD 15Y2DN 15Y2HS toads and road trest part of 20th ce 15Y2JH The course provice includit 15Y2MS Sociological app	Master Project 3 Master Project 4 Master Thesis for study programme DS Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, gettir in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History affic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road traffic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic on the modern period, acceleration of road traffic on trong thistory of road intercections, bridges and traffic control, development of road signs. Job Hunting in English les a practical guide to applying for a job in English. The interview process is mapped out, with the course including skills practise for an appecifics for job-hunting in English. Students will also be introduced to the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English occabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and phraseology necessary for a succession of the English vocabulary and ph	Z Z Z KZ ng of driving licer KZ ransport develop d travelling in mo KZ all the stages of to coessful interview KZ s culture and soc corporation.	1 8 18 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
15XN3 15XN4 15XNDD 15Y2DN 15Y2HS coads and road trest part of 20th ce 15Y2JH The course provice includit 15Y2MS Sociological app	Master Project 3 Master Project 4 Master Thesis for study programme DS Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, gettire in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History affic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road to the trury. Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of road History of road intercections, bridges and traffic control, development of road signs. Job Hunting in English less a practical guide to applying for a job in English. The interview process is mapped out, with the course including skills practise for an appecifics for job-hunting in English. Students will also be introduced to the English vocabulary and phraseology necessary for a successful of the supply o	Z Z Z KZ ng of driving licer KZ ransport develop d travelling in mo KZ all the stages of toccessful interview KZ s culture and soccorporation. KZ	1 8 18 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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15XN3 15XN4 15XNDD 15Y2DN 15Y2HS toads and road trest part of 20th ce 15Y2JH The course provice includit 15Y2MS Sociological app 15Y2OF Basic transports 15Y2OZ Health protection	Master Project 3 Master Project 4 Master Thesis for study programme DS Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, gettir in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History affic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road to tury. Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of road History of road intercections, bridges and traffic control, development of road signs. Job Hunting in English les a practical guide to applying for a job in English. The interview process is mapped out, with the course including skills practise for an appear of proposition of the english vocabulary and phraseology necessary for a success of the english vocabulary and phraseology necessary for a success of the english vocabulary and phraseology necessary for a success of the english vocabulary and phraseology necessary for a success of the english vocabulary and phraseology necessary for a success of the english vocabulary and phraseology necessary for a success of the english vocabulary and phraseology necessary for a success of the english vocabulary and phraseology necessary for a success of the english vocabulary and phraseology necessary for a success of the english vocabulary and phraseology necessary for a success of the english vocabulary and phraseology necessary for a success of the english vocabulary and phraseology necessary for a success of the english vocabulary and phraseology necessary for a success of the english vocabulary and phraseology necessary for a success of the english vocabulary and phraseology necessary for a success of the english vocabulary and phraseology necessary for a success of the english vocabulary and phraseology necessary for a success of the englis	Z Z Z KZ ng of driving licer KZ ransport develop d travelling in mo KZ all the stages of tocessful interview KZ s culture and soccorporation. KZ aking and writing KZ of legislation wi	1 1 8 18 2 2 19 19 19 19 19 19 19 19 19 19 19 19 19
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15XN3 15XN4 15XNDD 15Y2DN 15Y2DN 15Y2HS 10ads and road tr 15Y2JH The course provior includit 15Y2MS Sociological app 15Y2OF Basic transp 15Y2OZ Health protection	Master Project 3 Master Project 4 Master Thesis for study programme DS Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, gettir in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History affic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road to the truty. Development of road civil engineering. Development of road traffic control, development of road signs. Job Hunting in English les a practical guide to applying for a job in English. The interview process is mapped out, with the course including skills practise for any specifics for job-hunting in English. Students will also be introduced to the English vocabulary and phraseology necessary for a successive of the companies of the properties of the second of the past and present. Conditions before 1989 and after, current legislature, future prospects. Harmonisation members. Fundamental principles of health protection and support in selected EU countries. Practical Spanish for Transportation formunication skills, training of correct written expression of formal character, basic technical vocabulary, cultural specifics of the Second of the second of the properties of the second of the se	Z Z KZ RS of driving licer KZ Ransport developed travelling in moderate the stages of	1 1 8 18 2 2 19 19 19 19 19 19 19 19 19 19 19 19 19
15XN3 15XN4 15XNDD 15Y2DN 15Y2DN 15Y2HS 10ads and road tr 15Y2JH The course provice including 15Y2MS Sociological app 15Y2OF Basic transport 15Y2OZ Health protection 15Y2PD Development of	Master Project 3 Master Project 4 Master Thesis for study programme DS Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, gettir in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History affic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road the truty. Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of road History of road intercections, bridges and traffic control, development of road signs. Job Hunting in English les a practical guide to applying for a job in English. The interview process is mapped out, with the course including skills practise for an agreeifics for job-hunting in English. Students will also be introduced to the English vocabulary and phraseology necessary for a sucception of properation. Corporation and its organization. Corporation and its running - human role and communication. Corporation and its organization. Corporation and its running - human role and communication. Corporation and succeptions are properly and properly an	Z Z Z KZ ng of driving licer KZ ransport develop d travelling in mo KZ all the stages of t excessful interview KZ s culture and soc corporation. KZ aking and writing KZ of legislation wi KZ canish speaking	1 1 8 8 18 2 2 19 19 19 19 19 19 19 19 19 19 19 19 19
15XN3 15XN4 15XNDD 15Y2DN 15Y2DN 15Y2HS 10ads and road tr 15Y2JH The course provice including 15Y2MS Sociological app 15Y2OF Basic transport 15Y2OZ Health protection 15Y2PD Development of	Master Project 3 Master Project 4 Master Thesis for study programme DS Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, gettir in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History affic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road to thury. Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of road History of road intercections, bridges and traffic control, development of road signs. Job Hunting in English les a practical guide to applying for a job in English. The interview process is mapped out, with the course including skills practise for any specifics for job-hunting in English. Students will also be introduced to the English vocabulary and phraseology necessary for a sucception of the english vocabulary and phraseology necessary for a sucception of the english vocabulary and phraseology necessary for a sucception of the english vocabulary and phraseology necessary for a sucception of the english vocabulary and phraseology necessary for a sucception of the english vocabulary and phraseology necessary for a sucception of the english vocabulary and phraseology necessary for a sucception of the english vocabulary and phraseology necessary for a sucception of the english vocabulary and phraseology necessary for a sucception of the english vocabulary and phraseology necessary for a sucception of the english vocabulary and phraseology necessary for a sucception of the english vocabulary and phraseology necessary for a sucception of the english vocabulary and phraseology necessary for a sucception of the english vocabulary and phraseology of transportation and transportation and transportation in free market economy. Corporation and telecommunications terminology. Special focus on	Z Z Z KZ ng of driving licer KZ ransport develop d travelling in mo KZ all the stages of t excessful interview KZ s culture and soc corporation. KZ aking and writing KZ of legislation wi KZ canish speaking	1 1 8 8 18 2 2 19 19 19 19 19 19 19 19 19 19 19 19 19
15XN3 15XN4 15XNDD 15Y2DN 15Y2DN 15Y2HS 15Y2HS 15Y2HS 15Y2JH 15Y2JH 15Y2US 15Y2	Master Project 3 Master Project 4 Master Thesis for study programme DS Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, gettir in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History affic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road trury. Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of road History of road intercections, bridges and traffic control, development of road signs. Job Hunting in English les a practical guide to applying for a job in English. The interview process is mapped out, with the course including skills practise for a gespecifics for job-hunting in English. Students will also be introduced to the English vocabulary and phraseology necessary for a suc Sociology for Managers roach to a corporation. Corporation and its organization. Corporation and its running - human role and communication. Corporation among the market economy. Corporate directorship, work groups, adaptation, stife, different roles and positions in the summan's work position in free market economy. Corporate directorship, work groups, adaptation, stife, different roles and positions in the summan's work position in free market economy. Corporate directorship, work groups, adaptation, stife, different roles and positions in the summan's work position in free market economy. Corporate directorship, work groups, adaptation, stife, different roles and positions in the summan's work position in free market economy. Corporate directorship, work groups, adaptation, stife, different roles and positions in the summan's work position in free market economy. Corporate directorship, work groups, adaptation, stife, different roles and positions in the summan's work position in free market economy. Corpo	Z Z Z KZ ng of driving licer KZ ransport develop d travelling in mo KZ all the stages of t excessful interview KZ s culture and soc corporation. KZ aking and writing KZ of legislation wi KZ canish speaking	1 1 8 8 18 2 2 19 19 19 19 19 19 19 19 19 19 19 19 19
15XN3 15XN4 15XNDD 15Y2DN 15Y2HS Roads and road tr st part of 20th ce 15Y2JH The course provic includit 15Y2MS Sociological app H 15Y2OF Basic transp 15Y2OZ Health protection 15Y2PD Development of 15Y2PT the nutrition policy	Master Project 3 Master Project 4 Master Thesis for study programme DS Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, gettir in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History affic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road thury. Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of road thury. Development of road intercections, bridges and traffic control, development of road signs. Job Hunting in English les a practical guide to applying for a job in English. The interview process is mapped out, with the course including skills practise for any specifics for job-hunting in English. Students will also be introduced to the English vocabulary and phraseology necessary for a suc Sociology for Managers roach to a corporation. Corporation and its organization. Corporation and its running - human role and communication. Corporation and swork position in free market economy. Corporate directorship, work groups, adaptation, strife, different roles and positions in Specialised French for Transportation and Telecommunications ortation (public transport, railway, air, road and ship transport) and telecommunications terminology. Special focus on independent spe Health Protection in Transportation and EU in transportation in CR in the past and present. Conditions before 1989 and after, current legislature, future prospects. Harmonisation members. Fundamental principles of health protection and support in selected EU countries. Practical Spanish for Transportation communication skills, training of correct written expression of formal character, basic technical vocabulary, cultural specifics of the Spanish for Transportation Interaction transportation and foodstuffs. The health	Z Z Z KZ ng of driving licer KZ ransport develop d travelling in mo KZ all the stages of tecessful interview KZ sculture and soccorporation. KZ aking and writing KZ of legislation with the the the the the the the the the t	1 1 8 8 18 2 2 10 10 10 10 10 10 10 10 10 10 10 10 10
15XN3 15XN4 15XNDD 15Y2DN 15Y2HS Roads and road tr st part of 20th ce 15Y2JH The course provic includit 15Y2MS Sociological app H 15Y2OF Basic transp 15Y2OZ Health protection 15Y2PD Development of 15Y2PT the nutrition policy	Master Project 3 Master Project 4 Master Thesis for study programme DS Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, gettir in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History affic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road thury. Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of roa History of road intercections, bridges and traffic control, development of road signs. Job Hunting in English les a practical guide to applying for a job in English. The interview process is mapped out, with the course including skills practise for any specifics for job-hunting in English. Students will also be introduced to the English vocabulary and phraseology necessary for a such to a corporation. Corporation and its organization. Corporation and its running - human role and communication. Corporation and its organization. Corporation and its running - human role and communication. Corporation in free market economy. Corporate directorship, work groups, adaptation, strife, different roles and positions in Specialised French for Transportation and Telecommunications ortation (public transport, railway, air, road and ship transport) and telecommunications terminology. Special focus on independent spe Health Protection in Transportation and EU in transportation in CR in the past and present. Conditions before 1989 and after, current legislature, future prospects. Harmonisation members. Fundamental principles of health protection and support in selected EU countries. Practical Spanish for Transportation communication skills, training of correct written expression of formal character, basic technical vocabulary, cultural specifics of the Spanish for Transportation reminology of transpor	Z Z Z KZ ng of driving licer KZ ransport develop d travelling in mo KZ all the stages of tecessful interview KZ sculture and soccorporation. KZ aking and writing KZ of legislation with the the the the the the the the the t	1 1 8 18 2 2 2 2 2 3 skills. 2 2 2 2 3 skills. 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
15XN3 15XN4 15XNDD 15Y2DN ntroduction into b 15Y2HS coads and road tr st part of 20th ce 15Y2JH The course provic includin 15Y2MS Sociological app H 15Y2OF Basic transp 15Y2OZ Health protection 15Y2PD Development of 15Y2PT the nutrition policy 15Y2PU Scientific texts type	Master Project 3 Master Project 4 Master Thesis for study programme DS Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, gettir in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History affic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road thury. Development of road traffic control, development of road signs. Job Hunting in English Les a practical guide to applying for a job in English. The interview process is mapped out, with the course including skills practise for a gepecifics for job-hunting in English. Students will also be introduced to the English vocabulary and phraseology necessary for a sucception of a corporation. Corporation and its organization. Corporation and its running - human role and communication. Corporation work position in free market economy. Corporate directorship, work groups, adaptation, strife, different roles and positions in free market economy. Corporate directorship, work groups, adaptation, strife, different roles and positions in free market economy. Corporate directorship, work groups, adaptation, strife, different roles and positions in free market economy. Corporate directorship more factorship, work groups, adaptation, strife, different roles and positions in free market economy. Corporate directorship more factorship in transportation for munications Plealth Protection in Transportation and Elecommunications Practical Spanish for Transportation Interaction transportation and foodstuffs. The health risks. Hygienic safeguard. The practical examples from the Czech Republic and dining cars, work trains and other railroad equipment. Legislation. Publications and Their Creation Publications and Their Creation of simple scientific documents.	Z Z Z KZ R R G of driving licer KZ ransport develop d travelling in mo KZ all the stages of t excessful interview KZ s culture and soc corporation. KZ aking and writing KZ of legislation wi KZ panish speaking KZ from the world. 1 KZ	1 1 8 8 18 2 19 19 19 19 19 19 19 19 19 19 19 19 19
15XN3 15XN4 15XNDD 15Y2DN 15Y2HS Roads and road tr st part of 20th ce 15Y2JH The course provic includit 15Y2MS Sociological app H 15Y2OF Basic transp 15Y2OZ Health protection 15Y2PD Development of 15Y2PT the nutrition policy	Master Project 3 Master Project 4 Master Thesis for study programme DS Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, gettir in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History affic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road trury. Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of road traffic control, development of road signs. Job Hunting in English se a practical guide to applying for a job in English. The interview process is mapped out, with the course including skills practise for a grapeditics for job-hunting in English. Students will also be introduced to the English vocabulary and phraseology necessary for a suc Sociology for Managers roach to a corporation. Corporation and its organization. Corporation and its running - human role and communication. Corporation work position in free market economy. Corporate directorship, work groups, adaptation, strife, different roles and positions in few market economy. Corporate directorship, work groups, adaptation, strife, different roles and positions in transportation in free market economy. Corporate directorship, work groups, adaptation, strife, different roles and positions in transportation in free market economy. Corporate directorship work groups, adaptation, strife, different roles and positions in transportation in free market economy. Corporate directorship work groups, adaptation, strife, different roles and positions in transportation in free market economy. Corporate directorship work groups, adaptation, strife, different roles and positions in free market economy. Corporate and telecommunications terminology. Special focus on independent spe Health Protection in Transportation and EU in transportation i	Z Z Z KZ ng of driving licer KZ ransport develop d travelling in mo KZ all the stages of tecessful interview KZ sculture and soccorporation. KZ aking and writing KZ of legislation with the the the the the the the the the t	1 1 8 8 18 2 2 10 10 10 10 10 10 10 10 10 10 10 10 10
15XN3 15XN4 15XNDD 15Y2DN 15Y2HS loads and road trist part of 20th ce 15Y2JH The course provice including 15Y2MS Sociological app 15Y2OF Basic transp 15Y2OZ Health protection 15Y2PD Development of 15Y2PT The nutrition policy 15Y2PU Scientific texts type 15Y2SP	Master Project 3 Master Project 4 Master Thesis for study programme DS Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, getting in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History affic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road the trury. Development of road tayout, geometric and construction layers. Beginning of modern road civil engineering. Development of road traffic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road the trury. Development of road tayout, geometric and construction layers. Beginning of modern road civil engineering. Development of road traffic in the ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road traffic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of transportation and traffic in the modern period, acceleration of transportation and internation period, acceleration of transportation and internation from the acceleration of the support of the	Z Z Z KZ Rg of driving licer KZ ransport develop d travelling in mo KZ all the stages of to excessful interview KZ so culture and soc corporation. KZ asking and writing KZ of legislation with KZ panish speaking KZ from the world. 1 KZ phic principles. 1 KZ	1 1 8 18 2 18 2 19 18 18 18 18 2 19 18 19 18 18 19 18 19 18 19 18 18 18 18 18 18 18 18 18 18 18 18 18
15XN3 15XN4 15XNDD 15Y2DN 15Y2HS loads and road trist part of 20th ce 15Y2JH The course provious includit 15Y2MS Sociological app H 15Y2OF Basic transp 15Y2OZ Health protection 15Y2PD Development of 15Y2PT The nutrition policy 15Y2PU Scientific texts ty 15Y2SP 15Y2SR	Master Project 3 Master Project 4 Master Thesis for study programme DS Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, gettir in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History affic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road trury. Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of road traffic control, development of road signs. Job Hunting in English se a practical guide to applying for a job in English. The interview process is mapped out, with the course including skills practise for a grapeditics for job-hunting in English. Students will also be introduced to the English vocabulary and phraseology necessary for a suc Sociology for Managers roach to a corporation. Corporation and its organization. Corporation and its running - human role and communication. Corporation work position in free market economy. Corporate directorship, work groups, adaptation, strife, different roles and positions in few market economy. Corporate directorship, work groups, adaptation, strife, different roles and positions in transportation in free market economy. Corporate directorship, work groups, adaptation, strife, different roles and positions in transportation in free market economy. Corporate directorship work groups, adaptation, strife, different roles and positions in transportation in free market economy. Corporate directorship work groups, adaptation, strife, different roles and positions in transportation in free market economy. Corporate directorship work groups, adaptation, strife, different roles and positions in free market economy. Corporate and telecommunications terminology. Special focus on independent spe Health Protection in Transportation and EU in transportation i	Z Z Z KZ ng of driving licer KZ ransport develop d travelling in mo KZ all the stages of to corporation. KZ sculture and soc corporation. KZ raking and writing KZ of legislation with KZ panish speaking KZ panish speaking KZ phic principles. T	1 1 8 18 2 18 2 19 18 18 18 18 2 19 18 19 18 18 19 18 19 18 19 18 18 18 18 18 18 18 18 18 18 18 18 18

15Y2TS	Technician and Contemporary Society	KZ	2
Why to take off a ha	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	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?		
15Y2ZA Theory	Basic Principles of English Academic Writing and Abstract in English creating a phrasal bank according to students' specialisations, rhetorical analysis or texts/abstracts, drafting an abstract, providing e	KZ effective feedback.	2
16PDP	Principles of Vehicle Design	ZK	2
Design of transp	ortation vehicle according to its usage and function. Marketing and user demands. Vehicle dynamics. Propulsion systems. Design pro	cess, functional de	sign and
	vehicle structure. Evaluation of variant concepts. Design phases. Realiability, technological aspects etc.		
16STK	Simulation and Testing of Vehicle Body and Systems	ZK	3
	Computing equipment for simulation. Modeling of mechanical and dynamic systems. Simulation and optimization methods. Hardware for vehicle design. Simulation of propulsion and electric systems. Strength and material analyses of dynamical phenomena for vehicle		
16XN1	Master Project 1	Z	2
16XN2	Master Project 2	Z	2
16XN3 16XN4	Master Project 3 Master Project 4	Z Z	1 8
	·	Z	
16XNDD	Master Thesis for study programme DS	KZ	18
16Y2EE	Emissions and Ergonomics of Vehicles concept on the influence on man and nature. National and international law related to the hygiene. Noise and vibrations - s		2 ropagation
_	ys of measuring, prevention, elimination. Exhausts - creation, measurement, reduction, non-regular fuels and drives. Ergonomy - sitting	-	
p.i.yo.ou. raidoo, ira	reach. Condition - heating, ventilation, air-conditioning, filtration, tiredom.	,, o.aag, ooo.,	oporational
16Y2HP	Vehicle Hygiene	KZ	2
	onomy of vehicles and the influence on man and nature. National and international law related to the hygiene. Noise and vibrations - s		ropagation,
physical values, wa	ys of measuring, prevention, elimination. Exhausts - creation, measurement, reduction, non-regular fuels and drives. Ergonomy - sitting	, standing, control,	operational
	reach. Condition - heating, ventilation, air-conditioning, filtration, tiredom.		
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.		
construction. Activ	e 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.	aling function. Aer	odynamics
16Y2MK	Quality Methods for Vehicles	KZ	2
	nt methods list, customer data acquisition and analysis of customer requirements, QFD, DFM, DFA, DFS. FMEA (Failure mode effect		
quanty manageme	(team) design.	a.ia.yo.o,o.i.	o or paramor
16Y2PG	Computer Graphics and Virtual Reality	KZ	2
	on and processing of bitmap and vector 2D graphics, 3D virtual scenes and algorithms used for their computerized processing. Adopting	skills of work with p	orofessional
and free	eware tools for creation and processing of 2D, 3D and interactive graphics, and basics of programming language VRML and graphic I	ibraries (OpenGL).	
16Y2ST	Special Technologies in Transport and Telecommunications	KZ	2
Micro, nano and	special technologies, electric arc and its applications, plasma technologies, dipping, beam technologies, electron beams technology vehicles, laser and laser technologies, soldering, gluing, ultrasound, diffusion, friction and explosion technologies, micro stoves		ending of
16Y2SV	Special technologies in vehicle manufacturing	KZ	2
	special technologies, electric arc and its applications, plasma technologies, dipping, beam technologies, electron beams technology	in roduction and m	ending of
	vehicles, laser and laser technologies, soldering, gluing, ultrasound, diffusion, friction and explosion technologies, micro stoves		
16Y2TT	Transportation and Building Technology and Equipment	KZ	2
· ·	and building technology and equipment. Transport of solid and mass material, soil and rock above all. Highway and underground cons		
vehicles, descriptio	n and construction features, delivered mass calculation, economy of operation. Technics and technology of underground constructions	s. Terrestrial vehicle	es operation
17DODD	management methodology (ultrasound, laser, GPS, total stations).	7 71/	4
17DOPD	Transportation Planning and Modeling ols used within four step model (trip generation, trip distribution, mode choice and trip distribution). Mobility and availability in urban a	Z,ZK	
Dasic steps and to	transportation planning and modelling.	reas, land use. Ne	w trends for
17TZND	Technology of Railway Transport	Z,ZK	4
	v assesment, model operational situation with a system running time between IPT-nodes, calculation of traction energy savings comp		
for designing of fle	eeting crossing station, solving of capacity problem and blocking time in relation to train protection system, robustness of timetable, s	ystem concept of f	eight train
	paths, guidelines for centralised operational traffic control and management.		
17XN1	Master Project 1	Z	2
17XN2	Master Project 2	Z	2
17XN3	Master Project 3	Z	1
17XN4	Master Project 4	Z	8
17XNDD	Master Thesis for study programme DS	Z	18
17Y2AM	Application of Marketing Tools in Transportation	KZ	2
	narketing principles in transport issues, marketing tools suitable for transport, case studies of the use of marketing in the sphere of p		
17Y2FM	Financing in Urban Mass Transportation	KZ	2
-	evelopment in Prague and other cities in the world. Building and operation of public tram, bus, and trolleybus networks. Underground		
UM I types. UMT o	development in small towns. Particularities of investment and operation financing of individual UMT types. Historic and present model	s of UMT financing	. Iransport
17Y2MD	inspection and blind passengers. Tourism & Dut. UMT typology & Dut. Continue of optimum financing.	V7	2
	Modelling and optimization on transport networks Jems on public transport networks, scheduling vehicles, design of control plans for light-controlled intersections including green wave	KZ modelling service	2 systems
500ramation proc	modelling of advanced problems in distribution systems - exact, heuristic and metaheuristic principles of solving problems	-	. 5,0001110,
17Y2MO	International Organisations in Transportation	KZ	2
	titions in transport, UN, EEC UN, Intergovernmental organisations, EU Offices and Agencies, Conference of European Ministries of tr		
	organisations of public transport, Air-Rail, railways, roads, air, waterways, forwarding and postal services.		

17Y2MS	Microsimulation of Railway Operation	KZ	2
	characteristics of simulation tools, creation of a simulation model of railway infrastructure, verification of a specific operational conce	-	
adaptation of the in	ifrastructure model and modification to the infrastructure to allow the implementation of the proposed operational concept. Stability tes of sensitivity of the operational concept to delays.	ts and evaluations	s. Evaluation
17Y2MT	Modern History for Engineering Students	KZ	2
	from the 19. century history. Geopolitical situation in Europe explained on the examples of Great Britain, Germany and Austrian Emp		
	Var, transatlantic transportation development. Imperial China: Late Qing dynasty. Selected chapters from the 20. century history: From		
	Czechoslovak historical myths.		
17Y2RZ	Control of Transport Processes	KZ	2
Theoretical bases	, transport system, decomposition, factors influencing control, quality diagnosis, methods of control, systems for decision making sup	port, risk of decision	on making,
17Y2SJ	telematics.		
	Network Timetabling on the Railway es. Capacity allocation, technological intervals in railway operation. Rules and regulations of train paths, running times, time adds and	KZ Lsupplements Rol	lling stock
· · · · · · · · · · · · · · · · · · ·	g. Rules of train-diagramm creating. Timetables for more service-levels on the line. Construction slot conflicts between passenger- and	* *	-
	relations and waiting times, timetables for lines under construction.		
18GAZ	Geomechanics and Foundation Engineering	Z,ZK	3
	f pertrographyand stratigraphy), mechanics of soils (classification of fundamental soils, mechanic properties of fundamental soils, per		
(footings, footers,	plates, depth of founding), determination of planar foundations bearing and deformation, depth foundations classification of depth foundations classification of depth foundations classification of depth foundations.	ndations elements	s, examples
40TF A M	of their use, piles (classification, technology od performing).	7 71/	1
18TEAM Fundamentals of	Theoretical and Applied Mechanics theory of plasticity. Plasticity conditions. Elastoplastic and plastic states of cross-sections and beams. Reliability and durability of stru	Z,ZK	and strain
r dridamentals of	state around a notch. Stress intensity factor. Fracture toughness. Energy methods of linear fracture mechanics. Crack driving for		and strain
18TIK	Theory of Engineering Structures	Z,ZK	4
The course builds u	upon the knowledge gained in basic mechanics courses in bachelor study (especially Statics and Elasticity) in the field of mathematica	I theory of elasticit	
is placed on plane	e and axisymmetric problems, as well as on the calculation of stress and strain in plates and shells. Students are further acquainted w	vith methods of mo	odeling the
	behavior of subsoil used in the design of line structures.		_
18XN1	Master Project 1	<u>Z</u>	2
18XN2	Master Project 2	Z	2
18XN3	Master Project 3	Z	1
18XN4	Master Project 4	Z	8
18XNDD	Master Thesis for study programme DS	Z	18
18Y2DC	Dynamics of Transport Routes and Vehicles	KZ	2
	alculations of more mass systems. Analysis of the forces acting between the vehicle and transport route. Creation of dynamic models of is with a finite number of degrees of freedom. Methods of stiffness constants and pliability constants. Fundamentals of vibration of bridgi		
violation of oyotom.	of oscillation. Experimental methods in dynamics.	20. 0.110.110.110.110.1	
18Y2EM	Electron microscopy	KZ	2
	of electron microscopy, construction, control and maintenance of SEM, sample preparation, signal detection, types of detectors and control and maintenance of SEM, sample preparation, signal detection, types of detectors and control and maintenance of SEM, sample preparation, signal detection, types of detectors and control and maintenance of SEM, sample preparation, signal detection, types of detectors and control and maintenance of SEM, sample preparation, signal detection, types of detectors and control and maintenance of SEM, sample preparation, signal detection, types of detectors and control and maintenance of SEM, sample preparation, signal detection, types of detectors and control and c		
analysis, quantific	cation of results and automation of data processing, energy dispersive X-ray microanalysis and other analytical methods in electron m	icroscopy. Evaluat	ion of data
10)/057	obtained from ED detector, practical examples of ED microanalysis on samples.		
18Y2FZ	Physical foundation of materials' properties lattice defects influence on properties of materials, stiffness, plasticity, strength, fracture, fatigue, creep, corrosion, effects of environm	KZ	2 n materials'
Atomistic models,	behavior are the main discussed topics.	lent and loading of	II IIIateriais
18Y2MP	Finite Element Method And Its Application	KZ	2
	ical formulation of the Finite Element Method. Direct Stiffness Method used in structural mechanics. Evaluation of stiffness matrices for		
variational princ	ciples. Element formulation (bar and beam elements, CST, LST, quadrilateral, tetrahedral and brick elements). Natural coordinates, na	atural shape functi	ons and
	isoparametric representation. Numerical integration. Introduction to dynamics. FEM programming.		_
18Y2OB	Optical Contactless Strain Measurements	KZ	2
	dents will get theoretical knowledge and practical experience in optical strain measurement methods. Students will get experience with speed cameras for acquisition of suitable image data and with digital image correlation algorithms for displacements measurements	-	
18Y2SD	Reliability and Diagnostics, Experimental Methods	KZ	2
	sed on theoretical background and practical experience in the field of reliability of constructions, implementation of diagnostic procedur		
	nination of residual life of structures. For this purpose, non-destructive methods of experimental mechanics (e.g. strain-gauge measure		
	optical methods, including electron microscopy, will be used.		
18Y2UB	Accident Biomechanics and Safety	KZ	2
=	Methods of Medical Diagnostics - RTG, CT, MRI, US. Dynamics of traumatic events. Factors influencing the severity of an accident and		
injuries in road t	traffic. Pedestrian injuries. Injury in railway and air traffic accidents. Analysis of biomechanical events in accidents and their computation treatment and rehabilitation. Protective elements and safety measures in transport.	onai modeling. Prir	nciples of
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		
20XN1	Master Project 1	Z	2
20XN2	Master Project 2	Z	2
20XN3	Master Project 3	Z	1
20XN4	Master Project 4	Z	8
20XNDD	Master Thesis for study programme DS	Z	18
20Y2PR	Prediction of time series	KZ	2
	e series prediction, meaning of prediction, basics of quantitative prediction. Methods for predictive quality evaluation, descriptive statistic		
prediction, predic	tion for general formula of loss function. Calculation and programming environment R. Regression models, basics of linear regression	, simple regressio	n. Multiple
	regression, statistical tests of linear dependence, selection of input variables.		

23Y2MA	Risk Analysis and Management	KZ	2		
Concept of risks and terms. Risk sources, definition of hazard, impacts and risks. Methods for identification, analysis, assessment and management of risks. Risk engineering targets					
and good engineering practice. Methods, tools and techniques for risk engineering. System of systems risk. Application of strategic and system approach for benefit of security and					
development. Territorial, emergency and crisis planning. Human factor - its role.					
23Y2PD	Practical vehicle dynamics	KZ	2		
Theory of vehicle dynamics. Multibody vehicle modeling. Modeling with IPG CarMaker. Standard and development stage experiments with road vehicles. Realization of experimental					
	measurements with passenger vehicles. Experiment evaluation.				
23Y2TP	Creation of legal and technical regulations	KZ	2		
Creation of legislation, structure of the bills of law, legal process, compatibility with the EC law, the creation of technical standards and their publication, ÚNMZ (Czech Office for					
standards, metrology and testing) in Czech Republic, organizations CEN, CENELEC and ETSI, the notification process.					
23Y2VR	Cope with Risks in Engineering Branches	KZ	2		
Types of engineering branches directed to risks, procedures used in risk engineering, ensuring the secured systems, ensuring the safe systems, ensuring the safe systems.					
23Y2VZ	Leadership and Human Resource Development	KZ	2		
Introduction to the study of human resources, human resources management, corporate goals, strategies, cultural and ethical aspects. Team management, communication in teams,					
strategy and planning in human resources, ethics and corporate culture, cross-cultural differences. The labor code. Introduction into protocols.					
23Y2ZM	Intelligence Means and Methods	KZ	2		
History and the present of intelligence services and their role in the modern world. How intelligence services handle with information. Methods and procedures of collecting and evaluating					
information. Means of intelligence services. Internal and external intelligence, military intelligence. The means and methods of state security services. Cooperation among Intelligence					
services within NATO, EU. The organization of the intelligence services.					

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