Recomended pass through the study plan

Name of the pass: Master Full-Time DS from 2025/26

Faculty/Institute/Others:

Department:

Pass through the study plan: Master Full-Time DS from 2024/25 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	B 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 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-24/25	PVP-B Mgr. prezen ní DS od 2024/25 00Y2XN,17Y2AM, (see the list of groups below)	Min. cours. 3 Max. cours. 3	Min/Max 6/6			PV

Number of semester: 3

number of seme						
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
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
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
3S-NP-DS-V-21/22	3. sem. Mgr. prezen ní DS výb r p edm tu od 2021/22 12/DOS,16STK	Min. cours. 1 Max. cours. 1	Min/Max 3/3			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-24/25	PVP-B Mgr. prezen ní DS od 2024/25 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)	Con	pletion	Credits	Scope	Semester	Role
1S-NP-DS-	-V1-22/23	1. sem. Mgr. preze	n ní DS výb	r p edm tu od 2022/23		cours. 1 . cours. 1	Min/Ma 4/4	×		Z
17DOPD	Transporta	tion Planning and Mode	17TZND	Technology of Railway Transport						
2S-NP-DS	6-V-20/21	2. sem. Mgr. preze	n ní DS výb	r p edm tu od 2020/21		cours. 1 . cours. 1	Min/Ma 4/4	x		Z
12BED	Road Safe	ty Audit	18TEAM	Theoretical and Applied Mechanic				_	,	
3S-NP-DS	S-V-21/22	3. sem. Mgr. preze	n ní DS výb	r p edm tu od 2021/22		cours. 1 . cours. 1	Min/Ma 3/3	x		z
12IDOS	Integrated	Transport Systems	16STK	Simulation and Testing of Vehicl						
JZ-NP-D	S-20/21	Jazyky Mç	gr. prezen ní	DS od 2020/21		cours. 4 cours. 4	Min/Ma 8/8	x		J
15J2F1	Language	- French 1	15J2l1	Language - Italian 1		15J2N1	L	anguage - G	erman 1	

15J2R1	Language	- Russian 1	15J2S1	Language - Spanish 1		15JBF2	L	.anguage - Fr	ench 2	
15JBI2	Language	- Italian 2	15JBN2	Language - German 2		15JBR2	L	.anguage - Ri	ussian 2	
5JBS2	Language	- Spanish 2	15JBF3	Language - French 3		15JBI3	L	.anguage - Ita	alian 3	
5JBN3	Language	- German 3	15JBR3	Language - Russian 3		15JBS3	L	.anguage - Sp	oanish 3	
5JBF4	Language	- French 4	15JBI4	Language - Italian 4		15JBN4	L	.anguage - G	erman 4	
5JBR4	Language	- Russian 4	15JBS4	Language - Spanish 4			,			
X2-NP-I	DS-20/21	Projekty I	Mgr. prezen	ní DS od 2020/21		cours.	Min/Ma : 13/13	x		ZP
						4				
1XN1	Master Pro	pject 1	12XN1	Master Project 1		14XN1	N	Naster Projec	t 1	
5XN1	Master Pro	ect 1	16XN1	Master Project 1		17XN1	N	Master Projec	t 1	
8XN1	Master Pro	nject 1	20XN1	Master Project 1		21XN1	N	Aaster Projec	t 1	
2XN1	Master Pro	ject 1	23XN1	Master Project 1		11XN2	N	/laster Projec	t 2	
2XN2	Master Pro	ject 2	14XN2	Master Project 2		15XN2	N	Master Projec	t 2	
6XN2	Master Pro	ject 2	17XN2	Master Project 2		18XN2	N	/laster Projec	t 2	
0XN2	Master Pro	piect 2	21XN2	Master Project 2		22XN2		Master Projec		
3XN2	Master Pro	<u> </u>	11XN3	Master Project 3		12XN3		Master Projec		
4XN3	Master Pro	<u> </u>	15XN3	Master Project 3		16XN3		Master Projec		
7XN3	Master Pro	<u> </u>	18XN3	Master Project 3		20XN3		Master Projec		
1XN3	Master Pro	<u> </u>	22XN3	Master Project 3		23XN3		Master Projec		
1XN4	Master Pro	•	12XN4	Master Project 4		14XN4		Master Projec		
5XN4	Master Pro	•	16XN4	Master Project 4		17XN4		Master Projec		
8XN4	Master Pro	<u> </u>		Master Project 4		21XN4				
2XN4	Master Pro	•	20XN4 23XN4	Master Project 4 Master Project 4		∠ 1∧IN4	IV	Master Projec	· 	
2/11/4	iviasiei Fic	1	23/11/4	Master Project 4	T		1	1		
					Min.	cours.				
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XD-NP-	DS-21/22	DP Mgi	r. prezen ní l	DS od 2021/22						Z
			•		wax.	cours.	18/18			
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1XNDD	Master The	esis for study programm	12XNDD	Master Thesis for study programn	n	1 14XNDD	 	Master Thesis	for study prog	ıramm
		esis for study programm	12XNDD	Master Thesis for study programn Master Thesis for study programn		14XNDD			for study prog	
5XNDD	Master The	esis for study programm	16XNDD	Master Thesis for study programn	n	14XNDD 17XNDD	N	Master Thesis	for study prog	ramm
5XNDD 8XNDD	Master The	esis for study programm	16XNDD 20XNDD	Master Thesis for study programn Master Thesis for study programn	n n	14XNDD	N	Master Thesis		ramm
15XNDD 18XNDD	Master The	esis for study programm	16XNDD	Master Thesis for study programn	n n	14XNDD 17XNDD 21XNDD	N	Master Thesis	for study prog	ramm
15XNDD 18XNDD	Master The	esis for study programm	16XNDD 20XNDD	Master Thesis for study programn Master Thesis for study programn	n n	14XNDD 17XNDD 21XNDD	N N	Master Thesis Master Thesis	for study prog	ramm
11XNDD 15XNDD 18XNDD 22XNDD	Master The Master The Master The	esis for study programm esis for study programm esis for study programm	16XNDD 20XNDD 23XNDD	Master Thesis for study programn Master Thesis for study programn Master Thesis for study programn	n n	14XNDD 17XNDD 21XNDD	N	Master Thesis Master Thesis	for study prog	ramm ramm
15XNDD 18XNDD 22XNDD	Master The	esis for study programm esis for study programm esis for study programm	16XNDD 20XNDD 23XNDD	Master Thesis for study programn Master Thesis for study programn	m n Min.	14XNDD 17XNDD 21XNDD	Min/Ma	Master Thesis Master Thesis	for study prog	ramm
5XNDD 8XNDD 22XNDD	Master The Master The Master The	esis for study programm esis for study programm esis for study programm	16XNDD 20XNDD 23XNDD	Master Thesis for study programn Master Thesis for study programn Master Thesis for study programn	m n Min.	14XNDD 17XNDD 21XNDD cours. 3 cours.	N N	Master Thesis Master Thesis	for study prog	ramm ramm
5XNDD 8XNDD 22XNDD Y2-NP-I	Master The Master The Master The Master The Master The DS-24/25	esis for study programm esis for study programm esis for study programm PVP-B M	16XNDD 20XNDD 23XNDD 23XNDD	Master Thesis for study programn ní DS od 2024/25	Max.	14XNDD 17XNDD 21XNDD cours. 3 cours. 3	Min/Ma: 6/6	Master Thesis Master Thesis	for study prog	ramm
5XNDD 8XNDD 2XNDD 2XNDD Y2-NP-I	Master The Master The Master The Master The Master The Master The Active part	esis for study programm esis for study programm esis for study programm	16XNDD 20XNDD 23XNDD 23XNDD gr. prezen n	Master Thesis for study programn Master Thesis for study programn Master Thesis for study programn Master Thesis for study programn ní DS od 2024/25 Application of Marketing Tools i	Max.	14XNDD 17XNDD 21XNDD cours. 3 cours. 3	Min/Ma: 6/6	Alaster Thesis Alaster Thesis X	for study prog for study prog	ramm ramm
5XNDD 8XNDD 2XNDD Y2-NP-I 0Y2XN 4Y2C1	Master The Master The Master The Master The Master The Master The Active part CATIA I	esis for study programm esis for study programm esis for study programm PVP-B M	16XNDD 20XNDD 23XNDD 23XNDD gr. prezen n 17Y2AM 14Y2C2	Master Thesis for study programn if DS od 2024/25 Application of Marketing Tools i CATIA II	m m Min Min	14XNDD 17XNDD 21XNDD cours. 3 cours. 3 12Y2BM 14Y2CS	Min/Ma: 6/6	Alaster Thesis Alaster Thesis X Safety on The Sensitivity of S	for study prog for study prog Local Roads	ramm
5XNDD 8XNDD 2XNDD Y2-NP-I 0Y2XN 4Y2C1 1Y2CR	Master The	esis for study programm esis for study programm esis for study programm PVP-B M icipation in a scient	16XNDD 20XNDD 23XNDD 23XNDD gr. prezen n 17Y2AM 14Y2C2 12Y2DU	Master Thesis for study programn Master Thesis for study programn Master Thesis for study programn Master Thesis for study programn Mi DS od 2024/25 Application of Marketing Tools i CATIA II Transport in the Context of Sust	m m Min Min	14XNDD 17XNDD 21XNDD cours. 3 cours. 3 12Y2BM 14Y2CS 15Y2DN	Min/Ma: 6/6	Alaster Thesis Alaster Thesis X Safety on The Sensitivity of Serials	for study prog for study prog Local Roads Systems Psychology ir	ramm PV
5XNDD 8XNDD 2XNDD Y2-NP-I 0Y2XN 4Y2C1 1Y2CR 8Y2DC	Master The CATIA I CRM Dynamics	esis for study programm esis for study programm esis for study programm PVP-B M icipation in a scient of Transport Routes and	16XNDD 20XNDD 23XNDD 23XNDD gr. prezen n 17Y2AM 14Y2C2 12Y2DU 18Y2EM	Master Thesis for study programn ní DS od 2024/25 Application of Marketing Tools i CATIA II Transport in the Context of Sust Electron microscopy	n n Min Max.	14XNDD 17XNDD 21XNDD cours. 3 cours. 3 12Y2BM 14Y2CS 15Y2DN 16Y2EE	Min/Ma: 6/6	Alaster Thesis Alaster Thesis X Safety on The Sensitivity of S Transportation Thissions and	for study prog for study prog Local Roads Systems Psychology in Ergonomics of	PV Ger of Vehi
5XNDD 8XNDD 2XNDD Y2-NP-I 0Y2XN 4Y2C1 1Y2CR 8Y2DC	Master The CATIA I CRM Dynamics	esis for study programm esis for study programm esis for study programm PVP-B M icipation in a scient	16XNDD 20XNDD 23XNDD 23XNDD gr. prezen n 17Y2AM 14Y2C2 12Y2DU 18Y2EM 21Y2FM	Master Thesis for study programn Master Thesis for study programn Master Thesis for study programn Master Thesis for study programn Mi DS od 2024/25 Application of Marketing Tools i CATIA II Transport in the Context of Sust	n n Min Max.	14XNDD 17XNDD 21XNDD cours. 3 cours. 3 12Y2BM 14Y2CS 15Y2DN	Min/Ma: 6/6	Alaster Thesis Alaster Thesis X Safety on The Sensitivity of S Transportation Thissions and	for study prog for study prog Local Roads Systems Psychology ir	PV Ger of Vehi
5XNDD 8XNDD 2XNDD Y2-NP-I 0Y2XN 4Y2C1 1Y2CR 8Y2DC 7Y2FM	Master The	esis for study programm esis for study programm esis for study programm PVP-B M icipation in a scient of Transport Routes and	16XNDD 20XNDD 23XNDD 23XNDD gr. prezen n 17Y2AM 14Y2C2 12Y2DU 18Y2EM	Master Thesis for study programn ní DS od 2024/25 Application of Marketing Tools i CATIA II Transport in the Context of Sust Electron microscopy	n n Min Max.	14XNDD 17XNDD 21XNDD cours. 3 cours. 3 12Y2BM 14Y2CS 15Y2DN 16Y2EE	Min/Ma: 6/6	Alaster Thesis Alaster Thesis X Safety on The Bensitivity of S Fransportation Emissions and	for study prog for study prog Local Roads Systems Psychology in Ergonomics of	PV Ger of Vehi
5XNDD 8XNDD 2XNDD 2XNDD Y2-NP-I 0Y2XN 4Y2C1 1Y2CR 8Y2DC 7Y2FM 5Y2HS	Master The	esis for study programm esis for study programm esis for study programm PVP-B M icipation in a scient of Transport Routes and in Urban Mass Transpor sport History	16XNDD 20XNDD 23XNDD 23XNDD gr. prezen n 17Y2AM 14Y2C2 12Y2DU 18Y2EM 21Y2FM	Master Thesis for study programn ní DS od 2024/25 Application of Marketing Tools i CATIA II Transport in the Context of Sust Electron microscopy Aviation Company Financial Mana	n n Min Max.	14XNDD 17XNDD 21XNDD cours. 3 12Y2BM 14Y2CS 15Y2DN 16Y2EE 18Y2FZ	Min/Ma: 6/6 S S T E P	Alaster Thesis Alaster Thesis X Safety on The Bensitivity of S Fransportation Emissions and	for study prog for study prog for study prog Local Roads Systems Psychology in Ergonomics of dation of mater tems in Postal	PV Ger of Vehi
5XNDD 8XNDD 2XNDD 2XNDD Y2-NP-I 0Y2XN 4Y2C1 1Y2CR 8Y2DC 7Y2FM 5Y2HS 2Y2IS	Master The CATIA I CRM Dynamics Financing Road Trans Urban Netv	esis for study programm esis for study programm esis for study programm PVP-B M icipation in a scient of Transport Routes and in Urban Mass Transpor sport History	16XNDD 20XNDD 23XNDD 23XNDD gr. prezen n 17Y2AM 14Y2C2 12Y2DU 18Y2EM 21Y2FM 16Y2HP	Master Thesis for study programn ní DS od 2024/25 Application of Marketing Tools i CATIA II Transport in the Context of Sust Electron microscopy Aviation Company Financial Mana Vehicle Hygiene	n n Min Max.	14XNDD 17XNDD 21XNDD Cours. 3 Cours. 3 12Y2BM 14Y2CS 15Y2DN 16Y2EE 18Y2FZ 14Y2IS	Min/Ma: 6/6 S S T E P Ir	Asster Thesis	for study prog for study prog for study prog Local Roads Systems Psychology in Ergonomics of dation of mater tems in Postal	PV Ger of Vehi Se
5XNDD 8XNDD 2XNDD 2XNDD Y2-NP-I 0Y2XN 4Y2C1 1Y2CR 8Y2DC 7Y2FM 5Y2HS 2Y2IS 4Y2KI	Master The CATIA I CRM Dynamics Financing Road Trans Urban Netv	esis for study programm esis for study programm esis for study programm PVP-B M icipation in a scient of Transport Routes and in Urban Mass Transpor sport History works estment in Transporta	16XNDD 20XNDD 23XNDD 23XNDD gr. prezen n 17Y2AM 14Y2C2 12Y2DU 18Y2EM 21Y2FM 16Y2HP 14Y2JM	Master Thesis for study programn If DS od 2024/25 Application of Marketing Tools i CATIA II Transport in the Context of Sust Electron microscopy Aviation Company Financial Mana Vehicle Hygiene One-Chip Controllers	n n Min Max.	14XNDD 17XNDD 21XNDD 21XNDD COURS. 3 12Y2BM 14Y2CS 15Y2DN 16Y2EE 18Y2FZ 14Y2IS 15Y2JH	Min/Ma: 6/6 S S T E P Ir	Asster Thesis	for study prog for study prog for study prog Local Roads Systems Psychology in d Ergonomics of dation of mater tems in Postal a English in Settlements	PV Ger of Vehi Se
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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.	ı	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

			r
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	•	ration and
· .	tion of metro systems. Network configuration and operation of tram systems. Special thematic lectures (rail transport in selected cou		
12Y2MD	Methods of Traffic Regulation and Prediction	KZ	2
Basic ways of traffic	prognosis, traffic prognosis for large area (calculation of future traffic volumes, calculation of future traffic volumes between areas (ana modal split, traffic distribution to road network). Shock wave in traffic flow. Service levels and their traffic volumes. Acceleration		tic methods,
12V2MU		KZ	2
12Y2MH	Measurement and Modeling of Traffic Noise uction to noise from traffic. Noise from rail transport. Noise from road traffic. Measurement and calculation of noise from rail traffic. Me		I
Theoretical introdu	noise from road traffic. Modelling of traffic noise in the CADNA A.	asurement and ca	ilculation of
12Y2MI	Urban Engineering	KZ	2
	eaching aming on utilities storage in area, coordination engineering activities in area, arrangement of public space, concepement of p		_
12Y2MZ	Modernization of Railway Lines and Stations	KZ	2
	ng. AGC and AGTC Agreement. AGC and AGTC railway network. Principles of modernization (conceptual papers, definitions of basic of	· · · · · · · · · · · · · · · · · · ·	_
	characteristics on modernized railway lines. Superstructure and substructure on upgraded lines. Designing of railway stations. Bridgi		
-	and realization of projects. Technical description of the tranzit corridors.		·
12Y2NS	Shared Space Design	KZ	2
Introducing studen	ts to the concept of integrated use of public spaces by sharing space with all users. Active promotion of settlements and sustainable	mobility in the pub	lic space of
towns and cities. A	Analysis of implemented foreign examples, principles of zone design in the context of legal and technical requirements. Linking traffic	engineering, urba	n planning
	and architecture in the process of designing quality public spaces.		
12Y2PV	Public transport priority	KZ	2
•	the backbone of sustainable mobility. Public transport priority (PTP) in strategic documents. PTP in the Czech Republic and abroad. Ty	•	_
of PTP measures.	Relationship between Basics of public transport stops and stations design. PTP measures and evaluation of their operation. Econom	ic and enviroment	al effects of
	PTP. The process of preparing PTP measures.		1
12Y2RD	Realization of Transport Buildings	KZ	2
_ · _ ·	Types. Project Documentation Types. Building Code. Land Permission and Building Permission Process. Building Process. Project Eco		anagement.
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	ing) and their com	binations.
	Traffic calming measures in crossroads. Pedestrian zones. Residential streets and zones.		ı
12ZSUZ	Railway Stations and Centres	Z,ZK	3
Equipment for pass	enger transport. Platform construction. Access roads to platforms. Modification of railway stations according to the TSI PRM. Station h	_	ant solutions
	of station heads for current ride. Junction stations. Crossing stations. Passenger stations. Moving stations. Public transport term		ı
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	territorial identifica	ation
14XN1	Master Project 1	Z	2
14XN2	Master Project 2	Z	2
	Madiel 1 Tojout 2	_	
14XN3	Master Project 3	Z	1
	Master Project 3		
14XN3 14XN4	Master Project 3 Master Project 4	Z Z	1 8
14XN3 14XN4 14XNDD	Master Project 3 Master Project 4 Master Thesis for study programme DS	Z Z Z	1 8 18
14XN3 14XN4 14XNDD 14Y2C1	Master Project 3 Master Project 4 Master Thesis for study programme DS CATIA I	Z Z Z KZ	1 8 18 2
14XN3 14XN4 14XNDD 14Y2C1	Master Project 3 Master Project 4 Master Thesis for study programme DS	Z Z Z KZ	1 8 18 2
14XN3 14XN4 14XNDD 14Y2C1 Fundaments of wo	Master Project 3 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.	Z Z Z KZ els from 2D sketch	1 8 18 2
14XN3 14XN4 14XNDD 14Y2C1 Fundaments of wo	Master Project 3 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 Z KZ els from 2D sketch	1 8 18 2 hes. Import
14XN3 14XN4 14XNDD 14Y2C1 Fundaments of wo	Master Project 3 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 export of made parts and bodies. Making assemble and visualization. CATIA II	Z Z Z KZ els from 2D sketch	1 8 18 2 hes. Import
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14XN3 14XN4 14XNDD 14Y2C1 Fundaments of word 14Y2C2 Extension of basic	Master Project 3 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 Z KZ fels from 2D sketch KZ c mechanism. Proj.	1 8 18 2 nes. Import 2 ect making 2
14XN3 14XN4 14XNDD 14Y2C1 Fundaments of word 14Y2C2 Extension of basic	Master Project 3 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 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 Z KZ fels from 2D sketch KZ c mechanism. Proj.	1 8 18 2 nes. Import 2 ect making 2
14XN3 14XN4 14XNDD 14Y2C1 Fundaments of word 14Y2C2 Extension of basic	Master Project 3 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 Z KZ fels from 2D sketch KZ c mechanism. Proj.	1 8 18 2 nes. Import 2 ect making 2
14XN3 14XN4 14XNDD 14Y2C1 Fundaments of word 14Y2C2 Extension of basic 14Y2CS Design of systems	Master Project 3 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, definitio matrices and their usability in system design.	Z Z Z KZ lels from 2D sketch KZ c mechanism. Proj. KZ n of sensitivity func	1 8 18 2 2 nes. Import 2 ect making 2 ctions and 2
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14XN3 14XN4 14XNDD 14Y2C1 Fundaments of word 14Y2C2 Extension of basic 14Y2CS Design of systems 14Y2IS The use of information postal network, opti	Master Project 3 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 Z KZ dels from 2D sketch KZ mechanism. Proje KZ n of sensitivity fund KZ mail processing non the framework of	1 8 18 2 hes. Import 2 ect making 2 ctions and 2 odes in the the practical 2
14XN3 14XN4 14XNDD 14Y2C1 Fundaments of word 14Y2C2 Extension of basic 14Y2CS Design of systems 14Y2IS The use of information postal network, opti	Master Project 3 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 Z KZ dels from 2D sketch KZ mechanism. Proje KZ n of sensitivity fund KZ mail processing non the framework of	1 8 18 2 hes. Import 2 ect making 2 ctions and 2 odes in the the practical 2
14XN3 14XN4 14XNDD 14Y2C1 Fundaments of word 14Y2C2 Extension of basic 14Y2CS Design of systems 14Y2IS The use of informate postal network, option	Master Project 3 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 rollers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed to the controllers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation.	Z Z KZ lels from 2D sketch KZ mechanism. Proje KZ n of sensitivity fundation of the framework of KZ with the aid of AVF	1 8 18 2 hes. Import 2 ect making 2 ctions and 2 odes in the the practical 2 chips.
14XN3 14XN4 14XNDD 14Y2C1 Fundaments of word 14Y2C2 Extension of basic 14Y2CS Design of systems 14Y2IS The use of informate postal network, option	Master Project 3 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 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 rollers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed to Capital Investment in Transportation and Telecommunications	Z Z KZ lels from 2D sketch KZ mechanism. Proje KZ n of sensitivity fundation of the framework of KZ with the aid of AVF	1 8 18 2 hes. Import 2 ect making 2 ctions and 2 odes in the the practical 2 chips.
14XN3 14XN4 14XNDD 14Y2C1 Fundaments of word 14Y2C2 Extension of basic 14Y2CS Design of systems 14Y2IS The use of informate postal network, option 14Y2JM One-chip contributed in the co	Master Project 3 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 rollers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed to Capital Investment in Transportation and Telecommunications Financial market, investment desicion making - long term goals and investment strategies, long term financing	Z Z Z KZ lels from 2D sketch KZ mechanism. Proje KZ n of sensitivity fund the framework of the framework of KZ with the aid of AVF KZ KZ	1 8 18 2 2 hes. Import 2 ect making 2 ctions and 2 odes in the the practical 2 R chips. 2
14XN3 14XN4 14XNDD 14Y2C1 Fundaments of word 14Y2C2 Extension of basic 14Y2CS Design of systems 14Y2IS The use of informate postal network, option 14Y2JM One-chip contributed in the co	Master Project 3 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 rollers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed of the 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. I from microscopic simulation system, discrete event simulation, celular automata simulation and virtual life area.	Z Z Z KZ lels from 2D sketch KZ mechanism. Proje KZ n of sensitivity fund KZ mail processing note the framework of KZ with the aid of AVR KZ With the aid of AVR KZ Problem cases wil	1 8 18 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1
14XN3 14XN4 14XNDD 14Y2C1 Fundaments of word 14Y2C2 Extension of basic 14Y2CS Design of systems 14Y2IS The use of informate postal network, option 14Y2JM One-chip control 14Y2KI 14Y2OP Class, object, encored	Master Project 3 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 rollers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed to 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	Z Z Z KZ lels from 2D sketch KZ mechanism. Proje KZ n of sensitivity function of sensitivity function of the framework of KZ with the aid of AVR KZ With the aid of AVR KZ RZ Problem cases will KZ	1 8 18 2 2 hes. Import 2 ect making 2 ctions and 2 odes in the the practical 2 R chips. 2 be chosen 2
14XN3 14XN4 14XNDD 14Y2C1 Fundaments of work 14Y2C2 Extension of basic 14Y2CS Design of systems 14Y2IS The use of informate postal network, opti 14Y2JM One-chip contributed in the control of the contro	Master Project 3 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 rollers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed of 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. I from microscopic simulation system, discrete event simulation, celular automata simulation and virtual life area. CAD Interface Programming Dinterface Programming languages. Possibilities of proper objects (comman	Z Z Z KZ lels from 2D sketch KZ mechanism. Proje KZ n of sensitivity function of sensitivity function of the framework of KZ with the aid of AVR KZ With the aid of AVR KZ RZ Problem cases will KZ	1 8 18 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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14XN3 14XN4 14XNDD 14Y2C1 Fundaments of word 14Y2C2 Extension of basic 14Y2CS Design of systems 14Y2IS The use of informate postal network, option 14Y2JM One-chip control 14Y2VI 14Y2OP Class, object, encountered to CAE 14Y2PI Introduction to CAE 14Y2PI Introduction and de SOA (Service Or 14Y2PJ	Master Project 3 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 rollers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed Capital Investment in Transportation and Telecommunications Financial market, investment desicion making - long term goals and investment strategies, long term financing Object Oriented Programming in Transport 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 tealed usage of transport information systems, e.g. EFC, ePurse and transport check-in systems for public tr	Z Z Z KZ lels from 2D sketch KZ mechanism. Proje KZ n of sensitivity fund KZ mail processing not the framework of KZ with the aid of AVF KZ Problem cases will KZ chitecture of this sincluded lectures at KZ	1 8 8 18 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1
14XN3 14XN4 14XNDD 14Y2C1 Fundaments of work 14Y2C2 Extension of basic 14Y2CS Design of systems 14Y2IS The use of informate postal network, option 14Y2JM One-chip contraction to CAE 14Y2PH Introduction to CAE 14Y2PI Introduction and design (Service Or 14Y2PJ OOP philosophy and	Master Project 3 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 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 Collers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed of 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 Oiterface 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 Transport tation etailed usage of transport information systems, e.g. EFC, ePurse and transport check-in systems for public tran	Z Z Z KZ lels from 2D sketch KZ mechanism. Proje KZ n of sensitivity fund KZ mail processing not the framework of KZ with the aid of AVF KZ Problem cases will KZ ds), dialogues, inter KZ streams, method a	1 8 8 18 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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14XN3 14XN4 14XNDD 14Y2C1 Fundaments of work 14Y2C2 Extension of basic 14Y2CS Design of systems 14Y2IS The use of informate postal network, option 14Y2JM One-chip control 14Y2VI Class, object, encount 14Y2PH Introduction to CAE 14Y2PI Introduction and dison (Service Or 14Y2PJ OOP philosophy an	Master Project 3 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 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 Collers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed of 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 Oiterface 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 Transport tation etailed usage of transport information systems, e.g. EFC, ePurse and transport check-in systems for public tran	Z Z Z KZ lels from 2D sketch KZ mechanism. Proje KZ n of sensitivity fund KZ mail processing not the framework of KZ with the aid of AVF KZ Problem cases will KZ ds), dialogues, inter KZ streams, method as KZ	1 8 8 18 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1

14Y2UI	Artificial Intelligence	KZ	2
Histo	ory of artificial intelligence, knowledge, its representation including frames, state space search, constraints, genetic algorithms, mac		2
15J2A1	Language - English 1	Z	2
	sentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work e		
15J2F1	Language - French 1	Z	2
	ires and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, t, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec		_
tooriiioar toxt ooritori	language of management.	innoar rogiotoro a	ina inon acc
15J2I1	Language - Italian 1	Z	2
Grammatical Structu	ires and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	feedback skills, s	summarising
technical text conten	t, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec	hnical registers a	ind their use,
15J2N1	language of management.	Z	2
	Language - German 1 Ires and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	-	. –
	t, 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
	res and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,		
technical text conten	t, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec language of management.	hnical registers a	ind their use
15J2S1	Language - Spanish 1	Z	2
	res and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	-	1
technical text conten	t, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec	hnical registers a	ind their use,
	language of management.		
15JBA2	Language - English 2	Z	2
	sentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work of		
15JBA3	Language - English 3 - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Op	Z	2
r resentation oxilis	FCE, CAE.	ilonal courses loi	Certificates
15JBA4	Language - English 4	ZK	2
Presentation Skills	expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Op	tional courses for	certificates
	FCE, CAE.		
15JBF2	Language - French 2	Z	2
	ires and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, t, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec		_
technical text conten		illilicai registers a	iilu iileli use,
	language of management.	· ·	
15JBF3	language of management. Language - French 3	Z	2
	language of management. Language - French 3 ics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language level and study focus at the Faculty.	Z	2
Grammar and stylist	Language - French 3 ics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lacommunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w	Z anguage structure	2 e knowledge
Grammar and stylist and perceptive and	Language - French 3 ics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lacommunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work of features. Practice of oral and written presentation.	Z anguage structure with (professional	2 e knowledge) text and its
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15JCZ1	Czech Language for Foreign Students 1 s of Czech language, common communication situations, study, work, leisure time activities, introduction of myself, phonetics of Czec	Z ch language wri	0 ting skills
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	_	-
15JCZ3	Czech Language for Foreign Students 3	Z	Ť
	Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology.		<u>'</u>
15JCZ4	Czech Language for Foreign Students 4 Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology.	Z	
15XN1	Master Project 1	Z	2
15XN2	Master Project 2		
ZVIAGI	iviasiei Flojeci 2	Z	2
15XN2 15XN3	Master Project 2 Master Project 3	Z 	1
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15XN3 15XN4 15XNDD 15Y2DN	Master Project 3 Master Project 4 Master Thesis for study programme DS Transportation Psychology in German Speaking Countries proader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, getti	Z Z Z KZ	1 8 18 2
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15XN3 15XN4 15XN4 15XNDD 15Y2DN troduction into be a part of 20th ce a part of 20th	Master Project 3 Master Project 4 Master Thesis for study programme DS Transportation Psychology in German Speaking Countries oroader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, gettiin traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History raffic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road intury. Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of road intury. Development of road intercections, bridges and traffic control, development of road signs. Job Hunting in English Jes a practical guide to applying for a job in English. The interview process is mapped out, with the course including skills practise for an generation of post-hunting in English. Students will also be introduced to the English vocabulary and phraseology necessary for a succeleration. Corporation. Corporation. Corporation and its organization. Corporation and its running - human role and communication. Corporation-human's work 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 special forms 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 S	Z Z Z KZ ng of driving lice KZ transport develo ad travelling in m KZ all the stages of ccessful intervie KZ s culture and so corporation. KZ eaking and writin KZ n of legislation w KZ panish speaking	1 8 8 18 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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15XN3 15XN4 15XNDD 15Y2DN troduction into be to the part of 20th ce	Master Project 3 Master Project 4 Master Thesis for study programme DS Transportation Psychology in German Speaking Countries oroader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, getti in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History raffic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road intury. Development of road ladyout, 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 Jes 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 sure Sociology for Managers roach to a corporation. Corporation and its organization. Corporation and its running - human role and communication. Corporation, it human's work 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 special 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 formal character, basic technical vocabulary, cultural specifics of the Streminology of transport and commerce. Food in Transportation pullications and Their Creation pes. Footnotes and references. Exploration of facts. Quotations. Formal document layout. Work	Z Z Z KZ ng of driving lice KZ transport develor devel	1 8 8 18 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

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
_	ys of measuring, prevention, elimination. Exhausts - creation, measurement, reduction, non-regular fuels and drives. Ergonomy - sitting	-	
priyorodi varaco, ma	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
	e characteristics of simulation tools, creation of a simulation model of railway infrastructure, verification of a specific operational concept nfrastructure model and modification to the infrastructure to allow the implementation of the proposed operational concept. Stability tests of sensitivity of the operational concept to delays.	•	
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 Empir War, transatlantic transportation development. Imperial China: Late Qing dynasty. Selected chapters from the 20. century history: From I Czechoslovak historical myths.		
17Y2SJ	Network Timetabling on the Railway	KZ	2
•	les. Capacity allocation, technological intervals in railway operation. Rules and regulations of train paths, running times, time adds and		•
irculation planning	 g. Rules of train-diagramm creating. Timetables for more service-levels on the line. Construction slot conflicts between passenger- and for relations and waiting times, timetables for lines under construction. 	reight transport.	Network lir
18GAZ	Geomechanics and Foundation Engineering	Z,ZK	3
	of pertrographyand stratigraphy), mechanics of soils (classification of fundamental soils, mechanic properties of fundamental soils, perm plates, depth of founding), determination of planar foundations bearing and deformation, depth foundations classification of depth foundations of their use, piles (classification, technology od performing).		
18TEAM	Theoretical and Applied Mechanics	Z,ZK	4
Fundamentals of	theory of plasticity. Plasticity conditions. Elastoplastic and plastic states of cross-sections and beams. Reliability and durability of struct	tures. The stress	and strair
	state around a notch. Stress intensity factor. Fracture toughness. Energy methods of linear fracture mechanics. Crack driving for		1
18TIK	Theory of Engineering Structures	Z,ZK	4
	upon the knowledge gained in basic mechanics courses in bachelor study (especially Statics and Elasticity) in the field of mathematical to an explainable properties are further explainted with the students are students.	-	
is placed on plan	e and axisymmetric problems, as well as on the calculation of stress and strain in plates and shells. Students are further acquainted wi behavior of subsoil used in the design of line structures.	in methods of m	odeling the
18XN1	Master Project 1	Z	2
18XN2	Master Project 2	<u></u>	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
asic theory and c	parallines of Transport Noutes and Verlices acting between the vehicle and transport route. Creation of dynamic models of versions with a finite number of degrees of freedom. Methods of stiffness constants and pliability constants. Fundamentals of vibration of bridges	ehicles and tran	sport route
	of oscillation. Experimental methods in dynamics.		
	Electron microscopy of electron microscopy, construction, control and maintenance of SEM, sample preparation, signal detection, types of detectors and date		
Basic principles	Electron microscopy	nta evaluation us	ing image
Basic principles analysis, quantific 18Y2FZ Atomistic models,	Electron microscopy of electron microscopy of electron microscopy, construction, control and maintenance of SEM, sample preparation, signal detection, types of detectors and decation of results and automation of data processing, energy dispersive X-ray microanalysis and other analytical methods in electron microanalysis and other analytical methods in electron microanalysis on samples. Physical foundation of materials' properties lattice defects influence on properties of materials, stiffness, plasticity, strength, fracture, fatigue, creep, corrosion, effects of environmental behavior are the main discussed topics.	ata evaluation us croscopy. Evalua KZ ent and loading o	ing image tion of dat 2 on material
Basic principles analysis, quantifice 18Y2FZ Atomistic models, 18Y2MP Basic mathematics	Electron microscopy of electron microscopy of electron microscopy, construction, control and maintenance of SEM, sample preparation, signal detection, types of detectors and decation of results and automation of data processing, energy dispersive X-ray microanalysis and other analytical methods in electron microscopy obtained from ED detector, practical examples of ED microanalysis on samples. Physical foundation of materials' properties lattice defects influence on properties of materials, stiffness, plasticity, strength, fracture, fatigue, creep, corrosion, effects of environmental behavior are the main discussed topics. Finite Element Method And Its Application tical formulation of the Finite Element Method. Direct Stiffness Method used in structural mechanics. Evaluation of stiffness matrices for aciples. Element formulation (bar and beam elements, CST, LST, quadrilateral, tetrahedral and brick elements). Natural coordinates, nat	kta evaluation us croscopy. Evalua KZ ent and loading o KZ r the basic element	ing image tion of data 2 on material 2 ents using
Basic principles analysis, quantific 18Y2FZ Atomistic models, 18Y2MP Basic mathemar variational prin	Electron microscopy of electron microscopy of electron microscopy, construction, control and maintenance of SEM, sample preparation, signal detection, types of detectors and decation of results and automation of data processing, energy dispersive X-ray microanalysis and other analytical methods in electron microscopy obtained from ED detector, practical examples of ED microanalysis on samples. Physical foundation of materials' properties lattice defects influence on properties of materials, stiffness, plasticity, strength, fracture, fatigue, creep, corrosion, effects of environme behavior are the main discussed topics. Finite Element Method And Its Application tical formulation of the Finite Element Method. Direct Stiffness Method used in structural mechanics. Evaluation of stiffness matrices for nciples. Element formulation (bar and beam elements, CST, LST, quadrilateral, tetrahedral and brick elements). Natural coordinates, nat isoparametric representation. Numerical integration. Introduction to dynamics. FEM programming.	kta evaluation us croscopy. Evaluation KZ ent and loading of KZ the basic elemental shape functions.	ing image tion of dat 2 on material 2 ents using ions and
Basic principles analysis, quantific 18Y2FZ Atomistic models, 18Y2MP Basic mathemat variational prin 18Y2OB	Electron microscopy of electron microscopy of electron microscopy, construction, control and maintenance of SEM, sample preparation, signal detection, types of detectors and decation of results and automation of data processing, energy dispersive X-ray microanalysis and other analytical methods in electron microscopy obtained from ED detector, practical examples of ED microanalysis on samples. Physical foundation of materials' properties lattice defects influence on properties of materials, stiffness, plasticity, strength, fracture, fatigue, creep, corrosion, effects of environmental behavior are the main discussed topics. Finite Element Method And Its Application tical formulation of the Finite Element Method. Direct Stiffness Method used in structural mechanics. Evaluation of stiffness matrices for aciples. Element formulation (bar and beam elements, CST, LST, quadrilateral, tetrahedral and brick elements). Natural coordinates, nat	KZ the basic elemental shape function with the shape functions.	ing image tion of dat 2 on materia 2 ents using ions and 2
Basic principles analysis, quantific 18Y2FZ Atomistic models, 18Y2MP Basic mathemat variational prin 18Y2OB In the course students	Electron microscopy of electron microscopy of electron microscopy, construction, control and maintenance of SEM, sample preparation, signal detection, types of detectors and decation of results and automation of data processing, energy dispersive X-ray microanalysis and other analytical methods in electron microscopy obtained from ED detector, practical examples of ED microanalysis on samples. Physical foundation of materials' properties lattice defects influence on properties of materials, stiffness, plasticity, strength, fracture, fatigue, creep, corrosion, effects of environme behavior are the main discussed topics. Finite Element Method And Its Application tical formulation of the Finite Element Method. Direct Stiffness Method used in structural mechanics. Evaluation of stiffness matrices for nciples. Element formulation (bar and beam elements, CST, LST, quadrilateral, tetrahedral and brick elements). Natural coordinates, nat isoparametric representation. Numerical integration. Introduction to dynamics. FEM programming. Optical Contactless Strain Measurements	KZ the basic elemetrical shape functions with the basic elemetrical shape functions of laborator with the basic elemetrical shape functions with the basi	ing image tion of dat 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Basic principles analysis, quantific 18Y2FZ Atomistic models, 18Y2MP Basic mathemat variational prin 18Y2OB In the course students	Electron microscopy of electron microscopy, construction, control and maintenance of SEM, sample preparation, signal detection, types of detectors and decation of results and automation of data processing, energy dispersive X-ray microanalysis and other analytical methods in electron microscopy, construction of data processing, energy dispersive X-ray microanalysis and other analytical methods in electron microscopy Physical foundation of materials' properties Intice defects influence on properties of materials, stiffness, plasticity, strength, fracture, fatigue, creep, corrosion, effects of environmental defects influence on properties of materials, stiffness, plasticity, strength, fracture, fatigue, creep, corrosion, effects of environmental defects influence on properties of materials, stiffness, plasticity, strength, fracture, fatigue, creep, corrosion, effects of environmental defects influence on properties of materials, stiffness, plasticity, strength, fracture, fatigue, creep, corrosion, effects of environmental defects influence on properties of environmental defects influence on properties of materials, stiffness, plasticity, strength, fracture, fatigue, creep, corrosion, effects of environmental defects influence on properties of environmental defects influence on properties of environmental defects influence on properties of environmental defects influence on properties. Finite Element Method And Its Application tical formulation of the Finite Element Method. Direct Stiffness Method used in structural mechanics. Evaluation of stiffness matrices for notical formulation (bar and beam elements, CST, LST, quadrilateral, tetrahedral and brick elements). Natural coordinates, natical experience in optical strain measurements Optical Contactless Strain Measurements dents will get theoretical knowledge and practical experience in optical strain measurement methods. Students will get experience with	KZ the basic elemetrical shape functions with the basic shape functions of laborator with the basic shape functions are of laborator.	ing image tion of dat 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Basic principles analysis, quantific 18Y2FZ Atomistic models, 18Y2MP Basic mathemat variational prin 18Y2OB In the course students and high 18Y2SD The course is focus	Electron microscopy of electron microscopy, construction, control and maintenance of SEM, sample preparation, signal detection, types of detectors and decation of results and automation of data processing, energy dispersive X-ray microanalysis and other analytical methods in electron microscopy. Physical foundation of materials' properties I attice defects influence on properties of materials, stiffness, plasticity, strength, fracture, fatigue, creep, corrosion, effects of environmentation behavior are the main discussed topics. Finite Element Method And Its Application tical formulation of the Finite Element Method. Direct Stiffness Method used in structural mechanics. Evaluation of stiffness matrices for inciples. Element formulation (bar and beam elements, CST, LST, quadrilateral, tetrahedral and brick elements). Natural coordinates, naticisoparametric representation. Numerical integration. Introduction to dynamics. FEM programming. Optical Contactless Strain Measurements dents will get theoretical knowledge and practical experience in optical strain measurement methods. Students will get experience with a speed cameras for acquisition of suitable image data and with digital image correlation algorithms for displacements measurements at Reliability and Diagnostics, Experimental Methods sed on theoretical background and practical experience in the field of reliability of constructions, implementation of diagnostic procedures.	KZ the basic elemental shape funct KZ use of laborator nd strain fields of KZ	2 ants using ions and 2 y cameras alculation 2
Basic principles analysis, quantific 18Y2FZ Atomistic models, 18Y2MP Basic mathemat variational prin 18Y2OB In the course students and high 18Y2SD The course is focus	Electron microscopy of electron microscopy, construction, control and maintenance of SEM, sample preparation, signal detection, types of detectors and decation of results and automation of data processing, energy dispersive X-ray microanalysis and other analytical methods in electron microscopy. Physical foundation of materials' properties I attice defects influence on properties of materials, stiffness, plasticity, strength, fracture, fatigue, creep, corrosion, effects of environmentation behavior are the main discussed topics. Finite Element Method And Its Application Itical formulation of the Finite Element Method. Direct Stiffness Method used in structural mechanics. Evaluation of stiffness matrices for inciples. Element formulation (bar and beam elements, CST, LST, quadrilateral, tetrahedral and brick elements). Natural coordinates, naticity isoparametric representation. Numerical integration. Introduction to dynamics. FEM programming. Optical Contactless Strain Measurements dents will get theoretical knowledge and practical experience in optical strain measurement methods. Students will get experience with a speed cameras for acquisition of suitable image data and with digital image correlation algorithms for displacements measurements at Reliability and Diagnostics, Experimental Methods sed on theoretical background and practical experience in the field of reliability of constructions, implementation of diagnostic procedures initiation of residual life of structures. For this purpose, non-destructive methods of experimental mechanics (e. g. strain-gauge measurement)	KZ the basic elemental shape funct KZ use of laborator nd strain fields of KZ	ing image tion of dat 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Basic principles analysis, quantific 18Y2FZ Atomistic models, 18Y2MP Basic mathemat variational prin 18Y2OB In the course sturn DSLRs and high 18Y2SD The course is focus lefects and determine analysis.	Electron microscopy of electron microscopy, construction, control and maintenance of SEM, sample preparation, signal detection, types of detectors and decation of results and automation of data processing, energy dispersive X-ray microanalysis and other analytical methods in electron microscopy detectors and decation of results and automation of data processing, energy dispersive X-ray microanalysis and other analytical methods in electron microscopy Physical foundation of materials' properties lattice defects influence on properties of materials, stiffness, plasticity, strength, fracture, fatigue, creep, corrosion, effects of environmental behavior are the main discussed topics. Finite Element Method And Its Application Itical formulation of the Finite Element Method. Direct Stiffness Method used in structural mechanics. Evaluation of stiffness matrices for aciples. Element formulation (bar and beam elements, CST, LST, quadrilateral, tetrahedral and brick elements). Natural coordinates, nate isoparametric representation. Numerical integration. Introduction to dynamics. FEM programming. Optical Contactless Strain Measurements dents will get theoretical knowledge and practical experience in optical strain measurement methods. Students will get experience with a speed cameras for acquisition of suitable image data and with digital image correlation algorithms for displacements measurements at Reliability and Diagnostics, Experimental Methods sed on theoretical background and practical experience in the field of reliability of constructions, implementation of diagnostic procedures initiation of residual life of structures. For this purpose, non-destructive methods of experimental mechanics (e. g. strain-gauge measurem optical methods, including electron microscopy, will be used.	KZ The basic elemental shape funct KZ use of laborator nd strain fields of KZ s for the detectionent, photoelasti	2 ants using ions and 2 y cameras alculation 2 on of materia 2 m of materia 2 y cameras alculation 2 on of matericimetry) a
Basic principles analysis, quantific 18Y2FZ Atomistic models, 18Y2MP Basic mathemat variational prin 18Y2OB In the course sturn DSLRs and high 18Y2SD The course is focus lefects and determ 18Y2UB Anatomy of man. N	Electron microscopy of electron microscopy, construction, control and maintenance of SEM, sample preparation, signal detection, types of detectors and decation of results and automation of data processing, energy dispersive X-ray microanalysis and other analytical methods in electron microscopy obtained from ED detector, practical examples of ED microanalysis on samples. Physical foundation of materials' properties lattice defects influence on properties of materials, stiffness, plasticity, strength, fracture, fatigue, creep, corrosion, effects of environment behavior are the main discussed topics. Finite Element Method And Its Application tical formulation of the Finite Element Method. Direct Stiffness Method used in structural mechanics. Evaluation of stiffness matrices for aciples. Element formulation (bar and beam elements, CST, LST, quadrilateral, tetrahedral and brick elements). Natural coordinates, natisoparametric representation. Numerical integration. Introduction to dynamics. FEM programming. Optical Contactless Strain Measurements dents will get theoretical knowledge and practical experience in optical strain measurement methods. Students will get experience with a speed cameras for acquisition of suitable image data and with digital image correlation algorithms for displacements measurements at Reliability and Diagnostics, Experimental Methods sed on theoretical background and practical experience in the field of reliability of constructions, implementation of diagnostic procedures on the process of the proces	KZ the basic elementarian strain fields of KZ use of laborator of strain fields of KZ s for the detectionent, photoelastic KZ ne extent of a train field of the content of a train fields of KZ	2 ants using ions and 2 y cameras alculation 2 on of materic 2 grants using ions and 2 y cameras alculation 2 on of materic cimetry) a 2 ffic accide
Basic principles analysis, quantific 18Y2FZ Atomistic models, 18Y2MP Basic mathemat variational prin 18Y2OB In the course sturn DSLRs and high 18Y2SD The course is focus efects and determination of man. Mathematical Injuries in road 18Y2UB Anatomy of man. Mathematical Injuries in road 18Y2UB Anat	Electron microscopy of electron microscopy, construction, control and maintenance of SEM, sample preparation, signal detection, types of detectors and da cation of results and automation of data processing, energy dispersive X-ray microanalysis and other analytical methods in electron microscopy, construction of data processing, energy dispersive X-ray microanalysis and other analytical methods in electron microscopy dispersive X-ray microanalysis and other analytical methods in electron microscopy dispersive X-ray microanalysis and other analytical methods in electron microscopy. Physical foundation of materials' properties lattice defects influence on properties of materials, stiffness, plasticity, strength, fracture, fatigue, creep, corrosion, effects of environmental behavior are the main discussed topics. Finite Element Method And Its Application litical formulation of the Finite Element Method. Direct Stiffness Method used in structural mechanics. Evaluation of stiffness matrices for acciples. Element formulation (bar and beam elements, CST, LST, quadrilateral, tetrahedral and brick elements). Natural coordinates, nat isoparametric representation. Numerical integration. Introduction to dynamics. FEM programming. Optical Contactless Strain Measurements dents will get theoretical knowledge and practical experience in optical strain measurement methods. Students will get experience with a speed cameras for acquisition of suitable image data and with digital image correlation algorithms for displacements measurements and Reliability and Diagnostics, Experimental Methods sed on theoretical background and practical experience in the field of reliability of constructions, implementation of diagnostic procedures initiation of residual life of structures. For this purpose, non-destructive methods of experimental mechanics (e. g. strain-gauge measuren optical methods, including electron microscopy, will be used. Accident Biomechanics and Safety Methods of Medical Diagnostics - RTG, CT, MRI, US. Dynamics of t	KZ the basic element of laborator of kZ use of laborator of strain fields of kZ s for the detectionent, photoelastic kZ ne extent of a trainal modeling. Prince of strain fields.	2 cents using ions and 2 y cameras alculation. 2 n of materic imetry) a 2 ffic accide nciples of
Basic principles analysis, quantific 18Y2FZ Atomistic models, 18Y2MP Basic mathemat variational prin 18Y2OB In the course student by the course is focus efects and determination of man. In Injuries in road 18Y2VC	Electron microscopy of electron microscopy, construction, control and maintenance of SEM, sample preparation, signal detection, types of detectors and decation of results and automation of data processing, energy dispersive X-ray microanalysis and other analytical methods in electron microscopy obtained from ED detector, practical examples of ED microanalysis on samples. Physical foundation of materials' properties lattice defects influence on properties of materials, stiffness, plasticity, strength, fracture, fatigue, creep, corrosion, effects of environment behavior are the main discussed topics. Finite Element Method And Its Application tical formulation of the Finite Element Method. Direct Stiffness Method used in structural mechanics. Evaluation of stiffness matrices for aciples. Element formulation (bar and beam elements, CST, LST, quadrilateral, tetrahedral and brick elements). Natural coordinates, natisoparametric representation. Numerical integration. Introduction to dynamics. FEM programming. Optical Contactless Strain Measurements dents will get theoretical knowledge and practical experience in optical strain measurement methods. Students will get experience with a speed cameras for acquisition of suitable image data and with digital image correlation algorithms for displacements measurements at Reliability and Diagnostics, Experimental Methods sed on theoretical background and practical experience in the field of reliability of constructions, implementation of diagnostic procedures on the process of the proces	KZ the basic elementarian fields of KZ use of laborator nd strain fields of KZ strain fields of KZ kZ use of laborator nd strain fields of KZ strain fields of KZ strain fields of KZ strain fields of KZ	2 2 ents using ions and 2 2 y cameras alculation 2 n of matericimetry) a 2 ffic accidenciples of 2
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21XN2	Master Project 2	Z	2
21XN3	Master Project 3	Z	1
	·	Z	
21XN4	Master Project 4		8
21XNDD	Master Thesis for study programme DS	Z	18
21Y2CR	CRM	KZ	2
	. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the human factors of the stress of the stres		
	formation Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership & Decision Making. Communication. Leadership & Decision Making. Communication.		_
21Y2FM	Aviation Company Financial Management	, KZ	2
i neories of corpora	rate finance - financial statements, budget, forecast. Financial policy of the company. Financial resources - long-term financ	rces, depreciation	n, retained
041/01/40	earnings, shares, bonds, loans, leasing, capital. Financial and economic analysis of the company - structure and content.	1/7	
21Y2MC	CNS Systems Modelling	KZ	2
The course is designe	ed as a set of model tasks in the field of communication navigation and surveillance systems in aviation, addressed using mathematools. A large part is devoted to air targets tracking, measurement-to-track association, track filtering and multisensor tracking.		and software
24\/2140			2
21Y2MG	Military Aerospace Technologies: Applications and Global Dynamics	KZ	2
21Y2MK	Marketing of Air Transport	KZ	2
	ourse "Marketing in air transport" is the management of activities and processes using available marketing tools and processes for a of sales of goods and services in the aviation industry. In addition to the theoretical foundations of marketing, the lectures present s		
and implementation o	and product analysis, creation of marketing strategies and planning.	ystems of market	, competition
21Y2MQ		V7	
	Quality Management	KZ	2
•	tion. Pioneers in the field of quality. International quality organisations and quality promotion in the Czech Republic. Quality manage s. Integrated management systems. Risk management in the context of the requirements of ISO standards. Sectoral quality manager	•	
management systems	quality management, excellence models and corporate social responsibility. Quality audits.	nent systems. Co	Impremensive
21V2DD		K7	2
21Y2PP	Law and Operation in Air Transport	KZ	2
Development of aviati	Law and Operation in Air Transport tion law. International organisations and including of the Czech Republic in these organisations.	ations. EU legisla	tion and civil
Development of aviati	Law and Operation in Air Transport tion law. International conventions on civil aviation. International organisations and including of the Czech Republic in these organism of state administration and state supervision in matters of civil aviation, in accordance with Act No. 49/1997 Col. Facilitation. Response	ations. EU legisla	tion and civil
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