Recomended pass through the study plan

Name of the pass: Bachelor Full-Time TET-DOS from 2023/24

Faculty/Institute/Others:

Department:

Pass through the study plan: Bachelor TET-DOS Full-Time from 2023/24

Branch of study guranteed by the department: Welcome page

Guarantor of the study branch:

Program of study: Technology in Transportation and Telecommunications

Type of study: Bachelor 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) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
14ASD	Algorithm and Data Structures Tomáš Brandejský, Michal Je ábek, Alena Kubá ová, Jan Procházka, Vít Fábera, Martin Fiala Vít Fábera Vít Fábera (Gar.)	KZ	3	0P+2C+8E	Z	Z
11CAL1	Calculus 1 Olga Vraštilová, Tomáš Tasák, Magdalena Hykšová, Bohumil Ková, Ond ej Navrátil Bohumil Ková Ond ej Navrátil (Gar.)	Z,ZK	7	2P+4C+22E	Z	Z
15DPLG	Transportation Psychology Eva Rezlerová, Jana Štikarová	Z	2	2P+0C+6E	Z	Z
11GIE	Geometry Old ich Hykš, Pavel Provinský, Šárka Vorá ová Old ich Hykš Old ich Hykš (Gar.)	KZ	3	2P+2C+12E	Z	Z
14KSP	Constructing with Computer Aid Vít Fábera, Radek Kratochvíl Lukáš Svoboda	KZ	2	0P+2C+8E	Z	Z
11LA	Linear Algebra Pavel Provinský, Lucie Kárná, Martina Be vá ová Martina Be vá ová Martina Be vá ová (Gar.)	Z,ZK	3	2P+1C+10E	Z	Z
18MTY	Materials Science and Engineering Jaromír Kylar, Veronika Drechslerová, Jaromír Kylar, Nela Kr má ová, Jitka ezní ková, Jaroslav Valach, Vít Malinovský, Veronika Drechslerová, Jaromír Kylar Jaroslav Valach Jaroslav Valach (Gar.)	Z,ZK	3	2P+1C+10E	Z	Z
18TED	Technical Documentation Jitka ezní ková, Vít Malinovský Jitka ezní ková Jitka ezní ková (Gar.)	KZ	2	1P+1C+8E	Z	Z
TV-1	Physical Education	Z	1		Z	Z
16UDOP	Introduction into Vehicles Zuzana Radová, Petr Bouchner	Z	2	2P+0C+8E	Z	Z
12ZYDI	Introduction to Transportation Engineering Zuzana arská, Dagmar Ko árková, Jan Kruntorád	Z,ZK	2	1P+1C	Z	Z
18STD	Seminary from Technical Documentation	Z	0	0P+2C	Z	V
TVKZV	Physical Education Course	Z	0	7dní	Z	V

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
11CAL2	Calculus 2 Olga Vraštilová, Tomáš Tasák, Magdalena Hykšová, Ond ej Navrátil, Old ich Hykš Magdalena Hykšová Ond ej Navrátil (Gar.)	Z,ZK	5	2P+3C+20B	L	Z
14PRG	Programming Alena Kubá ová, Jan Procházka, Martin Fiala, Jana Kaliková, Jan Kr ál, Lukáš Svoboda Jana Kaliková Jana Kaliková (Gar.)	KZ	2	0P+2C+8B	L	Z
18SAT	Structural Analysis Jaromír Kylar, Veronika Drechslerová, Nela Kr má ová, Jitka ezní ková, Daniel Kytý, Jan Vy ichl, Tomáš Doktor, Jan Falta, Jan Šleichrt Daniel Kytý (Gar.)	Z,ZK	4	2P+2C+14B	L	Z

11STAT	Statistics Pavel Provinský, Evženie Uglickich, Pavla Pecherková, Michal Matowicki, Natálie Blahitka, Ivan Nagy, Jana Kuklová Pavla Pecherková Evženie Uglickich (Gar.)	Z,ZK	4	2P+2C+12B	L	Z
20SYSA	Systems Analysis Zuzana B linová, Ji í R ži ka, Patrik Horaž ovský, Petr Bureš Zuzana B linová (Gar.)	Z,ZK	5	2P+2C+14B	L	Z
17TEDL	Transport Technology and Logistics Vít Janoš, Michal Drábek, Zden k Michl, Rudolf Vávra, Stanislav Metelka Zden k Michl Vít Janoš (Gar.)	KZ	3	2P+1C	L	Z
TV-2	Physical Education	Z	1		L	Z
21ZALD	Basics of Air Transport Jakub Hospodka, Tomáš Tlu ho, Ji í Volt, Peter Olexa, Jan Slezá ek, Jakub Trýb, Sébastien Lán, Bo Stloukal	KZ	2	0P+2C+8B	L	Z
12ZTS	Railway Lines and Stations Lukáš Týfa, Martin Jacura, Petr Šatra, Tomáš Javo ík, Ond ej Trešl Lukáš Týfa (Gar.)	Z,ZK	4	2P+2C+10B	L	Z
14DZT	Digital Support for Railway Lines Martin Brumovský Martin Brumovský (Gar.)	Z	0	0P+2C	L	V
21SLD	Seminar of Air Transport Vladimír Plos, Jakub Kraus, Natalia Guskova Vladimír Plos	Z	0	0P+2C	L	V
18SS	Seminary from Structural Analysis Jan Vy ichi	Z	0	0P+2C	L	V
11SSF	Secondary School Physics Course Zuzana Malá Zuzana Malá Zuzana Malá (Gar.)	Z	0	0P+2C	L	V
TVKLV	Physical Education Course	Z	0	7dní	L	V

Number of semester: 3

	Name of the course / Name of the group of courses					
Code	(in case of groups of courses the list of codes of their members)	Completion	Credits	Scope	Semester	Role
	Tutors, authors and guarantors (gar.)					
15JZ1A	Foreign Language - English 1 Eva Rezlerová, Markéta Vojanová, Dana Boušová, Marie Michlová, Marek Tome ek, Jan Feit, Markéta Musilová, Peter Morpuss, Lenka Monková,	Z	3	0P+4C+10B	B Z	Z
14DATS	Database Systems Jana Kaliková, Jan Kr ál Jana Kaliková Jana Kaliková (Gar.)	KZ	2	1P+1C+10B	B Z	Z
11FYZ	Physics Old ich Hykš, Jana Kuklová, Zuzana Malá, Pavel Demo, Tomáš Vít Jana Kuklová Pavel Demo (Gar.)	Z,ZK	5	2P+2C+18B	B Z	Z
12MDE	Transport Models and Transport Excesses Josef Kocourek, Tomáš Pad lek	Z,ZK	3	2P+1C+8B	3 Z	Z
12PPOK	Designing Roads, Highways and Motorways Josef Kocourek, Tomáš Pad lek, Polina Zayats, Petr Kumpošt Josef Kocourek (Gar.)	KZ	3	1P+2C+10B	B Z	Z
18PZP	Elasticity and Strength Jitka ezní ková, Daniel Kytý, Jan Vy ichl, Tomáš Doktor, Jan Šleichrt, Josef Jíra, Ond ej Jiroušek Ond ej Jiroušek Ond ej Jiroušek (Gar.)	Z,ZK	3	2P+1C+10B	B Z	Z
17TGA	Graph Theory and its Applications in Transport Alena Rybi ková, Denisa Mocková, Dušan Teichmann	Z,ZK	4	2P+2C+12B	B Z	Z
20UITS	Introduction to Intelligent Transport Systems Ji í R ži ka, Patrik Horaž ovský, Kristýna Navrátilová, Viktor Beneš, Eva Haj iarová, Martin Langr, Vladimír Faltus, Pavel Hrubeš Martin Langr	Z,ZK	7	3P+2C+20B	B Z	Z
14DPK	Digital Support for Designing of Roads and Highways Libor Žídek, Drahomír Schmidt Drahomír Schmidt Drahomír Schmidt (Gar.)	Z	0	0P+2C	Z	V
11SCFZ	Seminar of Physics Old ich Hykš, Jana Kuklová, Zuzana Malá, Tomáš Vít Zuzana Malá Zuzana Malá (Gar.)	Z	0	0P+2C	Z	V
18SPP	Seminary from Elasticity and Strength Jan Vy ichl, Tomáš Doktor Jan Vy ichl Jan Vy ichl (Gar.)	Z	0	0P+2C	Z	V

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
15JZ2A	Foreign Language - English 2 Eva Rezlerová, Markéta Vojanová, Marie Michlová, Marek Tome ek, Jan Feit, Markéta Musilová, Peter Morpuss, Lenka Monková, Jitka He manová,	Z,ZK	3	0P+4C+10B	L	Z
16DOKY	Vehicle Technology Josef Mík, P emysl Toman, Josef Svoboda Josef Mík (Gar.)	Z,ZK	5	2P+2C	L	Z
18KIDY	Kinematics and Dynamics Jitka ezní ková, Tomáš Fíla, Petr Zlámal Tomáš Fíla (Gar.)	Z,ZK	4	2P+2C	L	Z

11MSP	Modeling of Systems and Processes Bohumil Ková , Lucie Kárná Bohumil Ková Bohumil Ková (Gar.)	Z,ZK	4	2P+2C+12B	L	Z
11SEMO	Seminar of Electromagnetic Field and Optics Old ich Hykš, Zuzana Malá, Tomáš Vít Zuzana Malá Zuzana Malá (Gar.)	Z	0	0P+2C	L	ZP
X1-BP-DOS-22/23	Projekty Bc. prezen ní TET-DOS od 2022/23 11X31D,12X31D, (see the list of groups below)	Min. cours. 3 Max. cours. 3	Min/Max 8/8			ZP
4S-BP-DOS-V1-22/23	4. sem. Bc. prezen níTET-DOS 1. výb r p edm tu od 2022/23 11EMOP,12SDK	Min. cours. 1 Max. cours. 1	Min/Max 4/4			Z
4S-BP-DOS-V2-22/23	4. sem. Bc. prezen ní TET-DOS 2. výb r p edm tu od 2022/23 11MDSD, 12PUSS	Min. cours. 1 Max. cours. 1	Min/Max 3/3			Z
4S-BP-DOS-V3-22/23	4. sem. Bc. prezen ní TET-DOS 3. výb r p edm tu od 2022/23 14PODP,18MECK	Min. cours. 1 Max. cours. 1	Min/Max 3/3			Z
Y1-BP-DOS-23/24	PVP-B Bc. prezen ní TET-DOS od 2023/24 21Y1AM,00Y1XB, (see the list of groups below)	Min. cours. 4 Max. cours. 4	Min/Max 8/8			PV

Number of semester: 5

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
22DON	Traffic Accidents Tomáš Blodek, Tomáš Mi unek, Michal Frydrýn, Tomáš Kohout Tomáš Mi unek Tomáš Mi unek (Gar.)	Z,ZK	6	3P+2C	Z	Z
12ZELP	Railway Operation Jan Kruntorád, Martin Jacura, Tomáš Javo ík	Z,ZK	4	2P+2C	Z	ZP
X1-BP-DOS-22/23	Projekty Bc. prezen ní TET-DOS od 2022/23 11X31D,12X31D, (see the list of groups below)	Min. cours. 3 Max. cours. 3	Min/Max 8/8			ZP
5S-BP-DOS-V1-23/24	5. sem. Bc. prezen ní TET-DOS 1. výb r p edm tu od 2023/24 12DOSI, 18DYKS	Min. cours. 1 Max. cours. 1	Min/Max 3/3			Z
5S-BP-DOS-V2-23/24	5. sem. Bc. prezen ní TET-DOS 2. výb r p edm tu od 2023/24 12MKOD, 16DYJV	Min. cours. 1 Max. cours. 1	Min/Max 5/5			Z
5S-BP-DOS-V3-23/24	5. sem. Bc. prezen ní TET-DOS 3. výb r p edm tu od 2023/24 12POSD, 18NUMM	Min. cours. 1 Max. cours. 1	Min/Max 3/3			Z
JZ-BP-TET-22/23	Bc. TET (mimo LED) druhý jazyk od 2022/23 15JZ3F, 15JZ3I, (see the list of groups below)	Min. cours. 2 Max. cours. 2	Min/Max 6/6			J
Y1-BP-DOS-23/24	PVP-B Bc. prezen ní TET-DOS od 2023/24 21Y1AM,00Y1XB, (see the list of groups below)	Min. cours.	Min/Max 8/8			PV

	Max	x. cours.		
		4		

Number of semester: 6

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
22METD	Measurement Methods and Technology in Transportation Drahomír Schmidt, Michal Frydrýn, Luboš Nouzovský, Zden k Svatý Luboš Nouzovský Drahomír Schmidt (Gar.)	ZK	4	2P+2C	L	Z
12PRMK	Urban Road Traffic and Design Josef Kocourek, Tomáš Pad lek, Petr Kumpošt Josef Kocourek (Gar.)	Z,ZK	5	2P+2C	L	ZP
12VHD	Public Transport Jan Kruntorád, Petr Chmela, Martin Jareš Martin Jareš (Gar.)	Z,ZK	5	3P+2C	L	Z
X1-BP-DOS-22/23	Projekty Bc. prezen ní TET-DOS od 2022/23 11X31D,12X31D, (see the list of groups below)	Min. cours. 3 Max. cours. 3	Min/Max 8/8			ΖP
6S-BP-DOS-V1-23/24	6. sem. Bc. prezen ní TET-DOS 1. výb r p edm tu od 2023/24 16PAV, 17FID	Min. cours. 1 Max. cours. 1	Min/Max 4/4			Z
6S-BP-DOS-V2-23/24	6. sem. Bc. prezen ní TET-DOS 2. výb r p edm tu od 2023/24 12ZAR,14ZDA	Min. cours. 1 Max. cours. 1	Min/Max 3/3			Z
JZ-BP-TET-22/23	Bc. TET (mimo LED) druhý jazyk od 2022/23 15.JZ3F,15.JZ3I, (see the list of groups below)	Min. cours. 2 Max. cours. 2	Min/Max 6/6			J
Y1-BP-DOS-23/24	PVP-B Bc. prezen ní TET-DOS od 2023/24 21Y1AM,00Y1XB, (see the list of groups below)	Min. cours. 4 Max. cours. 4	Min/Max 8/8			PV

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 specificati	f courses an on see here	d codes of members of this or below the list of courses)	Com	pletion	Credits	Scope	Semester	Role
4S-BP-DOS				výh r n edm tu od 2022/23	Min.	cours. 1 cours. 1	Min/Max			z
11EMOP	Electromag	gnetic Field and Optics	12SDK	Highways, Motorways and Intersec						
					Min.	cours.				
4S-BP-DOS	5-V2-22/23	4. sem. Bc. prezen ní	TET-DOS 2.	výb r p edm tu od 2022/23	Max	1 cours. 1	Min/Max 3/3			Z
4S-BP-DOS	_	4. sem. Bc. prezen ní	TET-DOS 2.	výb r p edm tu od 2022/23 Organization Disposition of Rail	Max	cours.				z
11MDSD	Collecting a	and Processing of Tra	12PUSS	Organization Disposition of Rail	Min.	1 cours. 1 cours. 1 cours. 1 cours.	3/3 Min/Max			z

					Min.	cours.				
						1	Min/Ma	ax		
5S-BP-DO	S-V1-23/24	5. sem. Bc. prezen r	ní TET-DOS 1.	výb r p edm tu od 2023/24			0/0			Z
				, ,	Max.	cours.	3/3			
						1				
12DOSI	Traffic Sur	veys and Simulations	18DYKS	Dynamics of Structures and Syste						
					Min	cours.				
					141111.		L			
59_RD_DO	S-V2-23/24	F D	TET DOC 1	with a monday to ad 2022/24		1	Min/Ma	ax		z
33-BF-DO	3-VZ-23/24	5. sem. Bc. prezen i	11 1E 1-DOS 2.	výb r p edm tu od 2023/24	Max.	cours.	5/5			
						1				
1011100	0: 0 17		4000/10/	lvii s						
12MKOD	City Rail Tr	ansport	16DYJV	Vehicle Dynamics	I		1			
					Min.	cours.				
	0.10.00101					1	Min/Ma	ax		
58-BP-DO	S-V3-23/24	5. sem. Bc. prezen r	ní TET-DOS 3.	výb r p edm tu od 2023/24	Max	cours.	3/3			Z
					li.u.x.		0,0			
						1				
12POSD	Assessme	nt of Transport Structur	18NUMM	Numerical Methods in Mechanics						
					Min.	cours.				
						1	Min/Ma	av		
6S-BP-DO	S-V1-23/24	6. sem. Bc. prezen r	ní TET-DOS 1.	výb r p edm tu od 2023/24		•		un		Z
		•			wax.	cours.	4/4			
						1				
16PAV	Passive Sa	afety	17FID	Financing and Investment in Tran .			1			
			1			cours.				
							B. 41.			
6S-BP-DO	S-V2-23/24	6 com Bo prozon r	TET DOS 2	výb r p edm tu od 2023/24		1	Min/Ma	ax		z
00 D. DO	O V2 20/24	o. sein. Bc. prezeir i	II 1 E I-DOS 2.	vyb i p edili tu od 2023/24	Max.	cours.	3/3			_
						1				
12ZAR	Intro di cotio	n to Architectural Do	14ZDA	Data Processing	1	•				
IZZAK	Introductio	n to Architectural De	14ZDA	Data Processing			1			
					Min.	cours.				
						2	Min/Ma	ax		
JZ-BP-1	ET-22/23	Bc. TET (mi	mo LED) drul	ný jazyk od 2022/23	Max	cours.	6/6			J
					wax.	cours.	0/0			
						_	1			
						2				
		nguage - French 3	15JZ3I	Foreign Language - Italian 3		15JZ3N			uage - German	
15JZ3R	Foreign La	nguage - Russian 3	15JZ3S	Foreign Language - Spanish 3		15JZ3N 15JZ4F		Foreign Langu	uage - French	4
15JZ3R 15JZ4I	Foreign La	nguage - Russian 3 nguage - Italian 4				15JZ3N		Foreign Langu		4
15JZ3R 15JZ4I	Foreign La	nguage - Russian 3	15JZ3S	Foreign Language - Spanish 3		15JZ3N 15JZ4F		Foreign Langu	uage - French	4
15JZ3F 15JZ3R 15JZ4I 15JZ4S	Foreign La	nguage - Russian 3 nguage - Italian 4	15JZ3S	Foreign Language - Spanish 3	Min.	15JZ3N 15JZ4F		Foreign Langu	uage - French	4
15JZ3R 15JZ4I	Foreign La	nguage - Russian 3 nguage - Italian 4	15JZ3S	Foreign Language - Spanish 3	Min.	15JZ3N 15JZ4F 15JZ4R cours.		Foreign Langu	uage - French	4
15JZ3R 15JZ4I 15JZ4S	Foreign La	nguage - Russian 3 nguage - Italian 4 nguage - Spanish 4	15JZ3S 15JZ4N	Foreign Language - Spanish 3 Foreign Language - German 4		15JZ3N 15JZ4F 15JZ4R cours. 3	Min/Ma	Foreign Langu	uage - French	4
15JZ3R 15JZ4I 15JZ4S	Foreign La Foreign La Foreign La	nguage - Russian 3 nguage - Italian 4 nguage - Spanish 4	15JZ3S 15JZ4N	Foreign Language - Spanish 3		15JZ3N 15JZ4F 15JZ4R cours.		Foreign Langu	uage - French	4
15JZ3R 15JZ4I 15JZ4S	Foreign La Foreign La Foreign La	nguage - Russian 3 nguage - Italian 4 nguage - Spanish 4	15JZ3S 15JZ4N	Foreign Language - Spanish 3 Foreign Language - German 4		15JZ3N 15JZ4F 15JZ4R cours. 3	Min/Ma	Foreign Langu	uage - French	4
15JZ3R 15JZ4I 15JZ4S X1-BP-D	Foreign La Foreign La Foreign La	nguage - Russian 3 nguage - Italian 4 nguage - Spanish 4 Projekty Bc	15JZ3S 15JZ4N	Foreign Language - Spanish 3 Foreign Language - German 4		15JZ3N 15JZ4F 15JZ4R cours. 3 cours.	Min/Ma 8/8	Foreign Langu	Jage - French 4 Jage - Russian	4
15JZ3R 15JZ4I 15JZ4S X1-BP-D 11X31D	Foreign La Foreign La Foreign La Foreign La	nguage - Russian 3 nguage - Italian 4 nguage - Spanish 4 Projekty Bc	15JZ3S 15JZ4N . prezen ní T	Foreign Language - Spanish 3 Foreign Language - German 4 ET-DOS od 2022/23		15JZ3N 15JZ4F 15JZ4R cours. 3 cours. 3	Min/Ma 8/8	Foreign Langu Foreign Langu	Jage - French 4 Jage - Russian	4
15JZ3R 15JZ4I 15JZ4S X1-BP-D 11X31D 15X31D	Foreign La Foreign La Foreign La Foreign La POS-22/23	nguage - Russian 3 nguage - Italian 4 nguage - Spanish 4 Projekty Bc	15JZ3S 15JZ4N . prezen ní T	Foreign Language - Spanish 3 Foreign Language - German 4 ET-DOS od 2022/23 Project 1 DOS		15JZ3N 15JZ4F 15JZ4R cours. 3 cours. 3	Min/Ma 8/8	Foreign Langu Foreign Langu ax Project 1 DOS	Jage - French 4 Jage - Russian	4
15JZ3R 15JZ4I 15JZ4S X1-BP-D 11X31D 15X31D 18X31D	Foreign La Foreign La Foreign La Foreign La Project 1 E Project 1 E	nguage - Russian 3 nguage - Italian 4 nguage - Spanish 4 Projekty Bc	15JZ3S 15JZ4N . prezen ní T	Foreign Language - Spanish 3 Foreign Language - German 4 ET-DOS od 2022/23 Project 1 DOS Project 1 DOS		15JZ3N 15JZ4F 15JZ4R cours. 3 cours. 3 14X31D 17X31D	Min/Ma 8/8	Foreign Langu Foreign Langu ax Project 1 DOS Project 1 DOS	Jage - French 4 Jage - Russian	4
15JZ3R 15JZ4I 15JZ4S X1-BP-D 11X31D 15X31D 18X31D 22X31D	Foreign La Foreign La Foreign La Foreign La Foreign La Project 1 E Project 1 E Project 1 E	nguage - Russian 3 nguage - Italian 4 nguage - Spanish 4 Projekty Bc OOS OOS OOS	15JZ3S 15JZ4N . prezen ní T 12X31D 16X31D 20X31D	Foreign Language - Spanish 3 Foreign Language - German 4 ET-DOS od 2022/23 Project 1 DOS Project 1 DOS Project 1 DOS Project 1 DOS		15JZ3N 15JZ4F 15JZ4R cours. 3 cours. 3 14X31D 17X31D 21X31D	Min/Ma 8/8	Foreign Langu Foreign Langu AX Project 1 DOS Project 1 DOS Project 1 DOS	Jage - French 4 Jage - Russian	4
15JZ3R 15JZ4I 15JZ4S X1-BP-D 11X31D 15X31D 18X31D 22X31D 12X32D	Foreign La	nguage - Russian 3 nguage - Italian 4 nguage - Spanish 4 Projekty Bc OOS OOS OOS OOS	15JZ3S 15JZ4N . prezen ní T 12X31D 16X31D 20X31D 23X31D	Foreign Language - Spanish 3 Foreign Language - German 4 ET-DOS od 2022/23 Project 1 DOS		15JZ3N 15JZ4F 15JZ4R cours. 3 cours. 3 14X31D 17X31D 21X31D 11X32D	Min/Ma 8/8	Foreign Langu Foreign Langu Ax Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS	Jage - French 4 Jage - Russian	4
15JZ3R 15JZ4I 15JZ4S X1-BP-D 11X31D 15X31D 18X31D 22X31D 12X32D 16X32D 20X32D	Foreign La	nguage - Russian 3 nguage - Italian 4 nguage - Spanish 4 Projekty Bc OOS OOS OOS OOS OOS	15JZ3S 15JZ4N . prezen ní T 12X31D 16X31D 20X31D 23X31D 14X32D	Foreign Language - Spanish 3 Foreign Language - German 4 ET-DOS od 2022/23 Project 1 DOS Project 2 DOS Project 2 DOS		15JZ3N 15JZ4F 15JZ4R cours. 3 cours. 3 14X31D 17X31D 21X31D 11X32D 15X32D	Min/Ma 8/8	Project 1 DOS Project 1 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 2 DOS	Jage - French 4 Jage - Russian	4
15JZ3R 15JZ4I 15JZ4S X1-BP-D 11X31D 15X31D 18X31D 22X31D 12X32D 16X32D 20X32D	Project 1 Description of the Project 2 Descri	nguage - Russian 3 nguage - Italian 4 nguage - Italian 4 nguage - Spanish 4 Projekty Bc OOS OOS OOS OOS OOS OOS OOS	15JZ3S 15JZ4N . prezen ní T 12X31D 16X31D 20X31D 23X31D 14X32D 17X32D	Foreign Language - Spanish 3 Foreign Language - German 4 ET-DOS od 2022/23 Project 1 DOS Project 2 DOS Project 2 DOS Project 21 DOS		15JZ3N 15JZ4F 15JZ4R Cours. 3 Cours. 3 14X31D 17X31D 21X31D 11X32D 15X32D 18X32D	Min/Ma 8/8	Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS	Jage - French 4 Jage - Russian	4
15JZ3R 15JZ4I 15JZ4S X1-BP-D 11X31D 15X31D 18X31D 12X32D 12X32D 16X32D 20X32D 23X32D	Project 1 Description of the project 1 Description of the project 1 Description of the project 2 Descri	Projekty Bc Projekty Bc OOS OOS OOS OOS OOS OOS OOS	15JZ3S 15JZ4N 15JZ4N . prezen ní T 12X31D 16X31D 20X31D 23X31D 14X32D 17X32D 21X32D	Foreign Language - Spanish 3 Foreign Language - German 4 ET-DOS od 2022/23 Project 1 DOS Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS		15JZ3N 15JZ4F 15JZ4R Cours. 3 Cours. 3 14X31D 17X31D 21X31D 11X32D 15X32D 18X32D 22X32D	Min/Ma 8/8	Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS	Jage - French 4 Jage - Russian	4
15JZ3R 15JZ4I 15JZ4S	Project 1 Description of the project 2 Description of the project 3 Descri	Projekty Bc OOS OOS OOS OOS OOS OOS OOS OOS OOS O	15JZ3S 15JZ4N 15JZ4N . prezen ní T 12X31D 16X31D 20X31D 23X31D 14X32D 17X32D 21X32D 11X33D	Foreign Language - Spanish 3 Foreign Language - German 4 ET-DOS od 2022/23 Project 1 DOS Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 3 DOS		15JZ3N 15JZ4F 15JZ4R COURS. 3 14X31D 17X31D 21X31D 11X32D 15X32D 18X32D 22X32D 12X33D	Min/Ma 8/8	Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS Project 3 DOS Project 3 DOS Project 3 DOS	Jage - French 4 Jage - Russian	4
15JZ3R 15JZ4I 15JZ4S X1-BP-D 11X31D 15X31D 18X31D 12X32D 12X32D 16X32D 20X32D 23X32D 14X33D	Project 1 Description of the project 2 Description of the project 3 Descri	Projekty Bc OOS OOS OOS OOS OOS OOS OOS OOS OOS O	15JZ3S 15JZ4N 15JZ4N 15JZ4N 15JZ4N 15JZ4N 12X31D 16X31D 20X31D 23X31D 14X32D 17X32D 21X32D 11X33D 15X33D	Foreign Language - Spanish 3 Foreign Language - German 4 ET-DOS od 2022/23 Project 1 DOS Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS Project 3 DOS Project 3 DOS Project 3 DOS Project 3 DOS		15JZ3N 15JZ4F 15JZ4R COURS. 3 COURS. 3 14X31D 17X31D 21X31D 11X32D 15X32D 18X32D 22X32D 12X33D 16X33D	Min/Ma 8/8	Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 3 DOS	Jage - French 4 Jage - Russian Signature of the state of	4
15JZ3R 15JZ4I 15JZ4S X1-BP-D 11X31D 15X31D 18X31D 12X32D 12X32D 16X32D 20X32D 23X32D 14X33D 17X33D	Project 1 Description of the project 2 Description of the project 3 Descri	Projekty Bc OOS OOS OOS OOS OOS OOS OOS OOS OOS O	15JZ3S 15JZ4N 15JZ4N 15JZ4N 15JZ4N 15JZ4N 12X31D 16X31D 20X31D 23X31D 14X32D 17X32D 21X32D 11X33D 15X33D 18X33D	Foreign Language - Spanish 3 Foreign Language - German 4 ET-DOS od 2022/23 Project 1 DOS Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 3 DOS	Max.	15JZ3N 15JZ4F 15JZ4R Cours. 3 Cours. 3 14X31D 17X31D 21X31D 11X32D 15X32D 18X32D 22X32D 12X33D 16X33D 20X33D	Min/Ma 8/8	Project 1 DOS Project 1 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 3 DOS	Jage - French 4 Jage - Russian Signature of the state of	4
15JZ3R 15JZ4I 15JZ4S X1-BP-D 11X31D 15X31D 18X31D 12X32D 12X32D 16X32D 20X32D 23X32D 14X33D 17X33D	Project 1 Description of the project 2 Description of the project 3 Descri	Projekty Bc OOS OOS OOS OOS OOS OOS OOS OOS OOS O	15JZ3S 15JZ4N 15JZ4N 15JZ4N 15JZ4N 15JZ4N 12X31D 16X31D 20X31D 23X31D 14X32D 17X32D 21X32D 11X33D 15X33D 18X33D	Foreign Language - Spanish 3 Foreign Language - German 4 ET-DOS od 2022/23 Project 1 DOS Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 3 DOS	Max.	15JZ3N 15JZ4F 15JZ4R COURS. 3 14X31D 17X31D 21X31D 15X32D 18X32D 22X32D 12X33D 16X33D 20X33D 20X33D COURS.	Min/Ma 8/8	Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 3 DOS	Jage - French 4 Jage - Russian Signature of the state of	4
15JZ3R 15JZ4I 15JZ4S X1-BP-D 11X31D 15X31D 18X31D 12X32D 16X32D 20X32D 23X32D 14X33D 17X33D 21X33D	Project 1 Description of the project 2 Description of the project 3 Descri	Projekty Bc	15JZ3S 15JZ4N 15JZ4N 15JZ4N 15JZ4N 15JZ4N 12X31D 16X31D 20X31D 23X31D 14X32D 17X32D 21X32D 11X33D 15X33D 18X33D 22X33D	Foreign Language - Spanish 3 Foreign Language - German 4 ET-DOS od 2022/23 Project 1 DOS Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 3 DOS	Max.	15JZ3N 15JZ4F 15JZ4R 2 Cours. 3 Cours. 3 14X31D 17X31D 21X31D 15X32D 15X32D 12X33D 16X33D 20X33D 20X33D 20X33D 20X33D	Min/Ma 8/8	Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 3 DOS	Jage - French 4 Jage - Russian Signature of the state of	4
15JZ3R 15JZ4I 15JZ4S X1-BP-D 11X31D 15X31D 18X31D 12X32D 16X32D 20X32D 23X32D 14X33D 17X33D 21X33D	Project 1 Description of the project 3 Descri	Projekty Bc	15JZ3S 15JZ4N 15JZ4N 15JZ4N 15JZ4N 15JZ4N 12X31D 16X31D 20X31D 23X31D 14X32D 17X32D 21X32D 11X33D 15X33D 18X33D 22X33D	Foreign Language - Spanish 3 Foreign Language - German 4 ET-DOS od 2022/23 Project 1 DOS Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 3 DOS	Max.	15JZ3N 15JZ4F 15JZ4R COURS. 3 14X31D 17X31D 21X31D 15X32D 18X32D 22X32D 12X33D 16X33D 20X33D 20X33D COURS.	Min/Ma 8/8	Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 3 DOS	Jage - French 4 Jage - Russian Signature of the state of	ZP
15JZ3R 15JZ4I 15JZ4S X1-BP-D 11X31D 15X31D 18X31D 12X32D 16X32D 20X32D 23X32D 14X33D 17X33D 21X33D	Project 1 Description of the project 3 Descri	Projekty Bc	15JZ3S 15JZ4N 15JZ4N 15JZ4N 15JZ4N 15JZ4N 12X31D 16X31D 20X31D 23X31D 14X32D 17X32D 21X32D 11X33D 15X33D 18X33D 22X33D	Foreign Language - Spanish 3 Foreign Language - German 4 ET-DOS od 2022/23 Project 1 DOS Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 3 DOS	Max.	15JZ3N 15JZ4F 15JZ4R 2 Cours. 3 Cours. 3 14X31D 17X31D 21X31D 15X32D 15X32D 12X33D 16X33D 20X33D 20X33D 20X33D 20X33D	Min/Ma 8/8	Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 3 DOS	Jage - French 4 Jage - Russian Signature of the state of	ZP
15JZ3R 15JZ4I 15JZ4S X1-BP-D 11X31D 15X31D 18X31D 12ZX32D 12X32D 16X32D 20X32D 23X32D 14X33D 17X33D 21X33D	Project 1 Description of the project 1 Description of the project 1 Description of the project 2 Description of the project 3 Descri	Projekty Bc	15JZ3S 15JZ4N 15JZ4N 15JZ4N 15JZ4N 15JZ3S 15JZ4N 12X31D 16X31D 20X31D 23X31D 14X32D 17X32D 21X32D 11X33D 15X33D 18X33D 22X33D 18X33D	Foreign Language - Spanish 3 Foreign Language - German 4 ET-DOS od 2022/23 Project 1 DOS Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 3 DOS	Max.	15JZ3N 15JZ4F 15JZ4F 20Urs. 3 COURS. 3 14X31D 17X31D 21X31D 15X32D 18X32D 22X32D 12X33D 16X33D 20X33D 20X33D COURS. 4 COURS.	Min/Ma 8/8	Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 3 DOS	Jage - French 4 Jage - Russian	ZP PV
15JZ3R 15JZ4I 15JZ4S X1-BP-D 11X31D 15X31D 15X31D 12X32D 12X32D 12X32D 22X31D 12X32D 22X32D 23X32D 14X33D 17X33D 21X33D Y1-BP-D	Project 1 Description of the project 1 Description of the project 1 Description of the project 2 Description of the project 3 Descri	Projekty Bc OOS OOS OOS OOS OOS OOS OOS OOS OOS O	15JZ3S 15JZ4N 15JZ4N 15JZ4N 15JZ4N 15JZ4N 15JZ3S 16X31D 16X31D 20X31D 23X31D 14X32D 17X32D 21X32D 11X33D 15X33D 18X33D 22X33D 18X33D 22X33D	Foreign Language - Spanish 3 Foreign Language - German 4 ET-DOS od 2022/23 Project 1 DOS Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 3 DOS	Max.	15JZ3N 15JZ4F 15JZ4F 20Urs. 3 COURS. 3 14X31D 17X31D 21X31D 15X32D 18X32D 22X32D 12X33D 16X33D 20X33D 20X33D COURS. 4 20Y1AF	Min/Ma 8/8	Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 3 DOS AX Alternative For	age - French 4 lage - Russian	ZP PV
15JZ3R 15JZ4I 15JZ4S X1-BP-D 11X31D 15X31D 15X31D 12X32D 12X32D 12X32D 22X31D 12X32D 23X32D 14X33D 17X33D 21X33D Y1-BP-D	Project 1 Description of the project 1 Description of the project 1 Description of the project 2 Description of the project 3 Descri	Projekty Bc OOS OOS OOS OOS OOS OOS OOS OOS OOS O	15JZ3S 15JZ4N 15JZ4N 15JZ4N 15JZ4N 15JZ4N 12X31D 16X31D 20X31D 23X31D 14X32D 17X32D 21X32D 11X33D 15X33D 18X33D 22X33D Prezen ní TE	Foreign Language - Spanish 3 Foreign Language - German 4 ET-DOS od 2022/23 Project 1 DOS Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 3 DOS	Max.	15JZ3N 15JZ4F 15JZ4F 20Urs. 3 14X31D 17X31D 21X31D 15X32D 18X32D 22X32D 12X33D 20X33D 20X33D 20X33D 20Urs. 4 20Y1AF 12Y1AE	Min/Ma 8/8	Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 3 DOS	age - French 4 lage - Russian Base - Russian	ZP PV
15JZ3R 15JZ4I 15JZ4S X1-BP-D 11X31D 15X31D 15X31D 12X32D 12X32D 12X32D 22X31D 12X32D 14X33D 17X33D 21X33D Y1-BP-D 21Y1AM 18Y1AM 20Y1AE	Project 1 E Project 1 E Project 1 E Project 2 E Project 3 E Project 4 E Project 4 E Project 5 E Project 6 E Project 7 E Project 7 E Project 8 E Project 9 E Project 9 E Project 1 E Project 1 E Project 1 E Project 2 E Project 3 E Project 3 E Project 3 E Project 3 E	Projekty Bc	15JZ3S 15JZ4N 15JZ4N 15JZ4N 15JZ4N 15JZ4N 15JZ4N 12X31D 16X31D 20X31D 23X31D 14X32D 17X32D 21X32D 11X33D 15X33D 18X33D 22X33D 22X33D Prezen ní TE	Foreign Language - Spanish 3 Foreign Language - German 4 ET-DOS od 2022/23 Project 1 DOS Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 3 DOS	Max.	15JZ3N 15JZ4F 15JZ4F 20Urs. 3 14X31D 17X31D 21X31D 15X32D 18X32D 22X32D 12X33D 20X33D 20X33D 20X33D 20Urs. 4 20Y1AF 12Y1AE 15Y1BO	Min/Ma 8/8	Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 3 DOS	rms of Transpo	ZP PV
15JZ3R 15JZ4I 15JZ4S X1-BP-D 11X31D 15X31D 15X31D 18X31D 22X31D 12X32D 16X32D 20X32D 23X32D 14X33D 17X33D 21X33D Y1-BP-D 21Y1AM 18Y1AM 20Y1AE 11Y1BK	Project 1 Deproject 1 Deproject 2 Deproject 3 Deprojec	Projekty Bc	15JZ3S 15JZ4N 15JZ4N 15JZ4N 15JZ4N 15JZ4N 15JZ4N 12X31D 16X31D 20X31D 23X31D 14X32D 17X32D 21X32D 11X33D 15X33D 18X33D 22X33D Prezen ní TE	Foreign Language - Spanish 3 Foreign Language - German 4 ET-DOS od 2022/23 Project 1 DOS Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 3 DOS	Max.	15JZ3N 15JZ4F 15JZ4F 20Urs. 3 14X31D 17X31D 21X31D 11X32D 15X32D 12X33D 16X33D 20X33D 20X33D 20X33D 20Urs. 4 20Y1AF 12Y1AE 15Y1BO 14Y1BM	Min/Ma 8/8	Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 3 DOS	rms of Transpo	ZP PV
15JZ3R 15JZ4I 15JZ4S X1-BP-D 11X31D 15X31D 18X31D 22X31D 12X32D 16X32D 20X32D 20X32D 23X32D 14X33D 17X33D 21X33D Y1-BP-D 21Y1AM 18Y1AM 20Y1AE 11Y1BK 15Y1DZ	Project 1 Description of the project 1 Description of the project 2 Description of the project 3 Description of the project 4 Descri	Projekty Bc Projekty Bc	15JZ3S 15JZ4N 15JZ4N 15JZ4N 15JZ4N 15JZ4N 15JZ4N 16X31D 16X31D 20X31D 14X32D 17X32D 21X32D 11X33D 15X33D 18X33D 22X33D 18X33D 22X33D 14Y1AV 14Y1BE 21Y1BS 12Y1DS	Foreign Language - Spanish 3 Foreign Language - German 4 ET-DOS od 2022/23 Project 1 DOS Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 3 DOS	Max.	15JZ3N 15JZ4F 15JZ4F 20Urs. 3 14X31D 17X31D 21X31D 11X32D 15X32D 12X33D 20X33D 20X33D 20X33D 20X33D 20Urs. 4 20Y1AF 12Y1AE 15Y1BO 14Y1BM 17Y1EV	Min/Ma 8/8	Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 3 DOS Project 4 DOS Project 4 DOS Project 4 DOS Project 5 DOS Pr	rms of Transpo	PV Prtat
15JZ3R 15JZ4I 15JZ4S X1-BP-D 11X31D 15X31D 18X31D 22X31D 12X32D 16X32D 20X32D 23X32D 14X33D 17X33D 21X33D Y1-BP-D 21Y1AM 18Y1AM 20Y1AE 11Y1BK 15Y1DZ 23X1EH	Project 1 Description of the project 3 Description of the project 4 Descri	Projekty Bc	15JZ3S 15JZ4N 15JZ4N 15JZ4N 15JZ4N 15JZ4N 15JZ4N 15JZ4N 12X31D 16X31D 20X31D 23X31D 14X32D 17X32D 21X32D 11X33D 15X33D 18X33D 22X33D prezen ní TE 00Y1XB 14Y1AV 14Y1BE 21Y1BS 12Y1DS 20Y1EK	Foreign Language - Spanish 3 Foreign Language - German 4 ET-DOS od 2022/23 Project 1 DOS Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 3 DOS	Max.	15JZ3N 15JZ4F 15JZ4F 20Urs. 3 14X31D 17X31D 21X31D 15X32D 18X32D 22X32D 12X33D 20X33D 20X33D 20X33D 20Urs. 4 20Y1AF 12Y1AE 15Y1BO 14Y1BM 17Y1EV 16Y1EN	Min/Ma 8/8	Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 3 DOS Project 4 DOS Project 4 DOS Project 4 DOS Project 5 DOS Pr	rms of Transpo	PV Prtat
15JZ3R 15JZ4I 15JZ4S X1-BP-D 11X31D 15X31D 18X31D 12X32D 16X32D 20X32D 23X32D 14X33D 17X33D 21X33D	Project 1 E Project 1 E Project 1 E Project 2 E Project 3 E Project 4 E Project 5 E Project 6 E Project 7 E Project 7 E Project 8 E Project 9 E Projec	Projekty Bc Projekty Bc	15JZ3S 15JZ4N 15JZ4N 15JZ4N 15JZ4N 15JZ4N 15JZ4N 16X31D 16X31D 20X31D 14X32D 17X32D 21X32D 11X33D 15X33D 18X33D 22X33D 18X33D 22X33D 14Y1AV 14Y1BE 21Y1BS 12Y1DS	Foreign Language - Spanish 3 Foreign Language - German 4 ET-DOS od 2022/23 Project 1 DOS Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 3 DOS	Max.	15JZ3N 15JZ4F 15JZ4F 20Urs. 3 14X31D 17X31D 21X31D 11X32D 15X32D 12X33D 20X33D 20X33D 20X33D 20X33D 20Urs. 4 20Y1AF 12Y1AE 15Y1BO 14Y1BM 17Y1EV	Min/Ma 8/8	Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 3 DOS Project 4 DOS Project 4 DOS Project 4 DOS Project 5 DOS Pr	rms of Transpo gy nd Health Prothods Economy rements of Veh	PV Prtat

16Y1IS	Interactive simulators and simul	12Y1KN	Combined Transportation	12Y1KP	Communication and Promotion of T
20Y1KP	Communication and presentation s	23Y1KM	Crisis Management	23Y1KO	Quantum Physics and Optoelectron
23Y1KY	Cybernality	23Y1KB	Cyber security in transportation	21Y1LJ	Aeronautical Radio and Flight In
21Y1LS	Air Traffic Services	17Y1LL	Logistics of Passenger and Freig	20Y1LN	Location and Navigation
23Y1MK	Crisis Situation Management in C	23Y1MU	Emergency Events Management Solu	17Y1MD	Marketing in Transportation
18Y1MT	Engineering Materials	21Y1MP	Matlab for project-oriented stud	14Y1MP	Modeling Complex Assemblies and
15Y1MK	Modern History in Context: Every	15Y1NE	German in the Economy and Societ	21Y1OH	Airline Business and Operations
23Y1OK	Protection of Critical Objects a	20Y1OI	Fare Collection and Information	14Y1OJ	Object - oriented programming in
14Y1OP	Operating System	17Y1OF	Personal Finance	20Y1OK	Road Lighting
11Y1PV	Parametrical and Multicriterial	17Y1PM	Personnel Management	12Y1PC	Pedestrian and Cycling Transport
14Y1PG	Computer Graphics	14Y1P2	Computer Aid of Transportation P	18Y1PS	Computer Simulations in Mechanic
14Y1PI	Corporate Information System	14Y1PZ	Advanced Data Processing in Spre	21Y1PC	ATC Procedures and Activities
12Y1PD	Assessment of Transport Structur	20Y1PK	Product Quality Management Proce	14Y1PJ	C Programming Language
12Y1C1	Designing Roads in Civil 3D I	12Y1C2	Designing Roads in Civil 3D II	14Y1PA	3D Modeling in AutoCAD
16Y1PV	Operation, Construction and Main	21Y1PA	Air Traffic Control Operating Pr	12Y1PU	Organization Disposition of Rail
12Y1RU	Railway Lines Reconstruction	16Y1RE	Control and Electronic Vehicle S	21Y1RZ	Human Resources Management
17Y1ST	Titan Simulation	21Y1SI	ATC Simulator	20Y1SC	Sensors and Actuators
17Y1SL	Sociology of Human Resources	11Y1SI	Transportation Software Engineer	16Y1KS	Quality and Reliability of Vehic
12Y1SU	Road Management and Maintenance	16Y1SO	Strategy and innovation in mobil	17Y1SK	Urban and Regional Rail Transpor
21Y1TH	Aircraft Technical Handling	11Y1TG	Graph Theory	23Y1TP	Criminal Law in IT and Transport
14Y1TI	Creating Interactive Internet Ap	21Y1UL	Aircraft Maintenance	14Y1UP	Editing of Theses in MS Word
18Y1UK	Introduction of Rail Vehicles	12Y1VR	Public Transport in Cities and R	23Y1VS	Negotiation and Cooperation
14Y1VM	Development of Applications for	16Y1VT	Development in Railroad Vehicles	14Y1WG	Webdesign
14Y1W1	Webdesign 1	14Y1W2	Webdesign 2	16Y1ZG	Introduction into Applied Comput
14Y1ZM	Fundamentals of parametric and a	11Y1ZM	Foundation of MATLAB Programming	14Y1ZJ	Fundamentals of programming in J
12Y1ZU	Principles of Urbanism	15Y1ZV	East-West dichotomy: Prelude to	16Y1ZL	Vehicle Testing, Legislation and

List of courses of this pass:

Code	Name of the course	Completion	Credits
00Y1XB	Active participation in a scientific project, workshop, short-term trip abroad	KZ	2
11CAL1	Calculus 1	Z,ZK	7
Sequence of real n	umbers and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative. Indefinite integral, Newton integral and its limit and derivative. Indefinite integral, Newton integral, Pirst-order differential equations, linear differential equations.	gral, Riemann integ	ral, imprope
11CAL2	Calculus 2	Z,ZK	5
Linea	ir differential equations and their systems, differential calculus of functions of several real variables. Riemann integral in Rn. Line and	surface integrals.	,
11EMOP	Electromagnetic Field and Optics Electric field. Electric current. Magnetic field. Electromagnetic field. Optics. Basics of solid-state physics.	Z,ZK	4
11FYZ	Physics	Z,ZK	5
	Kinematics, dynamics, Newton's laws, force fields, mechanics of continuum, thermodynamics, introduction to electrostatics and electrostatics and electrostatics.	1 '	1
11GIE	Geometry	KZ	3
Differential geome	etry of curves - parameterization, the arc of the curve, torsion and curvature, Frenet`s trihedron. Kinematics - a curve as a trajectory acceleration of a particle moving on a curved path.	of the motion, the v	elocity, and
11LA	Linear Algebra	Z,ZK	3
Vector spaces (line	ear combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and the their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classifica	•	minants and
11MDSD	Collecting and Processing of Traffic Data	KZ	3
Basic prine	ciples of traffic detection and data collection, specific problems of the field of traffic data. Data preprocessing and analysis for use in	additional application	ons.
11MSP	Modeling of Systems and Processes	Z,ZK	4
	stem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differ nlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer functi Discretization of continuous systems. System interconnection.		
11SCFZ	Seminar of Physics	Z	0
	Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermoc	dynamics.	1
11SEMO	Seminar of Electromagnetic Field and Optics Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.	Z	0
11SSF	Secondary School Physics Course	Z	0
	Basics of kinematics, dynamics, thermodynamics, electric field and magnetic field.	1	1
11STAT	Statistics	Z,ZK	4
Basics of probabi	lity Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Parame	etric tests Nonparar	netric tests
	Regression and correlation analysis		
11X31D	Project 1 DOS	Z	2
11X32D	Project 2 DOS	Z	2
11X33D	Project 3 DOS	Z	4

44V4DI/	Firms Datastian Codes for Interloging Systems	1/7	2
11Y1BK	Error Detection Codes for Interlocking Systems	KZ	. 2
Safe communication	on and methods for its assuring. Safety codes linear codes, cyclic codes, BCH codes, Reed-Solomon codes. Transmission channels, de		ssion errors,
	probability of undetected error. Design and assessment of detection codes; requirements of the European standard EN 5018	59.	
11Y1PV	Parametrical and Multicriterial Programming	KZ	2
Solution to the prob	olem of linear programming with a parameter in objective function, on right sides and in the matrix of coeficients of linear constraints. Oc	mputation of effici	ent solution.
11Y1SI	Transportation Software Engineering	KZ	2
	software engineering, ranging from domain analysis, requirement analysis and software architectures to analyses, design and implemen		
basic correcpts or c		itation asing lorina	rtccririques
	and practical usuage.		
11Y1TG	Graph Theory	KZ	2
	d terminology of graph theory, graph representation. Problems of graph theory, problem instance. Graph search algorithms, trees, mir		
path problem, Eule	rian path, bipartite graph matching, flow networks, circulations, critical path method, traveling salesman problem. Problem of existence a	nd optimization and	d algorithms
	for their solving. Computational complexity, dealing with NP-complete problems, heuristic approach.		
11Y1ZM	Foundation of MATLAB Programming	KZ	2
	ciple of algorithmization, flow charts, description of MATLAB environment and its settings, MATLAB help, mathematical operators, matr		
TO CAPIGIT THE PITT	control flow, inputs and outputs, graphics, optimization and program code debugging.	ioos and cicinonis	operations,
10000		7 714	
12DOSI	Traffic Surveys and Simulations	Z,ZK	3
-	ection in road transport. Traffic surveys. Automatic traffic counting. Preparation and implementation of traffic survey. Description of indi-		
practical example	es from real measurements. Methods of data processing and evaluation. Principles of simulation, SW environment for creating traffic	models. Traffic mod	del design
	procedure, calibration. Processing of a simple transport model based on real data.		
12MDE	Transport Models and Transport Excesses	Z.ZK	3
	traffic flow and methods for their measurement. Models of the traffic flow, communications load, line and urban systems. Theory of qu	,	_
	assessment. Statistical characteristics of transport. Transport excesses, their analysis, the causes, identify and minimize the consequences.		•
transport and its a		ences. Improving o	ı transport
	safety and fluency.		
12MKOD	City Rail Transport	Z,ZK	5
City and suburba	an rail transport. Tram lines layout and city roads. Tram track geometry parameters. Tram track superstructure. Turnouts and other con	struction of tram lin	nes. Tram
stops and turn space	ce. Underground and its basic characteristics. Underground nets in the world and undeground history in Prague. Underground track geom	netry parameters. U	Inderground
	track superstructure and substructure. Underground stations. Suburban rail transport.	• •	J
12POSD		KZ	3
	Assessment of Transport Structures		_
	orical context, impact and variants, analysis of individual phases of EIA process, SEA, legislative framework in the Czech Republic, EU		
EU directives, publi	ic participation, process in practice. Methods of assessing the effects of transport structures on the environment. SWOT analysis. Multici	riteria methods for	assessment
	of transport structures, TUKP method. Risk analysis. Landscape.		
12PPOK	Designing Roads, Highways and Motorways	KZ	3
Definition, types,	ownership, maintenance, management and categorization of roads and highways. Curve and transition curve. Sinuosity and standard	speed. Route in r	ural areas.
	stopping and overtaking. Road body - shapes and proportions, bottom and superstructure. Drainage and components of roads. Safet		
	intersections.	,	-, ,,
12PRMK		Z.ZK	5
	Urban Road Traffic and Design	, ,	_
Composition of urb	pan road, elements and routes for traffic, pedestrian and cycling transport, projection of intersections, traffic lights and its traffic safety p	•	uts, calming
	of traffic, precaution for blind & partially-sighted, parking, traffic area, induction of traffic, organization and regulation of traffic	sport.	
12PUSS	Organization Disposition of Railway Stations	KZ	3
Connecting station	on. Passenger transport equipment. Freight transport equipment. Branch lines and railway traffic inside industrial company areas. Zon	e stations. Format	ion yards.
Rese	rve stations. Technology of work in railway station with regard to its disposition. Railway station documentations in the Czech Republic	railway network.	
12SDK	Highways, Motorways and Intersections	Z,ZK	4
	rays network, transport output. Types of direction curves. Hairpin bend. Stopping sight distance and overtaking sight distance. Levels of t		
		`	
or crossroads an	d intersections. Crossroads. Roundabouts. Intersections. Special types of junctions. Capacity of crossroads and intersections. Structu	re or pavement or	roads and
	motorways. Road engineering structures. Assessment of route alternatives.		
12VHD	Public Transport	Z,ZK	5
Importance of pu	iblic transport, transport research, evaluation, planning of lines routes and territory operation, planning of operation parameters, prepa	aration of operation	n, network
conceptions, opera	ation-technology and operation-economically conditions of planning of operation conceptions, planning of operation conception, planin	g and realisation of	ftimetables
		0	
10V21D	prepare of intrastrukture (route, stops), preference of public transport, financing.		timotablee,
	prepare of infrastrukture (route, stops), preference of public transport, financing.	7	
12X31D	Project 1 DOS	Z	2
12X31D 12X32D	Project 1 DOS Project 2 DOS	Z	
12X32D	Project 1 DOS Project 2 DOS	Z	2
12X32D 12X33D	Project 1 DOS Project 2 DOS Project 3 DOS	Z Z	2 2 4
12X32D 12X33D 12Y1AE	Project 1 DOS Project 2 DOS Project 3 DOS Applied Ecology	Z Z KZ	2 2 4 2
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12Y1KN	Combined Transportation	KZ	2
	port strategy and legislation. Load units. Means of transport in combined transport. Combined transport systems. Transshipping areas.		1
12Y1KP	Communication and Promotion of Transport Projects Public Relations and the power of public opinion. Work and tasks of PR department and press spokesperson. Communication with the	KZ	lic on social
	round. Communication strategy of transport projects. Systematic goodwill building. Crisis situations in communication and preparation for	•	
Í	influence of political marketing and political PR on transport projects. Lobbing.		
12Y1PC	Pedestrian and Cycling Transport	KZ	2
	ans. Pedestrian crossings. Modifications for blind, dim-sighted and disabled people. Design of cycle routes network. Ways of cycle route	-	-
for cyclists. Separ	ration of cyclists from other transport modes. Cycle tracks and its design - one way streets, reserved traffic lanes, bus stops, crossings	with other trans	port modes,
	crossroads. Traffic signs and road marking for cyclists.		
12Y1PD	Assessment of Transport Structures	KZ	2
	sport structures, the EIA process. Multicriteria assessment methods, risk analysis, SWOT analysis. Landscape character, possibilities of s on the landscape. Rating fragmentation and landscape connectivity in the preparation of linear structures. Practical examples of ass	•	
ransport structure	the environment.	essinent of traint	, buildings o
12Y1PU	Organization Disposition of Railway Stations	KZ	2
_	on. Passenger transport equipment. Freight transport equipment. Branch lines and railway traffic inside industrial company areas. Zon		1
-	rve stations. Technology of work in railway station with regard to its disposition. Railway station documentations in the Czech Republic		-
12Y1RU	Railway Lines Reconstruction	KZ	2
Keeping railway li	ne operational, maintaining lines and stations, geometrical alignment of railway line, vehicles for railway superstructure and substructure.	ure maintenance	, scheduling
	and organising possesions, preparation of railway lines reconstruction and maintenance, process of ralway line reconstruction	n.	
12Y1SU	Road Management and Maintenance	KZ	2
-	with ownership of roads in the Czech Republic and the administration of the road at the state and county level. It is presented develope		
nedium and long-t	erm strategy of the Ministry of Transport. Maintenance of roads winter and summer, its requirements, specifics, possibilities and repair	methods are dis	cussed in th
40)(1)(D	classroom as well as investment activity in highway engineering.	1/7	
12Y1VR	Public Transport in Cities and Regions	KZ	2
	political pillars of public transport. Accessibility of public transport. Transport demand management and directional coordination of line arameters and transport variations. Types of lines according to their routing and basic operating parameters. Time coordination of line	•	-
basic operating p	Organization of tram operation in Prague. Tram safety.	3. Operational tra	anic control.
12Y1ZU	Principles of Urbanism	KZ	2
	of city and settlement building. Functional components and their mutual relations (working, living, recreation, transportation). Spacial		
, ,	Types of towns or cities with a certain prevailing function, forms of their development. Brief overview of land-use planning.	J	
12ZAR	Introduction to Architectural Design	Z	3
Urbanism and	architecture of traffic systems. Bus and trolley-bus transport. Tramway and town tracks. Design of vehicles. Subway. Railway transport	t. Railway station	s. Local
	communications. International airports.		
12ZELP	Railway Operation	Z,ZK	4
		,	
Legislation in rail	way transport. Railway vehicles. Railway signals and signal devices. Railway traffic organisation and operation. Simplified railway traffic	,	
	brakes. Railway vehicles marking. Operation intervals. Theoretical graph of train running.	operation. Railv	vay vehicles
12ZTS	brakes. Railway vehicles marking. Operation intervals. Theoretical graph of train running. Railway Lines and Stations	z operation. Railv	vay vehicles
12ZTS	brakes. Railway vehicles marking. Operation intervals. Theoretical graph of train running. Railway Lines and Stations ailway track geometry parameters. Route layout of railway lines. Railway line construction - railway substructure and superstructure. S	Z,ZK patial layout of ra	vay vehicles
12ZTS Rail transport. R	brakes. Railway vehicles marking. Operation intervals. Theoretical graph of train running. Railway Lines and Stations ailway track geometry parameters. Route layout of railway lines. Railway line construction - railway substructure and superstructure. S Railway control systems in relation to infrastructure. Operating and carriage points. Railway lines net and category. Traction in rail tr	Z,ZK patial layout of ra	vay vehicles 4 illway lines.
12ZTS Rail transport. R	brakes. Railway vehicles marking. Operation intervals. Theoretical graph of train running. Railway Lines and Stations ailway track geometry parameters. Route layout of railway lines. Railway line construction - railway substructure and superstructure. S Railway control systems in relation to infrastructure. Operating and carriage points. Railway lines net and category. Traction in rail tr Introduction to Transportation Engineering	Z,ZK patial layout of ra	4 uilway lines.
12ZTS Rail transport. R	brakes. Railway vehicles marking. Operation intervals. Theoretical graph of train running. Railway Lines and Stations ailway track geometry parameters. Route layout of railway lines. Railway line construction - railway substructure and superstructure. Some Railway control systems in relation to infrastructure. Operating and carriage points. Railway lines net and category. Traction in rail transportation to Transportation Engineering Introduction to Transportation Engineering Introduction to topic of roads, put	Z,ZK patial layout of ra	4 uilway lines.
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14Y1AV	Animation and Visualization	KZ	2
Advanced modifica	tions and modeling of NURBS, Patch objects, selection of objects (according to filter and properties). 3D Studio MAX systems and Spa	ace Warp objects. A	Atmospheric
and other effect	s, rendering filters, Motion blur, advanced animations, Motion panel. Modeling for morphing and animation, bone formation, animatior	n using Inverse Kin	ematics.
14Y1BE	Barrierless Transport	KZ	2
	! ·		
	rless accessible public transportation in terms of architectural barriers and also for transportation-technological point of view. Students	J	١
of barrierless enviro	onment roads, railway stations, public transport stops, terminal buildings, vehicles, public transport, information and orientation systems	and transportation	technology.
	Theoretical knowledge will be supplemented by practical examples.		
14Y1BM	Biometric Methods	KZ	2
	rms, authentication methods, principles and performance measurement of biometric systems, overview of biometric technologies, ha		
		•	
reuna recognition n	nethod, 2D and 3D face recognition, vein patterns on the wrist, ear biometrics, fingerprint recognition, skin spectroscopy, behavioral r	nemous, the use o	Diometrics
	in transport applications, safety and risks of biometric technologies.		
14Y1HW	Computer Hardware	KZ	2
Computer archite	scture, basics of logical circuits design and their realization using FPGA. In detail, description of computer architecture and separate	narts designing - c	ontrollers
oompator arount	arithmetic and logical units, I/O subsystem.	santo accigimig	,
14Y1MP	Modeling Complex Assemblies and Models in Parametric Modeller	KZ	2
Assemblies prog	gramming - tools and methodology of working subassemblies and assemblies, sheet metal parts modelling, welded assemblies, pipe	lines, and distributi	ion lines.
	Photorealistic output rendering - physical and material properties, lighting sources. MKP - visual example.		
14Y1OJ	Object - oriented programming in JAVA	KZ	2
	Encapsulation. Classes. Attributes. Access modifiers. Methods and overloading. Special methods (constructors, getters / setters). Ba	-	
data types. Inherita	ince. Polymorphism. Statics, constants, interfaces, abstract classes, enum, packages, exceptions, collections, generics, lambda expre	essions, anonymou	s functions.
14Y10P	Operating System	KZ	2
	stallation GNU/Linux OS. X-window system. Rights management - users and groups, ACL rights. Filesystems and attributes. Program		
		•	
runieveis. basic (console programs / commands. Config files. SW management, package systems. Programs in graphic shell - text, spreadsheet, graph	lic editors, sound,	video and
	communication. Services management. Safe and secure configuration of OS. Remote administration.		
14Y1P2	Computer Aid of Transportation Projecting 2	KZ	2
	oplication for transportation projecting aid. AutoCAD environment possibilities of basic tasks automatizing (programming, scripting, dat	a exchange). Adva	nced blocks
	utes, relation to databases). Work in projecting group, external references. Basic tasks for cummunication projecting (clotoidic transition		
modification (attribu		ii cui ve, cioss-aiiu	iorigitudiriai
	section). Basics of 3D modelling.		
14Y1PA	3D Modeling in AutoCAD	KZ	2
Work in 3D non-p	arametric modeller (AutoCAD) environment, scenes rendering, creation of planar and volumetric objects, user setup creation, object	data creation, work	k with data
	connected with external database. Basic definition of work with lights, materials and reflexes. Models presentation.		
4.4\/4.D.C		1/7	
14Y1PG	Computer Graphics	KZ	2
Basic formats of	graphic and possibilities of their editing and mutual conversion. Use of individual types according to character of work. Work with editi	ng programs (withi	n the user
	level scope) using layers, DPI, colors. Basics of digital photography, scanning and computer technology like monitors and graphic	s cards.	
14Y1PI	Corporate Information System	KZ	2
	on-knowledge, components of information system, syntatic and semantic sense of data, structure of corporate information system, pa		
Data-IIIIOIIIIatio		rticulai iriioriilation	i systeiii
(personalistic, prod	luction, storage, etc.), corporate information politic and information control, risks of information system operation, legal environment of	information syster	n operation,
(personalistic, prod	luction, storage, etc.), corporate information politic and information control, risks of information system operation, legal environment of state information system, information system security, data protection, safety politics.	information syster	n operation,
	state information system, information system security, data protection, safety politics.	,	
14Y1PJ	state information system, information system security, data protection, safety politics. C Programming Language	KZ	2
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14Y1PJ	state information system, information system security, data protection, safety politics. C Programming Language guage. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation, strir	KZ ng, files, structures	2
14Y1PJ C programming lan	state information system, information system security, data protection, safety politics. C Programming Language guage. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation, strir Implementations of abstract data types (FIFO, LIFO, LIST), programming techniques (sorting, searching, recursion), using bitwise operations.	KZ ng, files, structures prerators. KZ	2 and unions.
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14Y1PJ C programming lan 14Y1PZ Students will be addressing, error d 14Y1TI Possibilities of scrip 14Y1UP Students will be figures, tables, grap 14Y1VM Object oriented p 14Y1W1 Students will learn and selectors 14Y1W2 Students will learn 14Y1WG Students will learn 14Y1WG Students will learn 14Y1UG Students will learn 14Y1WG Students will learn 14Y1WG Students will learn	state information system, information system security, data protection, safety politics. C Programming Language guage. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation, strir Implementations of abstract data types (FIFO, LIFO, list), programming techniques (sorting, searching, recursion), using bitwise of Advanced Data Processing in Spreadsheets familiar with principles of working in a spreadsheet. Graphic layout of the table appearance, formatting of numbers, insertion of formetection. Working with large spreadsheets, filters, advanced filters, database functions. Pivot tables and charts, conditional formatting, so data analysis. Examples and questions from various companies and training. Creating Interactive Internet Applications ting language PHP. Overview of PHP language syntax, and functions. Analysis of finished scripts and demonstration of solutions. You in PHP language. Editing of Theses in MS Word introduced to the principles of creating and editing large documents and basic typographic rules. They will properly apply styles, creating, etc. Footnotes, captions, index. They practice corrections of finished documents. The goal is to prepare students for seamless educated to the principles of creating and editing large documents and basic typographic rules. They will properly apply styles, creating, etc. Footnotes, captions, index. They practice corrections of finished documents. The goal is to prepare students for seamless educated to the principles of creating and editing large documents and basic typographic rules. They will properly apply styles, creating, etc. Footnotes, captions, index. They practice corrections of finished documents. They goal is to prepare students for seamless educated to the principles of creating and editing large documents. They will properly apply styles, creating and editing a thesis. Development of Applications for Mobile Devices programming, Java programming language, development environment, oper	KZ ng, files, structures orerators. KZ ulas and functions, solution finding, soluti	and unions. 2 including ver, macros, 2 trogrammed 2 ts, lists of and theses, 2 ds, menu, 2 S properties mples. 2 configuration 2 esponsive 2 ersion. Text functions, 2
14Y1PJ C programming lan 14Y1PZ Students will be addressing, error d 14Y1TI Possibilities of scrip 14Y1UP Students will be figures, tables, grap 14Y1VM Object oriented p 14Y1W1 Students will learn and selectors 14Y1W2 Students will learn 14Y1WG Students will learn 14Y1WG Students will learn 14Y1UG Students will learn 14Y1WG Students will learn 14Y1WG Students will learn	state information system, information system security, data protection, safety politics. C Programming Language guage. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation, strir Implementations of abstract data types (FIFO, LIFO, list), programming techniques (sorting, searching, recursion), using bitwise or Advanced Data Processing in Spreadsheets familiar with principles of working in a spreadsheet. Graphic layout of the table appearance, formatting of numbers, insertion of formatting, so data analysis. Examples and questions from various companies and charts, conditional formatting, so data analysis. Examples and questions from various companies and training. Creating Interactive Internet Applications Toreating Interactive Internet Applications Sting language PHP. Overview of PHP language syntax, and functions. Analysis of finished scripts and demonstration of solutions. You in PHP language. Editing of Theses in MS Word Introduced to the principles of creating and editing large documents and basic typographic rules. They will properly apply styles, creatings, etc. Footnotes, captions, index. They practice corrections of finished documents. The goal is to prepare students for seamless etc. So that they are able to concentrate mainly on writing a thesis. Development of Applications for Mobile Devices programming, Java programming language, development environment, operating system Android, development application - widgets, permissions, services, Gul. Webdesign 1 the basics of communication HTTP, URL and addressing, markup languages HTML and XHTML, HTML tags, rules of web accessibility, the issue of web browsers, creating one to three column layout pages, sites validation, conditional comments. Topics will be practice Webdesign In the basics of HTTP communication, URL and addressing, HTML5 markup language, advanced CSS3 techniques, accessible and u webdesign, content management systems, web server installation + configuration directi	KZ ng, files, structures orerators. KZ ulas and functions, solution finding, soluti	and unions. 2 including ver, macros, 2 trogrammed 2 ts, lists of and theses, 2 ds, menu, 2 S properties mples. 2 configuration 2 esponsive 2 ersion. Text functions, 2

14ZDA	Data Processing	Z	3
	processing and analysis tools. Practical part of the training - introduction to the working environment, applied examples of data proce ods of presentation of the results. Seminar papers on open data. Consultation hours for seminar papers. Seminar paper submission a		, auvanceu
15DPLG	Transportation Psychology	Z Z	2
	igy and its basic concepts. Information intake, decision-making and behaviour. Performance. Engineering psychology and vehicle const El route and traffic conditions, accidents and traffic incidents. Selection and training of the staff. Work and leisure. Age as a factor in tr	· -	icai aspecis
15JZ1A	Foreign Language - English 1	Z	3
Grammatical Struct	ures and Style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and co stylistics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles of		Elementary
15JZ2A	Foreign Language - English 2	Z,ZK	3
	ures and style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and co	mmunicative skills.	
45 1705	stylistics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles of		0
15JZ3F Grammar and styl	Foreign Language - French 3 stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of le	Z anguage structure l	3 knowledge
·=	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work		- 1
45 1701	features. Practice of oral and written presentation.	Z	
15JZ3I Grammar and styl	Foreign Language - Italian 3 stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of le		3 knowledge
·=	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work		- 1
45 1701	features. Practice of oral and written presentation.		0
15JZ3N Grammar and styl	Foreign Language - German 3 stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of Is	Z anguage structure l	3 knowledge
•	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v		
	features. Practice of oral and written presentation.		
15JZ3R	Foreign Language - Russian 3 stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of le	Z Z	3 knowledge
·=	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v		- 1
	features. Practice of oral and written presentation.		
15JZ3S	Foreign Language - Spanish 3	Z	3
·=	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lad communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v		- 1
	features. Practice of oral and written presentation.		
15JZ4F	Foreign Language - French 4	Z,ZK	3
·=	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lad communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work		- 1
and porcoparo an	features. Practice of oral and written presentation.	Titir (protocoloridi) t	ioni una no
15JZ4I	Foreign Language - Italian 4	Z,ZK	3
-	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lad communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work		- 1
and perceptive and	features. Practice of oral and written presentation.	vitii (proiessioriai) t	lext and its
15JZ4N	Foreign Language - German 4	Z,ZK	3
-	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of leading to the second of the second o		- 1
and perceptive an	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v features. Practice of oral and written presentation.	vitii (proiessioriai) t	lext and its
15JZ4R	Foreign Language - Russian 4	Z,ZK	3
·=	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of li		- 1
and perceptive an	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work features. Practice of oral and written presentation.	with (professional) t	text and its
15JZ4S	Foreign Language - Spanish 4	Z,ZK	3
•	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language level and study focus at the Faculty.	anguage structure	
and perceptive an	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work features. Practice of oral and written presentation.	with (professional) t	text and its
15X31D	Project 1 DOS	Z	2
15X32D	Project 2 DOS	Z	2
15X33D	Project 3 DOS	Z	4
15Y1BO	Work Safety and Health Protection in Transportation	KZ	2
Fundamental legis	lative, definition of terms, risks and possible health damage, working conditions and health protection with focus on transportation. H health insurance of home and foreign business trips, statistics, working practice.	ealth protection pro	ogrammes,
15Y1DZ	History of Railway	KZ	2
	vays, steam railways, railway network development in the 2nd half of 19th century, regional railways epoch, railways of the "First Rep		
War II railways, rail	way development in the 2nd half of 20th century, high-speed railway origins, railway lines closing, important long-distance train connecti	ons, railway lines co	onstruction,
15Y1EH	railway accidents, railway junctions. Excursions and projections. European Integration within Historical Context	KZ	2
	formation of new states. Europe and the powers, League of Nations. European policy in the 1920s. Fascism, nacism, communism. Li		
goals. Europe after	er Hitler's getting to power, system of bilateral agreements. Decline of the LN. Rearrangement of powers during WWII. Cold war and i	s consequences fo	or Europe.
15Y1FD	New quality of French-German relationship - a driving power of starting European integration. French Area Studies and Transportation	KZ	2
	hy and regions, transport infrastructure. Paris and its sights, city public transport. Road traffic, motorways, railway traffic, TGV, air traf		
Frei	nch society and culture. Current political system. System of education, studying in France. Selected authors of French literature. French	ch gastronomy.	

45V4LID	History of City Mass Transport	1/7	
15Y1HD	History of City Mass Transport	KZ	2
	s transport in the world, development of tram, bus and trolley-bus systems. History of transport networks in the world, current trends		of tariff and
cleara	ince systems. History of city transport in Prague and Brno. History of tram, bus and trolley-bus operation systems in the Czech Repul	blic and Slovakia.	
15Y1HE	Work Hygiene and Ergonomics in Traffic	KZ	2
Basic knowledge	of occupational hygiene and ergonomics, and their application in transport. Working environment factors, and the influence of these	r factors on health c	of workers.
_	ction of working conditions that do not damage public health. Mutual links: man-machine-environment. Adaptation of technology to p		
	Practical examples from the field of transportation; relevant legislature.		
4574111		1/7	
15Y1HL	History of Civil Aviation	KZ	2
	g, development of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of a		
World airports. Fa	amous aviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era o	f aviation. Golden	era of civil
	aviation. Modern era of civil aviation. Airline companies. Supersonic flying.		
15Y1MK	Modern History in Context: Every Day Life and Transport	KZ	2
'	Historical overview of modern history of every day life, science, technology and transport in a wider context.	'	'
15Y1NE	German in the Economy and Society	KZ	2
	and social issues of German speaking countries and of the EU. Reading and listening of texts. Lexical, grammatical and semantic ar	l	1
Recent economic		ialysis of texts. Dis	cussion on
	selected topics.		_
15Y1ZV	East-West dichotomy: Prelude to the Cold War	KZ	2
Historical prologue,	, evolution of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continu	ity of the internatio	nal relations
in the end of 19th	century and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the	e causes and cons	sequences.
	Economic and financial history. Social changes. Discussions on texts, sources.		
16DOKY	Vehicle Technology	Z,ZK	5
	enclature in transportation technology. Vehicle in legislation. Design. Operation. Influence on environment. Vehicle and ecology. Traction	'	_
recinical norm	combustion engines, electric engines, change of energy principles. Powertrain construction. Power transmission. Brake syste	_	51151105
405)(1)(
16DYJV	Vehicle Dynamics	Z,ZK	5
	nanics. Wheel and axle suspension mechanism. Wheel to road positioning characteristics. Wheel - road contact. Skid and its characte		
acceleration and de	eceleration. Vertical dynamics, spring suspension, driving characteristics. Directional dynamics, gyroscopical characteristics. Driving st	ability conditions. A	Nerodynamic
	forces. Driving and feedback. ABS, ESP.		
16PAV	Passive Safety	Z.ZK	4
	uation. Testing and legislation. Crash tests. Carbody properties. Injury mechanics. Restrain systems. Airbags. Road user safety. Mathe	,	
Trodu accident evan	safety systems.	matic modelling. i	031 0011131011
4011000		_	
16UDOP	Introduction into Vehicles	Z	2
Vehicles and transp	portation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and wate	r transport. Alterna	ative means
	of transport. Lifting equipment and conveyors. Legislation.		
16X31D	Project 1 DOS	Z	2
4CV20D	Danis - 4 0 DOO	_	_
108320 1	Project 2 DOS	l Z	2
16X32D	Project 2 DOS Project 3 DOS		2
16X33D	Project 3 DOS	Z	4
16X33D 16Y1EN	Project 3 DOS Energy Requirements of Vehicles	Z KZ	4 2
16X33D 16Y1EN	Project 3 DOS Energy Requirements of Vehicles driving inertial of the vehicles. Types of energy - kinetic, static, heat, chemical and others. Ways of energy change into kinetic energy.	Z KZ . Combustion engi	4 2
16X33D 16Y1EN	Project 3 DOS Energy Requirements of Vehicles	Z KZ . Combustion engi	4 2
16X33D 16Y1EN	Project 3 DOS Energy Requirements of Vehicles driving inertial of the vehicles. Types of energy - kinetic, static, heat, chemical and others. Ways of energy change into kinetic energy.	Z KZ . Combustion engi	4 2
16X33D 16Y1EN Dynamics and the	Project 3 DOS Energy Requirements of Vehicles driving inertial of the vehicles. Types of energy - kinetic, static, heat, chemical and others. Ways of energy change into kinetic energy drive, steam engine, air engine. Energy accumulation means, accumulator, flywheel, fuel cell. Energy recuperation. WTW analysis of the vehicles of the vehicles. Types of energy accumulation means, accumulator, flywheel, fuel cell. Energy recuperation. WTW analysis of the vehicles of the vehicles.	Z KZ . Combustion engi ysis. KZ	4 2 ine, electric
16X33D 16Y1EN Dynamics and the 16Y1IS Simulation theor	Project 3 DOS Energy Requirements of Vehicles driving inertial of the vehicles. Types of energy - kinetic, static, heat, chemical and others. Ways of energy change into kinetic energy drive, steam engine, air engine. Energy accumulation means, accumulator, flywheel, fuel cell. Energy recuperation. WTW anal Interactive simulators and simulations ry and application of computing equipment. Creating computing models. Mechanical and dynamic systems and their mathematical m	Z KZ Combustion engingsis. KZ odels. Computing in	4 2 ine, electric
16X33D 16Y1EN Dynamics and the 16Y1IS Simulation theor	Project 3 DOS Energy Requirements of Vehicles driving inertial of the vehicles. Types of energy - kinetic, static, heat, chemical and others. Ways of energy change into kinetic energy drive, steam engine, air engine. Energy accumulation means, accumulator, flywheel, fuel cell. Energy recuperation. WTW anal Interactive simulators and simulations ry and application of computing equipment. Creating computing models. Mechanical and dynamic systems and their mathematical mation of vehicle dynamics, on-land carriage in particular. Virtual reality systems. Practical exercise with simulation software and interactions.	Z KZ Combustion enginglysis. KZ odels. Computing active simulators.	4 2 ine, electric 2 methods.
16X33D 16Y1EN Dynamics and the 16Y1IS Simulation theor Simul 16Y1KS	Project 3 DOS Energy Requirements of Vehicles driving inertial of the vehicles. Types of energy - kinetic, static, heat, chemical and others. Ways of energy change into kinetic energy drive, steam engine, air engine. Energy accumulation means, accumulator, flywheel, fuel cell. Energy recuperation. WTW anal Interactive simulators and simulations ry and application of computing equipment. Creating computing models. Mechanical and dynamic systems and their mathematical material englishments. Or particular. Virtual reality systems. Practical exercise with simulation software and interaction of vehicles.	Z KZ Combustion enginglysis. KZ odels. Computing active simulators. KZ	4 2 ine, electric 2 methods.
16X33D 16Y1EN Dynamics and the 16Y1IS Simulation theor Simul 16Y1KS Quality and reliab	Project 3 DOS Energy Requirements of Vehicles driving inertial of the vehicles. Types of energy - kinetic, static, heat, chemical and others. Ways of energy change into kinetic energy drive, steam engine, air engine. Energy accumulation means, accumulator, flywheel, fuel cell. Energy recuperation. WTW anal Interactive simulators and simulations ry and application of computing equipment. Creating computing models. Mechanical and dynamic systems and their mathematical material endiation of vehicle dynamics, on-land carriage in particular. Virtual reality systems. Practical exercise with simulation software and interaction of vehicles. Quality and Reliability of Vehicles solitity theory in design, development, production and operation of vehicles. Definition and possible approach to quality and reliability. Kernal carriage in particular and operation of vehicles.	Z KZ Combustion enginglysis. KZ odels. Computing reactive simulators. KZ ey legislation. FME	4 2 ine, electric 2 methods.
16X33D 16Y1EN Dynamics and the 16Y1IS Simulation theor Simul 16Y1KS Quality and reliab	Project 3 DOS Energy Requirements of Vehicles driving inertial of the vehicles. Types of energy - kinetic, static, heat, chemical and others. Ways of energy change into kinetic energy drive, steam engine, air engine. Energy accumulation means, accumulator, flywheel, fuel cell. Energy recuperation. WTW anal Interactive simulators and simulations ry and application of computing equipment. Creating computing models. Mechanical and dynamic systems and their mathematical material engliation of vehicle dynamics, on-land carriage in particular. Virtual reality systems. Practical exercise with simulation software and interactive duality and Reliability of Vehicles is consistent of the vehicles approach to quality and reliability. Key Analysis), QFD (Quality Function Deployment), DFx (Design for Assamly, Manufacturying, Quality, Services) and other methods under the vehicles and the vehicles in the ve	Z KZ Combustion enginglysis. KZ odels. Computing reactive simulators. KZ ey legislation. FME	4 2 ine, electric 2 methods.
16X33D 16Y1EN Dynamics and the 16Y1IS Simulation theor Simul 16Y1KS Quality and reliab Mode and Effects	Project 3 DOS Energy Requirements of Vehicles driving inertial of the vehicles. Types of energy - kinetic, static, heat, chemical and others. Ways of energy change into kinetic energy drive, steam engine, air engine. Energy accumulation means, accumulator, flywheel, fuel cell. Energy recuperation. WTW anal Interactive simulators and simulations ry and application of computing equipment. Creating computing models. Mechanical and dynamic systems and their mathematical melation of vehicle dynamics, on-land carriage in particular. Virtual reality systems. Practical exercise with simulation software and interactive production and operation of vehicles. Definition and possible approach to quality and reliability. Keylory in design, development, production and operation of vehicles. Definition and possible approach to quality and reliability. Keylory (Quality Function Deployment), DFx (Design for Assamly, Manufacturying, Quality, Services) and other methods unknowledge-based systems of quality and reliability, data collection.	Z KZ Combustion enginglysis. KZ odels. Computing factive simulators. KZ ey legislation. FME sed in industrial approximation	4 2 ine, electric 2 methods. 2 EA (Failure poplications.
16X33D 16Y1EN Dynamics and the 16Y1IS Simulation theor Simul 16Y1KS Quality and reliab	Project 3 DOS Energy Requirements of Vehicles driving inertial of the vehicles. Types of energy - kinetic, static, heat, chemical and others. Ways of energy change into kinetic energy drive, steam engine, air engine. Energy accumulation means, accumulator, flywheel, fuel cell. Energy recuperation. WTW anal Interactive simulators and simulations ry and application of computing equipment. Creating computing models. Mechanical and dynamic systems and their mathematical material engliation of vehicle dynamics, on-land carriage in particular. Virtual reality systems. Practical exercise with simulation software and interactive duality and Reliability of Vehicles is consistent of the vehicles approach to quality and reliability. Key Analysis), QFD (Quality Function Deployment), DFx (Design for Assamly, Manufacturying, Quality, Services) and other methods under the vehicles and the vehicles in the ve	Z KZ Combustion enginglysis. KZ odels. Computing reactive simulators. KZ ey legislation. FME	4 2 ine, electric 2 methods.
16X33D 16Y1EN Dynamics and the 16Y1IS Simulation theor Simul 16Y1KS Quality and reliab Mode and Effects	Project 3 DOS Energy Requirements of Vehicles driving inertial of the vehicles. Types of energy - kinetic, static, heat, chemical and others. Ways of energy change into kinetic energy drive, steam engine, air engine. Energy accumulation means, accumulator, flywheel, fuel cell. Energy recuperation. WTW anal Interactive simulators and simulations ry and application of computing equipment. Creating computing models. Mechanical and dynamic systems and their mathematical melation of vehicle dynamics, on-land carriage in particular. Virtual reality systems. Practical exercise with simulation software and interactive production and operation of vehicles. Definition and possible approach to quality and reliability. Keylory in design, development, production and operation of vehicles. Definition and possible approach to quality and reliability. Keylory (Quality Function Deployment), DFx (Design for Assamly, Manufacturying, Quality, Services) and other methods unknowledge-based systems of quality and reliability, data collection.	Z KZ Combustion enginglysis. KZ odels. Computing active simulators. KZ ey legislation. FME sed in industrial ap KZ	4 2 2 ine, electric 2 methods. 2 EA (Failure polications. 2
16X33D 16Y1EN Dynamics and the 16Y1IS Simulation theor Simul 16Y1KS Quality and reliab Mode and Effects	Project 3 DOS Energy Requirements of Vehicles driving inertial of the vehicles. Types of energy - kinetic, static, heat, chemical and others. Ways of energy change into kinetic energy drive, steam engine, air engine. Energy accumulation means, accumulator, flywheel, fuel cell. Energy recuperation. WTW anal Interactive simulators and simulations ry and application of computing equipment. Creating computing models. Mechanical and dynamic systems and their mathematical melation of vehicle dynamics, on-land carriage in particular. Virtual reality systems. Practical exercise with simulation software and interactive plants and Reliability of Vehicles Quality and Reliability of Vehicles Dility theory in design, development, production and operation of vehicles. Definition and possible approach to quality and reliability. Kanalysis), QFD (Quality Function Deployment), DFx (Design for Assamly, Manufacturying, Quality, Services) and other methods unknowledge-based systems of quality and reliability, data collection. Operation, Construction and Maintenance of Vehicles	Z KZ Combustion enginglysis. KZ odels. Computing active simulators. KZ ey legislation. FME sed in industrial ap KZ	4 2 2 ine, electric 2 methods. 2 EA (Failure polications. 2
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17TEDL	Transport Technology and Logistics	KZ	3
	nsport technology and logistics, particular steps of transport planning, line planning, timetabling, planning in pasanger and freight trans nodus, technologic factors of the side of operator and client, organisation of city transport, logistic technologies and their aplication usin		
17TGA	Graph Theory and its Applications in Transport	Z,ZK	4
Basic terms o	f graph theory, paths in graphs, flows in networks, location problems, design problems on graphs, optimum routing, use of graphs in of	ther scientific dis	ciplines.
17X31D	Project 1 DOS	Z	2
17X32D	Project 21 DOS	Z	2
17X33D	Project 3 DOS	 Z	4
17Y1EV	Public Sector Economy	KZ	2
	ncial theory of public sector, public choice theory, externalites, decisions about public finance allocation, economic assesment of public		1
	R, state budget, management of public projects a their economic efficiency assessment, way of elaboration of PPP projects, funding fro		
17Y1LL	Logistics of Passenger and Freight Air Transport	KZ	2
	ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial trans		1
Logistics attitle pa	air cargo. Information systems in air transport. Allohal distribution systems.	port process pas	serigers arr
17Y1MD		KZ	2
	Marketing in Transportation of marketing applied to transport issues, marketing tools suitable for transport as a service, specifics of public passenger transport ar		_
General principles	the application of marketing.	id the resulting d	illerences il
17Y10F	Personal Finance	KZ	2
	Fersonal Finance (budget, financing of basic living needs), debt (loans and credits, payment instruments, interest and fees, debt trap), financing of housi		1
	financing), savings and investments (investment horizon, return, risk, investment strategy), insurance (insurance types, suitability and a		-
concentration loans, le	(retirement savings and investments (investment nonzon, return, risk, investment strategy), insurance (insurance types, suitability and a	yuuoy,, 360ui	g alo futul
17Y1PM	Personnel Management	KZ	2
	rees, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, interc		1
17Y1SK		KZ	2
_	Urban and Regional Rail Transport Systems transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, lin		_
•	e timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transport marketing.	•	•
17Y1SL	Sociology of Human Resources	KZ	2
	and their importance, work group as a special kind of social group, communication, personal management, modern management, huma		I
	of the organization.	a	g, cartar
17Y1ST	Titan Simulation	KZ	2
	gement game simulating the business decisions. Lets 2-8 student groups to produce and compete in the market with the same produc		I
		i. Oldderilo oel a	price and
determine the guar	ntity and capacity of production, plan budgets for marketing, research and development. They become familiar with the consequences	of their decisions	s by the form
determine the qua	ntity and capacity of production, plan budgets for marketing, research and development. They become familiar with the consequences of financial corporate reports and they use this information for other business decisions.	of their decisions	s by the forr
	of financial corporate reports and they use this information for other business decisions.		_
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18DYKS Vibration of syster Systems with conti 18KIDY Friction. Motion alo equation of motion 18MECK Energetic solution His	of financial corporate reports and they use this information for other business decisions. Dynamics of Structures and Systems ms with multiple degrees of freedom. Natural modes and natural frequencies. Method of stiffness constants, method of elastic constant nuously distributed mass. Matrix form of equations of vibration. Finite element method in dynamics of structures. Solving vibrations by structures and Dynamics Natural modes and natural frequencies. Method of stiffness constants, method of elastic constants, method of structures. Solving vibrations by structures and bynamics of structures and Dynamics In a line and a curve. Kinematics of rigid body. Kinematics of the point mass and the system of mass points. Dynamics of a mass point on. Method of Newton. D'Alembert principle. Free and forced vibration with one degree of freedom. Viscous damping. Impact theory. In vibration of Newton. D'Alembert principle. Free and forced vibration with one degree of freedom. Viscous damping. Impact theory. In vibration with two degrees of freedom. Viscous damping. Impact theory. In vibration of Solution of statically indeterminate systems - force and deformation method. Stiffness and compliance matrix of a systory and fundamentals of structural design. Characteristics of steel, design of steel structures. Introduction to mathematical theory of elastic beam. Solution of statically indeterminate systems - force and Engineering Iterials Science and engineering explains mechanical properties of structural materials based on their bonding forces and microstructure is the most important engineering materials, also other major classes of materials are presented, namely ceramics, polymers and come to degradation processes in materials, to defectoscopy and to main mechanical tests. Numerical Methods in Mechanics Numerical Methods in Mechanics In a structural method of the derivation of the basic equations. Stiffness matrix, mass matrix, damping matrix at element level and structural level. of algebraic equations. Numerical i	Z,ZK ts, other numeric uperposition of na Z,ZK and a system of troduction to the KZ tem. Finite differe elasticity in 3D. Z,ZK e. However the m posites. Attention KZ the and spatial dis Methods for solv Z,ZK the beams and simp Cross-sectional cl Z simple framework points and method Z	3 all methods atural modes atural modes atural modes atural modes atural modes atural modes at a mass points solution of 3 and attention is also paid at a mass point attention is also paid at a mass point attention in a salso paid at a mass point attention is also paid at a mass point
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18TED	Technical Documentation ards, international standardization, technical drawings, representation of technical objects, technical diagrams and charts, dimensiona	KZ	2
recillical stands	arrangement of drawing sheets.	i and geometrical	accuracy,
18X31D	Project 1 DOS	Z	2
18X32D	Project 2 DOS	Z	2
18X33D	Project 3 DOS	Z	4
18Y1AM	Anatomy, Mobility and Safety of Man	KZ	2
Survey of tissues.	Anatomical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation		m. Structure
and biomechanics	of muscular-skeletal system. Injury of human organs and musculo-skeletal system during traffic accidents. Mobility of ill and injured m	nan and his treatn	nent. Humar
	joint prostheses. Protective means and traffic safety regulations.		
18Y1EM	Experimental Methods in Mechanics role of experimental mechanics. Sensors for mechanical testing. Overview of experimental methods. Destructive and non-destructive terms of the control o	KZ	2
	poedures and sample preparation. Tensile and bending tests. Electrical resistance strain gages. Optical based strain measurement. Fai	•	ū
	Instrumented hardness testing. Introduction to electron microscopy. Errors in measurement.	g	p
18Y1MT	Engineering Materials	KZ	2
•	ew of main classes of materials used in technical design. In addition to main classes of materials, i. e. metals, ceramics, polymers and		ntion is paid
	logical materials and to biomimetics. Integral approach to material selection process is also demonstrated based on so called Ashby's		
18Y1PS	Computer Simulations in Mechanics	KZ	2
•	erview of tools for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model development In strems. Assignment of material properties. The types of elements and their use. Discretization of solid model. Boundary conditions and	-	
	tasks of structural and modal analysis. Introduction to complex nonlinear problems.	-FF30011 OI UII	
18Y1UK	Introduction of Rail Vehicles	KZ	2
	tics and parameters rail transport systems - railway and urban transport. Basis driving mechanics rail vehicles - equation of motion tra		_
track resistance. To	otal running resistance. Acceleration force. Analyzing driving cycle rail vehicle. Speed-power diagrams and characteristics rail vehicle - h	nydromechanic, h	ydrodynami
2000/04	and electric drive. Design concept rail vehicles and drive of wheel set.	7 71/	
20SYSA	Systems Analysis tem sciences, system viewpoint, terminology, typical system analysis tasks, system identification, system interface and interface tasks,	Z,ZK	5 m behaviou
=	strong functions and processes, genetic code, system identity, system architecture. Tools for system analysis - Petri nets, decision tab	-	
,	tasks. Soft and hard systems, methods for soft system analysis.	, 0	
20UITS	Introduction to Intelligent Transport Systems	Z,ZK	7
	egislative framework telematics systems and their architecture. Telematics systems in practice and their operation. Fundamentals of information of the control of the contr		
systems for ITS. P	rinciples and technical support measurement of traffic data, localization and navigation. Practical work with traffic data. Real examples	of possible applic	ations of the
20V24D	principles of ITS.	7	
20X31D 20X32D	Project 1 DOS	Z 	2
20X32D 20X33D	Project 2 DOS	Z 	4
20X33D 20Y1AE	Project 3 DOS		
ZULIAE	Applied Electronics		
	Applied Electronics semiconductor components, their principles, characteristics and typical connection diagrams. Semiconductor PN junction diodes, tran	KZ	2
Basic electronic	Applied Electronics semiconductor components, their principles, characteristics and typical connection diagrams. Semiconductor PN junction diodes, tran logic gates. Functions of basic electronic circuits and methods for their designs (rectifiers, voltage regulator with Zener diode, transistors).	KZ sistors, thyristor, o	2 operational
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20Y1SC	Sensors and Actuators	KZ	2
	rs and actuators. Basics of measuring theory and actuating influence. The respective technologies and construction principles. Sensors of		1
	state (temperature, humidity), chemical and particle flow values. Electrical, pneumatic and hydraulic actuators and solid phase ele	ments.	
21SLD	Seminar of Air Transport	Z	0
=	ions, terminology, basic rules. VFR / IFR. Basics of aerodynamics. Propulsion of aircraft. Aircraft design. Basics of navigation, radio nav	_	
performance. Flig	ght planning, optimization of speed and heights, minimum fuel. Limitations of operation, maintenance, service life of aircraft. Traffic mar security. Air crew. Airlines and economics. Space technologies.	agement, ground	handling.
21X31D	Project 1 DOS	Z	2
21X31D 21X32D	Project 2 DOS	Z	2
	·	Z	
21X33D	Project 3 DOS		4
21Y1AM	Aeronautical Information Management (AIM) ic overview of AIS and AIM. Transition from AIS to AIM. Regulatory base. Provision of AIS/AIM in the Czech Rep. AIP (Aeronautical Inf	KZ	2 R Manual
	AIRAC System. NOTAM messages.PIB (Pre-flight Informtion Bulletin). AIC (Aeoronautical Inf. Circulars). Aeronautical Charts. EAD (Eur		
110 O20011 1 top. 7	(Quality Mng. System). ADQ (Aeronautical Data Quality). AIXM (Aeronautical Inf. Exchnage Format).	opona / 110 Datas	
21Y1BS	Unmanned aircraft systems 1	KZ	2
	on Development. Aircraft design. Legislation in force in the Czech Republic. Planning and execution of the flight. Airspace division. Open procedures. Practical flights.		operation
21Y1LJ	Aeronautical Radio and Flight Instruments	KZ	2
	istory of aircraft instrumentation, aerometric instrumentation, Earth magnetism, aircraft electric equipment, gyroscopic instrumentation,	airframe instrum	entation a
	aft equipment, engine instrumentation, warning and recording systems, instrumentation operational requirements, radiocommunication		
21Y1LS	Air Traffic Services	KZ	2
irspace structure	in Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, APP and the ATS of the ATS	a ACC control. Hi	story of A
04)//11/2	at USA and Czechoslovakia. ATS - Model of financing. Training System of Air Traffic Controllers. Future development of ATS.	177	1 -
21Y1MP	Matlab for project-oriented study	KZ	2
	abus is focused on the problem-solving during bachelor's thesis preparation and it is based on students' requests. Individual exercises belies, based on actual students' needs and suggestions. The subject will have a flexible form, which is expected to bring an improvemen		_
21Y1OH	Airline Business and Operations	KZ	2
_	es a comprehensive view of the commercial, operational and transportation activities of air transport companies. It focuses on the organiza		_
="	their strategy, economic and operational indicators. It introduces students in detail to operational processes and the essentials of transport		-
	a basic view of the economic aspects of air transport.	,	
21Y1PA	Air Traffic Control Operating Procedures	KZ	2
Practical exercises	s on the ATC simulator with the following focus - getting familiar with the simulation environment, acquiring basic habits, aircraft identific	cation procedures	s, vectoring
evel changes, AT	C clearance, use of RNAV points. Practical exercises focused on the basis of vectoring, timely application of vertical spacing, EST and	REV message tra	ansmissio
	Exercises in the APPROACH airspace, arrivals, departures and conflict solutions.		
21Y1PC	ATC Procedures and Activities	KZ	2
Air traffic control	ATC Procedures and Activities procedures, basics of communication and phraseology, aircraft identification, spacing and traffic coordination. In addition, the course d	scusses air traffi	c control a
Air traffic control the airpo	ATC Procedures and Activities procedures, basics of communication and phraseology, aircraft identification, spacing and traffic coordination. In addition, the course d rts and low visibility operational procedures. Students will during the course learn basic safety management applications applied acros	scusses air traffices the infrastructu	c control a
Air traffic control the airpo	ATC Procedures and Activities procedures, basics of communication and phraseology, aircraft identification, spacing and traffic coordination. In addition, the course d rts and low visibility operational procedures. Students will during the course learn basic safety management applications applied acros Human Resources Management	scusses air traffic s the infrastructu KZ	c control a re.
Air traffic control the airpo 21Y1RZ The position of	ATC Procedures and Activities procedures, basics of communication and phraseology, aircraft identification, spacing and traffic coordination. In addition, the course d rts and low visibility operational procedures. Students will during the course learn basic safety management applications applied acros Human Resources Management human resources in the organization and related disciplines file. Substance, importance and challenges of human resources manager	scusses air traffic s the infrastructu KZ nent. Internal and	c control a re. 2 I external
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23X33D	Project 3 DOS	Z	4
23Y1EH	Electronics and hardware in security of transportation	KZ	2
Types and parame	eters of signals. Passive circuits, properties, basic measurements. Passive filters, semiconductors. Operational amplifiers, basic circu	its, parameters. A	ctive filters.
Power supplies. Log	gic circuits. AD converters. Connection of analog and digital parts. Basic blocks of digital signal processing. Measurement processing. D	esign and fabrica	tion methods
	in electronics.		
23Y1KB	Cyber security in transportation	KZ	2
Basic concepts of s	security and cyber security, legal status in the field of cyber security, virtual cyberspace and communities, taxonomy of crimes in cybe	erspace, social im	pacts, social
engineerin	g, cyber attack technology, information security, cyber attacks on telematics systems, security of systems with artificial intelligence, r	orms and standa	rds.
23Y1KM	Crisis Management	KZ	2
Theory and legal fra	ame of crisis management with direction to Rescue system (IZS). After introduction to safety domain, there are terms and knowledge o	n: theory and pos	sition of crisis
manag	gement and its targets; IZS-crisis management-crisis planning; and basic legislation. Practical part is concentrated to responsibility m	atrix compilation.	
23Y1KO	Quantum Physics and Optoelectronics	KZ	2
·	Ground of quantum physics. Application of quantum physics in practice. Optoelectronics. Production of optoelectronics component	ents.	•
23Y1KY	Cybernality	KZ	2
Juridical aspects of	behavior on the computer network and computer systems. Cybernetic crime technology. Theory basis and models. Cyberterrorism. Inf	oware and conne	cted aspects.
23Y1MK	Crisis Situation Management in Critical Infrastructure	KZ	2
Determination of c	ritical infrastructute elements on all levels, their protection systems, responsibilities of particular agencies of the state administration	and the self-gove	rnment, and
their r	responsibilities to anounce particular safety provisions. Physical and cyber protection of critical infrastructure with special attention to	the soft targets.	
23Y1MU	Emergency Events Management Solution in Transport Infrastructure	KZ	2
Basic solutions of e	mergency events with emphasis of the transport infrastructure events and their solution management. Knowledge in the emergency pla	anning and specia	n procedures
	in liquidation work within the transport infrastructure.		
23Y1OK	Protection of Critical Objects and Infrastructures	KZ	2
Types of technologi	cal systems, critical item, risks and their courses, criticality, vulnerability, connectivity, dependability, resilience, failure, protection, safe	ty of critical object	ts and critical
	infrastructures.		
23Y1TP	Criminal Law in IT and Transportation	KZ	2
Introduction of cri	minal law into legal order, conception of culpability and criminal delict, consequency of other legal standards. international treaty and	criminal law, inve	stigation of
	crime, specific indicia of criminal court cases, practical examples.		
23Y1VS	Negotiation and Cooperation	KZ	2
Code of conduct fo	r negotiation. The influence of personality traits on the negotiations. Negotiation and commanding. Teamwork. Variants teams. Inform	al and formal role	in the team.
Principles of negotia	ation, the essence of negotiation, the differences in negotiation in business and in crisis situations, the principle of "win both", specific	ations and biddin	g, the role of
	trust.		
TV-1	Physical Education	Z	1
TV-2	Physical Education	Z	1
TVKLV	Physical Education Course	Z	0
1 VIXEV			

For updated information see http://bilakniha.cvut.cz/en/FF.html Generated: day 2025-07-23, time 16:03.