Recomended pass through the study plan

Name of the pass: Bachelor Full-Time TET-DOS from 2024/25

Faculty/Institute/Others:

Department:

Pass through the study plan: Bachelor TET-DOS Full-Time from 2024/25

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

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
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	Z	Z
14DATS	Database Systems Jana Kaliková, Jan Kr ál Jana Kaliková Jana Kaliková (Gar.)	KZ	2	1P+1C+10B	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	Z	Z
12MDE	Transport Models and Transport Excesses Josef Kocourek, Tomáš Pad lek	Z,ZK	3	2P+1C+8B	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	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	Z	Z
11TGA	Graph Theory and its Applications in Transport Denisa Mocková, Dušan Teichmann Denisa Mocková Denisa Mocková (Gar.)	Z,ZK	4	2P+2C+12B	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	Z	Z
14DPK	Digital Support for Designing of Roads and Highways Libor Žídek, 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 níTET-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 níTET-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-24/25	PVP-B Bc. prezen ní TET-DOS od 2024/25 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-24/25	PVP-B Bc. prezen ní TET-DOS od 2024/25 21Y1AM,00Y1XB, (see the list of groups below)	Min. cours. 4	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			ZP
6S-BP-DOS-V1-23/24	6. sem. Bc. prezen níTET-DOS 1. výb r p edm tu od 2023/24 16PAV,17FID	Min. cours. 1 Max. cours.	Min/Max 4/4			Z
6S-BP-DOS-V2-23/24	6. sem. Bc. prezen níTET-DOS 2. výb r p edm tu od 2023/24 12ZAR, 14ZDA	Min. cours. 1 Max. cours.	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-24/25	PVP-B Bc. prezen ní TET-DOS od 2024/25 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 specification	courses and on see here o	I codes of members of this or below the list of courses)	Com	pletion	Credits	Scope	Semester	Role
4S-BP-DOS	-V1-22/23	4. sem. Bc. prezen ní	TET-DOS 1. v	ýb rp edm tu od 2022/23		cours. 1 cours. 1	Min/Max 4/4			z
11EMOP	Electromag	gnetic Field and Optics	12SDK	Highways, Motorways and Intersec						
10.77.70					Min.	cours.	Min/Max			
4S-BP-DOS	-V2-22/23	4. sem. Bc. prezen ní	TET-DOS 2. v	ýb r p edm tu od 2022/23	Max	cours.	3/3			Z
11MDSD		4. sem. Bc. prezen ní and Processing of Tra	TET-DOS 2. v	ýb r p edm tu od 2022/23 Organization Disposition of Rail	Max	cours.	3/3			Z
11MDSD	Collecting a	and Processing of Tra	12PUSS	Organization Disposition of Rail	Min.	cours. 1 cours. 1 cours. 1	Min/Max			z

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5S-BP-DOS	-V1-23/24	5. sem. Bc. prezen n	ní TET-DOS 1. v	rýb r p edm tu od 2023/24		cours. 1 cours. 1	Min/Ma : 3/3	×		z
12DOSI	Traffic Surv	veys and Simulations	18DYKS	Dynamics of Structures and Syste						
			l	rýb r p edm tu od 2023/24	Min.	cours. 1 cours.	Min/Ma 5/5	×		z
<u> </u>	1		1	T	L	1				
5S-BP-DOS	City Rail Tr		16DYJV	yéb r p edm tu od 2023/24		cours. 1 cours.	Min/Ma 3/3	x		z
12POSD	Assessme	nt of Transport Structur	18NUMM	Numerical Methods in Mechanics			l			
6S-BP-DOS			ní TET-DOS 1. v	ýb rp edm tu od 2023/24		cours. 1 cours. 1	Min/Ma 4/4	×		Z
16PAV	Passive Sa	afety	17FID	Financing and Investment in Tran.			ļ	_!	1	
6S-BP-DOS	-V2-23/24	6. sem. Bc. prezen n	ní TET-DOS 2. v	ýb rp edm tu od 2023/24		cours. 1 cours. 1	Min/Ma 3/3	×		Z
12ZAR	Introductio	n to Architectural De	14ZDA	Data Processing			1			
JZ-BP-TE	T-22/23	Bc. TET (mir	mo LED) druhy	ý jazyk od 2022/23		cours. 2 cours. 2	Min/Ma : 6/6	x		J
15JZ3F	Foreign La	nguage - French 3	15JZ3I	Foreign Language - Italian 3		15JZ3N	F	oreign Langu	age - German	3
15JZ3R	Foreign La	nguage - Russian 3	15JZ3S	Foreign Language - Spanish 3		15JZ4F	F	oroian Langu	age - French 4	
4517.	Foreign Le			r orongin zariguago opariion o				oreign Langu	age Trenent	
15JZ4I		nguage - Italian 4	15JZ4N	Foreign Language - German 4		15JZ4R			age - Russian	
15JZ4S 15JZ4S X1-BP-DO	Foreign La	nguage - Spanish 4						oreign Langu		
15JZ4S	Foreign La	nguage - Spanish 4 Projekty Bc.		Foreign Language - German 4		cours. 3 cours.	Min/Ma 8/8	oreign Langu	age - Russian	4
15JZ4S X1-BP-DO	Foreign La	nguage - Spanish 4 Projekty Bc.	. prezen ní TE	Foreign Language - German 4 T-DOS od 2022/23		cours. 3 cours. 3	Min/Ma 8/8	oreign Langu	age - Russian	4
15JZ4S X1-BP-DO 11X31D	Foreign La PS-22/23 Project 1 D	Projekty Bc.	. prezen ní TE	Foreign Language - German 4 T-DOS od 2022/23 Project 1 DOS		cours. 3 cours. 3 14X31D	Min/Ma. 8/8	x DOS	age - Russian	4
15JZ4S X1-BP-DO 11X31D 15X31D 18X31D 22X31D	Project 1 D Project 1 D Project 1 D Project 1 D Project 1 D Project 1 D Project 1 D	Projekty Bc. OOS OOS OOS	. prezen ní TE 12X31D 16X31D 20X31D 23X31D	Foreign Language - German 4 T-DOS od 2022/23 Project 1 DOS		15JZ4R cours. 3 cours. 14X31D 17X31D 21X31D 11X32D	Min/Ma 8/8	oreign Langu Troject 1 DOS Project 1 DOS Project 1 DOS Project 1 DOS	Russian	4
15JZ4S X1-BP-DO 11X31D 15X31D 18X31D 22X31D 12X32D	Project 1 D Project 1 D Project 1 D Project 1 D Project 1 D Project 1 D Project 2 D	Projekty Bc. OOS OOS OOS OOS OOS	12X31D 16X31D 20X31D 23X31D 14X32D	Foreign Language - German 4 T-DOS od 2022/23 Project 1 DOS Project 2 DOS		15JZ4R cours. 3 cours. 3 14X31D 17X31D 21X31D 11X32D 15X32D	Min/Ma 8/8	roject 1 DOS roject 1 DOS roject 1 DOS roject 1 DOS roject 2 DOS roject 2 DOS	Russian Russian	4
15JZ4S X1-BP-DO 11X31D 15X31D 18X31D 22X31D 12X32D 16X32D	Project 1 D Project 2 D Project 2 D Project 2 D	Projekty Bc. Projekty Bc. OOS OOS OOS OOS OOS	12X31D 16X31D 20X31D 23X31D 14X32D 17X32D	Foreign Language - German 4 T-DOS od 2022/23 Project 1 DOS Project 2 DOS Project 2 DOS Project 21 DOS		15JZ4R cours. 3 cours. 3 14X31D 17X31D 21X31D 11X32D 15X32D 18X32D	Min/Ma 8/8	roject 1 DOS roject 1 DOS roject 1 DOS roject 1 DOS roject 2 DOS roject 2 DOS roject 2 DOS	Russian Russia	4
15JZ4S X1-BP-DO 11X31D 15X31D 18X31D 22X31D 12X32D 16X32D 20X32D	Project 1 D Project 1 D Project 1 D Project 1 D Project 1 D Project 2 D Project 2 D Project 2 D Project 2 D Project 2 D	Projekty Bc. Projekty Bc. OOS OOS OOS OOS OOS OOS OOS	. prezen ní TE 12X31D 16X31D 20X31D 23X31D 14X32D 17X32D 21X32D	Foreign Language - German 4 T-DOS od 2022/23 Project 1 DOS Project 2 DOS Project 21 DOS Project 21 DOS Project 2 DOS		15JZ4R cours. 3 cours. 14X31D 17X31D 21X31D 11X32D 15X32D 18X32D 22X32D	Min/Ma 8/8	roject 1 DOS roject 1 DOS roject 1 DOS roject 1 DOS roject 2 DOS	Russian Russia	4
15JZ4S X1-BP-DO 11X31D 15X31D 18X31D 22X31D 12X32D 16X32D 20X32D 23X32D	Project 1 D Project 2 D	Projekty Bc. Projekty Bc. OOS OOS OOS OOS OOS OOS OOS OOS	12X31D 16X31D 20X31D 23X31D 14X32D 17X32D 21X32D 11X33D	Foreign Language - German 4 T-DOS od 2022/23 Project 1 DOS Project 2 DOS Project 21 DOS Project 2 DOS Project 2 DOS Project 3 DOS Project 3 DOS		15JZ4R cours. 3 cours. 3 14X31D 17X31D 21X31D 11X32D 15X32D 18X32D 22X32D 12X33D	Min/Ma 8/8	roject 1 DOS roject 1 DOS roject 1 DOS roject 1 DOS roject 2 DOS roject 2 DOS roject 2 DOS roject 2 DOS roject 3 DOS	G G G G G G G G G G G G G G G G G G G	4
15JZ4S X1-BP-DO 11X31D 15X31D 18X31D 22X31D 12X32D 16X32D 20X32D 23X32D 14X33D	Project 1 D Project 2 D Project 2 D Project 2 D Project 2 D Project 3 D	Projekty Bc. Projekty Bc. OOS OOS OOS OOS OOS OOS OOS OOS OOS O	12X31D 16X31D 20X31D 23X31D 14X32D 17X32D 21X32D 11X33D 15X33D	Foreign Language - German 4 T-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 Project 3 DOS Project 3 DOS		15JZ4R cours. 3 cours. 3 14X31D 17X31D 21X31D 11X32D 15X32D 18X32D 22X32D 12X33D 16X33D	Min/Ma 8/8	roject 1 DOS roject 1 DOS roject 1 DOS roject 1 DOS roject 2 DOS roject 2 DOS roject 2 DOS roject 2 DOS roject 3 DOS roject 3 DOS	G G G G G G G G G G G G G G G G G G G	4
15JZ4S X1-BP-DO 11X31D 15X31D 18X31D 22X31D 12X32D 16X32D 20X32D 23X32D 14X33D 17X33D	Project 1 D Project 1 D Project 1 D Project 1 D Project 1 D Project 2 D Project 2 D Project 2 D Project 2 D Project 3 D Project 3 D Project 3 D	Projekty Bc. Projekty Bc. OOS OOS OOS OOS OOS OOS OOS OOS OOS O	12X31D 16X31D 20X31D 23X31D 14X32D 17X32D 21X32D 11X33D 15X33D 18X33D	Foreign Language - German 4 T-DOS od 2022/23 Project 1 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 3 DOS		15JZ4R cours. 3 cours. 3 14X31D 17X31D 21X31D 11X32D 15X32D 18X32D 22X32D 12X33D 16X33D 20X33D	Min/Ma 8/8	roject 1 DOS roject 1 DOS roject 1 DOS roject 2 DOS roject 2 DOS roject 2 DOS roject 2 DOS roject 3 DOS roject 3 DOS roject 3 DOS roject 3 DOS	Garage - Russian	4
15JZ4S X1-BP-DO 11X31D 15X31D 18X31D 22X31D 12X32D 16X32D 20X32D 23X32D 14X33D	Project 1 D Project 1 D Project 1 D Project 1 D Project 1 D Project 2 D Project 2 D Project 2 D Project 3 D Project 3 D Project 3 D Project 3 D	Projekty Bc. Projekty Bc. OOS OOS OOS OOS OOS OOS OOS OOS OOS O	12X31D 16X31D 20X31D 23X31D 14X32D 17X32D 21X32D 11X33D 15X33D 18X33D 22X33D	Foreign Language - German 4 T-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 Project 3 DOS Project 3 DOS	Max.	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	Garage - Russian	4
15JZ4S X1-BP-DO 11X31D 15X31D 18X31D 22X31D 12X32D 16X32D 20X32D 23X32D 14X33D 17X33D 21X33D Y1-BP-DO	Project 1 D Project 1 D Project 1 D Project 1 D Project 2 D Project 2 D Project 2 D Project 3 D Project 3 D Project 3 D Project 3 D Project 3 D	Projekty Bc.	12X31D 16X31D 20X31D 23X31D 14X32D 17X32D 21X32D 11X33D 15X33D 18X33D 22X33D	Foreign Language - German 4 T-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.	15JZ4R cours. 3 cours. 3 14X31D 17X31D 21X31D 11X32D 15X32D 12X33D 16X33D 20X33D 20X33D cours. 4 cours. 4	Min/Ma 8/8 P P P P P P P P P P P P P	Project 1 DOS Project 1 DOS Project 1 DOS Project 2 DOS Project 2 DOS Project 2 DOS Project 3 DOS	Barbara Russian	ZP PV
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15JZ4S X1-BP-DO 11X31D 15X31D 18X31D 22X31D 12X32D 16X32D 20X32D 23X32D 14X33D 17X33D 21X33D Y1-BP-DO	Project 1 D Project 2 D Project 2 D Project 2 D Project 3 D	Projekty Bc.	12X31D 16X31D 20X31D 23X31D 14X32D 17X32D 21X32D 11X33D 15X33D 18X33D 22X33D	Foreign Language - German 4 T-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.	15JZ4R cours. 3 cours. 3 14X31D 17X31D 21X31D 11X32D 15X32D 12X33D 16X33D 20X33D 20X33D cours. 4 cours. 4	Min/Ma 8/8 P P P P P P P P P P P P P P P P P P	roject 1 DOS roject 1 DOS roject 1 DOS roject 1 DOS roject 2 DOS roject 2 DOS roject 2 DOS roject 3 DOS	rms of Transpo	ZP PV
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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:

	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	numbers and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative. Indefinite integral, Newton integral, Newton integral, Prist-order differential equations, linear differential equations.	gral, Riemann integr	al, imprope
11CAL2	Calculus 2	Z,ZK	5
Line	ear 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 elec	ctric current.	
11GIE	Geometry	KZ	3
Differential geom	netry of curves - parameterization, the arc of the curve, torsion and curvature, Frenet's trihedron. Kinematics - a curve as a trajectory of a curve of a curved path.	of the motion, the v	elocity, and
11LA	Linear Algebra	Z,ZK	3
Vector spaces (lir	near 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 classifications.	•	minants an
11MDSD	Collecting and Processing of Traffic Data	KZ	3
Basic pri	nciples of traffic detection and data collection, specific problems of the field of traffic data. Data preprocessing and analysis for use in	additional application	ns.
11MSP	Modeling of Systems and Processes	Z.ZK	4
		,_r\	-
_	ystem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differ	,	•
System and subsy	onlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function	ential and differentia	al equations
System and subsy Linear and no	onlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function Discretization of continuous systems. System interconnection.	ential and differentia on. Stability of LTI s	al equations ystems.
System and subsy	onlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function	ential and differentia on. Stability of LTI s	al equations
System and substitution Linear and no 11SCFZ	onlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function Discretization of continuous systems. System interconnection. Seminar of Physics Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermod	ential and differentia on. Stability of LTI s	al equations ystems.
System and subsy Linear and no	onlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function Discretization of continuous systems. System interconnection. Seminar of Physics	ential and differentia on. Stability of LTI s Z Jynamics.	al equations ystems.
System and subsy Linear and no 11SCFZ 11SEMO	onlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function Discretization of continuous systems. System interconnection. Seminar of Physics Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermod Seminar of Electromagnetic Field and Optics Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.	ential and differentia on. Stability of LTI s Z Jynamics.	al equations ystems.
System and subsy Linear and no 11SCFZ	onlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function Discretization of continuous systems. System interconnection. Seminar of Physics Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermod Seminar of Electromagnetic Field and Optics	ential and differential on. Stability of LTI s Z lynamics.	ol equations ystems.
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System and subsy Linear and no 11SCFZ 11SEMO 11SSF 11STAT	Seminar of Physics Solving problems on kinematics, particle dynamics, dynamics field, electromagnetic field, optics and basics of solid-state physics. Seminar of Physics Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermod Seminar of Electromagnetic Field and Optics Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics. Secondary School Physics Course Basics of kinematics, dynamics, thermodynamics, electric field and magnetic field.	ential and differential on. Stability of LTI s Z lynamics. Z Z	o o o o o o o o o o o o o o o o o o o
System and subsy Linear and no 11SCFZ 11SEMO 11SSF 11STAT	Seminar of Physics Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermod Seminar of Electromagnetic Field and Optics Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics. Secondary School Physics Course Basics of kinematics, dynamics, thermodynamics, electric field and magnetic field. Statistics Dility Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Parame Regression and correlation analysis	ential and differential on. Stability of LTI s Z lynamics. Z Z	o o o o o o o o o o o o o o o o o o o
System and subsy Linear and no 11SCFZ 11SEMO 11SSF 11STAT Basics of probal 11TGA	Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermod Seminar of Electromagnetic Field and Optics Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics. Secondary School Physics Course Basics of kinematics, dynamics, thermodynamics, electric field and magnetic field. Statistics Statistics Solving properties Interval estimates Parameters of the position of the properties of the parameters of the properties of the prop	z lynamics. Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	o lequations ystems.
System and subsy Linear and no 11SCFZ 11SEMO 11SSF 11STAT Basics of probal	Seminar of Physics Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermod Seminar of Electromagnetic Field and Optics Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics. Secondary School Physics Course Basics of kinematics, dynamics, thermodynamics, electric field and magnetic field. Statistics Dility Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Parame Regression and correlation analysis Graph Theory and its Applications in Transport	z lynamics. Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	ol equations ystems. O O O 4 netric tests

11X33D	Project 3 DOS	Z	4
11Y1BK	Error Detection Codes for Interlocking Systems	KZ	2
	on and methods for its assuring. Safety codes linear codes, cyclic codes, BCH codes, Reed-Solomon codes. Transmission channels, de		ission error
	probability of undetected error. Design and assessment of detection codes; requirements of the European standard EN 5015		
11Y1PV	Parametrical and Multicriterial Programming	KZ	2
olution to the pro	blem of linear programming with a parameter in objective function, on right sides and in the matrix of coeficients of linear constraints. Co	-	ient solutio
11Y1SI	Transportation Software Engineering	KZ	2
sasic concepts of	software engineering, ranging from domain analysis, requirement analysis and software architectures to analyses, design and implemen	tation using forma	al technique
40470	and practical usuage.	147	
11Y1TG	Graph Theory	KZ	2
	nd terminology of graph theory, graph representation. Problems of graph theory, problem instance. Graph search algorithms, trees, min Frian path, bipartite graph matching, flow networks, circulations, critical path method, traveling salesman problem. Problem of existence a		
atti probiciti, Luic	for their solving. Computational complexity, dealing with NP-complete problems, heuristic approach.	ia optimization ai	ia aigorium
11Y1ZM	Foundation of MATLAB Programming	KZ	2
	ciple of algorithmization, flow charts, description of MATLAB environment and its settings, MATLAB help, mathematical operators, matr		1
	control flow, inputs and outputs, graphics, optimization and program code debugging.		
12DOSI	Traffic Surveys and Simulations	Z,ZK	3
Ways of data colle	ection in road transport. Traffic surveys. Automatic traffic counting. Preparation and implementation of traffic survey. Description of indiv	idual approaches	focused o
practical example	es from real measurements. Methods of data processing and evaluation. Principles of simulation, SW environment for creating traffic r	nodels. Traffic mo	del design
101105	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 quassessment. Statistical characteristics of transport. Transport excesses, their analysis, the causes, identify and minimize the consequence.	*	,
anoport and its	assessment. Statistical characteristics of transport. Transport excesses, their analysis, the causes, identify and minimize the conseque safety and fluency.	Aloos. Improving	or transport
12MKOD	City Rail Transport	Z,ZK	5
	ian rail transport. Tram lines layout and city roads. Tram track geometry parameters. Tram track superstructure. Turnouts and other cons		-
-	ce. Underground and its basic characteristics. Underground nets in the world and undeground history in Prague. Underground track geom		
	track superstructure and substructure. Underground stations. Suburban rail transport.		
12POSD	Assessment of Transport Structures	KZ	3
IA process - histo	prical context, impact and variants, analysis of individual phases of EIA process, SEA, legislative framework in the Czech Republic, EU	J directives, imple	mentation
U directives, pub	lic participation, process in practice. Methods of assessing the effects of transport structures on the environment. SWOT analysis. Multicr	iteria methods foi	assessme
	of transport structures, TUKP method. Risk analysis. Landscape.		
12PPOK	Designing Roads, Highways and Motorways	KZ	3
	ownership, maintenance, management and categorization of roads and highways. Curve and transition curve. Sinuosity and standard r stopping and overtaking. Road body - shapes and proportions, bottom and superstructure. Drainage and components of roads. Safet	•	
varige of vision to	intersections.	y device. Crossing	gs, junctions
12PRMK	Linkson Dood Traffic and Doors		
	Urban Road Traffic and Design	7.7K	5
	Urban Road Traffic and Design pan road, elements and routes for traffic, pedestrian and cycling transport, projection of intersections, traffic lights and its traffic safety properties.	Z,ZK roposal, roundabe	5 outs, calmir
		oposal, roundab	_
	pan road, elements and routes for traffic, pedestrian and cycling transport, projection of intersections, traffic lights and its traffic safety projection of intersections.	oposal, roundab	_
12PUSS Connecting stat	oan road, elements and routes for traffic, pedestrian and cycling transport, projection of intersections, traffic lights and its traffic safety properties of traffic, precaution for blind & Disposition of traffic area, induction of traffic, organization and regulation of transports of Railway Stations Organization Disposition of Railway Stations on. Passenger transport equipment. Freight transport equipment. Branch lines and railway traffic inside industrial company areas. Zon	roposal, roundabo sport. KZ e stations. Forma	outs, calmir
12PUSS Connecting stat Rese	oan road, elements and routes for traffic, pedestrian and cycling transport, projection of intersections, traffic lights and its traffic safety properties of traffic, precaution for blind & Disposition of traffic area, induction of traffic, organization and regulation of transports of traffic, precaution for blind & Disposition of Railway Stations on Passenger transport equipment. Freight transport equipment. Branch lines and railway traffic inside industrial company areas. Zon rve stations. Technology of work in railway station with regard to its disposition. Railway station documentations in the Czech Republic	roposal, roundabo sport. KZ e stations. Forma railway network.	outs, calmir
12PUSS Connecting stat Rese	Dan road, elements and routes for traffic, pedestrian and cycling transport, projection of intersections, traffic lights and its traffic safety profession of traffic, precaution for blind & Disposition of traffic area, induction of traffic, organization and regulation of transport equipment. Disposition of Railway Stations Organization Disposition of Railway Stations Ion. Passenger transport equipment. Freight transport equipment. Branch lines and railway traffic inside industrial company areas. Zon rive stations. Technology of work in railway station with regard to its disposition. Railway station documentations in the Czech Republic Highways, Motorways and Intersections	roposal, roundabe sport. KZ e stations. Forma railway network. Z,ZK	3 ation yards.
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12PUSS Connecting stat Rese 12SDK Roads and motory	on road, elements and routes for traffic, pedestrian and cycling transport, projection of intersections, traffic lights and its traffic safety profession of traffic, precaution for blind & partially-sighted, parking, traffic area, induction of traffic, organization and regulation of transport equipment. Disposition of Railway Stations on. Passenger transport equipment. Freight transport equipment. Branch lines and railway traffic inside industrial company areas. Zon rive stations. Technology of work in railway station with regard to its disposition. Railway station documentations in the Czech Republic Highways, Motorways and Intersections vays network, transport output. Types of direction curves. Hairpin bend. Stopping sight distance and overtaking sight distance. Levels of traffic area, induction, traffic inside industrial company areas. Zon rive stations. Types of direction curves. Hairpin bend. Stopping sight distance and overtaking sight distance. Levels of traffic area, induction of traffic area, i	roposal, roundable sport. KZ e stations. Forma railway network. Z,ZK affic service. Des	outs, calmir 3 tion yards. 4 ign elemen
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12PUSS Connecting stat Rese 12SDK Roads and motory of crossroads ar 12VHD Importance of pu	Dan road, elements and routes for traffic, pedestrian and cycling transport, projection of intersections, traffic lights and its traffic safety profession of traffic, precaution for blind & partially-sighted, parking, traffic area, induction of traffic, organization and regulation of transport partially-sighted, parking, traffic area, induction of traffic, organization and regulation of transport. Organization Disposition of Railway Stations on. Passenger transport equipment. Freight transport equipment. Branch lines and railway traffic inside industrial company areas. Zonarve stations. Technology of work in railway station with regard to its disposition. Railway station documentations in the Czech Republic Highways, Motorways and Intersections Pays network, transport output. Types of direction curves. Hairpin bend. Stopping sight distance and overtaking sight distance. Levels of tradintersections. Crossroads. Roundabouts. Intersections. Special types of junctions. Capacity of crossroads and intersections. Structure motorways. Road engineering structures. Assessment of route alternatives. Public Transport Ublic transport, transport research, evaluation, planning of lines routes and territory operation, planning of operation conception, planing attorned conception, planing of operation conceptio	roposal, roundable sport. KZ e stations. Formal railway network. Z,ZK affic service. Desire of pavement of Z,ZK aration of operation	3 httion yards. 4 ign elemen r roads and 5 on, network
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12PUSS Connecting state Research 12SDK Roads and motory of crossroads are 12VHD Importance of presenceptions, opera	Pan road, elements and routes for traffic, pedestrian and cycling transport, projection of intersections, traffic lights and its traffic safety profession of traffic, precaution for blind & parking, traffic area, induction of traffic, organization and regulation of tramport traffic, precaution for blind & parking, traffic area, induction of traffic, organization and regulation of tramport traffic, precaution for blind & parking, traffic area, induction of traffic, organization and regulation of tramport on traffic, precaution and regulation of tramport transport equipment. Freight transport equipment. Branch lines and railway traffic inside industrial company areas. Zongrve stations. Technology of work in railway station with regard to its disposition. Railway station documentations in the Czech Republic Highways, Motorways and Intersections ### Highways, Motorways and In	roposal, roundable sport. KZ e stations. Formal railway network. Z,ZK raffic service. Design of pavement of the sport of pavement of the sport of	3 Ition yards. 4 ign element f roads and 5 on, network of timetables 2 2 4
12PUSS Connecting state Rese 12SDK Roads and motory of crossroads ar 12VHD Importance of pronceptions, opera 12X31D 12X32D 12X33D 12Y1AE	Dan road, elements and routes for traffic, pedestrian and cycling transport, projection of intersections, traffic lights and its traffic safety profession of traffic, precaution for blind & parking, spartially-sighted, parking, traffic area, induction of traffic, organization and regulation of tramport contents of traffic precaution for blind & parking, traffic area, induction of traffic, organization and regulation of tramports or traffic, precaution for blind & parking, traffic area, induction of traffic, organization and regulation of tramports. Organization Disposition of Railway Stations on. Passenger transport equipment. Freight transport equipment. Branch lines and railway traffic inside industrial company areas. Zon rive stations. Technology of work in railway station with regard to its disposition. Railway station documentations in the Czech Republic Highways, Motorways and Intersections Highways, Motorways and Intersections Highways, Motorways and Intersections All Intersections Froject 1 DOS Project 2 DOS	roposal, roundable sport. KZ e stations. Formal railway network. Z,ZK raffic service. Desire of pavement of the station of operation of and realisation of the station of	3 Ition yards. 4 ign element roads and 5 nn, network of timetable 2 2 4 2
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12PUSS Connecting state Reseated Tasport	van road, elements and routes for traffic, pedestrian and cycling transport, projection of intersections, traffic lights and its traffic safety profession for traffic, precaution for blind & mp; partially-sighted, parking, traffic area, induction of traffic, organization and regulation of transport partially-sighted, parking, traffic area, induction of traffic, organization and regulation of transport partially-sighted, parking, traffic area, induction of traffic, organization and regulation of transport equipment. Freight transport equipment. Branch lines and railway station documentations in the Czech Republic Highways, Motorways and Intersections. Railway station documentations in the Czech Republic Highways, Motorways and Intersections. Highways, Motorways and Intersections	roposal, roundable sport. KZ e stations. Formal railway network. Z,ZK raffic service. Desire of pavement of the sport of	3 attion yards. 4 ign element froads and 5 nn, network of timetable 2 4 2 tition. Speciand nature 2 ssign of this des a basic
12PUSS Connecting state Reseated Processing State Processing St	pan road, elements and routes for traffic, pedestrian and cycling transport, projection of intersections, traffic lights and its traffic safety profession of traffic, precaution for blind & project profession of traffic, precaution for blind & project pr	roposal, roundable sport. KZ e stations. Formal railway network. Z,ZK raffic service. Desire of pavement of the sport of	3 attion yards. 4 ign element froads and 5 nn, network of timetable 2 4 2 tition. Speciand nature 2 ssign of this des a basic
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12Y1HD	Traffic Noise	KZ	2
	on, basic terms, quantities. Basics of physiological acoustic, noise impacts on human body. Acoustic legislation, standarts, regulation		
area, principles	of urban acoustic, noise transmission, soundproofing. Types of noise sources in area. Determination of acoustic situation in the area	of interest. Metho	dology of
12Y1KN	computing and measurement of transport noise. Acoustic studies, measuring protocol.	KZ	2
	Combined Transportation oort strategy and legislation. Load units. Means of transport in combined transport. Combined transport systems. Transshipping areas.		1
12Y1KP	Communication and Promotion of Transport Projects	KZ	2
	Public Relations and the power of public opinion. Work and tasks of PR department and press spokesperson. Communication with th		1
	round. Communication strategy of transport projects. Systematic goodwill building. Crisis situations in communication and preparation f		
	influence of political marketing and political PR on transport projects. Lobbing.		
12Y1PC	Pedestrian and Cycling Transport	KZ	2
Routes for pedestri	ans. Pedestrian crossings. Modifications for blind, dim-sighted and disabled people. Design of cycle routes network. Ways of cycle route	layout and design	n parameters
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 transp	ort modes,
	crossroads. Traffic signs and road marking for cyclists.		1
12Y1PD	Assessment of Transport Structures	KZ	2
	sport structures, the EIA process. Multicriteria assessment methods, risk analysis, SWOT analysis. Landscape character, possibilities of	-	
transport structure	s on the landscape. Rating fragmentation and landscape connectivity in the preparation of linear structures. Practical examples of ass the environment.	essment of trainic	buildings on
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		
•	rve stations. Technology of work in railway station with regard to its disposition. Railway station documentations in the Czech Republic		don yarao.
12Y1RU	Railway Lines Reconstruction	KZ	2
	ne operational, maintaining lines and stations, geometrical alignment of railway line, vehicles for railway superstructure and substruct		1
	and organising possesions, preparation of railway lines reconstruction and maintenance, process of railway line reconstruction		
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 developed		
medium and long-t	erm strategy of the Ministry of Transport. Maintenance of roads winter and summer, its requirements, specifics, possibilities and repair	methods are disc	cussed in the
	classroom as well as investment activity in highway engineering.		
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 lines are materially and transport varieties. Transport lines are related to the coordinate of lines are related to the lines are related		_
basic operating p	earameters and transport variations. Types of lines according to their routing and basic operating parameters. Time coordination of line Organization of tram operation in Prague. Tram safety.	s. Operational tra	ilic control.
12Y1ZU	Principles of Urbanism	KZ	2
	of city and settlement building. Functional components and their mutual relations (working, living, recreation, transportation). Spacial		I
	Types of towns or cities with a certain prevailing function, forms of their development. Brief overview of land-use planning.	g	
12ZAR	Introduction to Architectural Design	Z	3
Urbanism and	d architecture of traffic systems. Bus and trolley-bus transport. Tramway and town tracks. Design of vehicles. Subway. Railway transpor	t. Railway station	1
	communications. International airports.		
12ZELP	Railway Operation	Z,ZK	4
Legislation in rails	way transport. Railway vehicles. Railway signals and signal devices. Railway traffic organisation and operation. Simplified railway traffi	operation. Railw	ay vehicles
	brakes. Railway vehicles marking. Operation intervals. Theoretical graph of train running.		T
12ZTS	Railway Lines and Stations	Z,ZK	4
Rail transport. Ra	ailway track geometry parameters. Route layout of railway lines. Railway line construction - railway substructure and superstructure. S	· -	lway lines.
407\/DI	Railway control systems in relation to infrastructure. Operating and carriage points. Railway lines net and category. Traction in rail to		
12ZYDI	Introduction to Transportation Engineering	Z,ZK	2
Role of transportat	ion in land-use planning. Basic terms in transportation engineering. Traffic survey and traffic prognosis. Introduction to topic of roads, p impacts of transportation to environment and safety.	iblic mass transp	ori. Negative
14ASD	Algorithm and Data Structures	KZ	3
	ze problems, design a theoretical solution to a given problem and write the resulting algorithm using flowcharts, practice reading algor		_
-	lean algebra to construct constraints in algorithms. Students will be introduced to the basics of the Python programming language - v		-
	will learn to work with variables of basic data types (integer, floating point and string) and the list data structure in their progra	_	
14DATS	Database Systems	KZ	2
	of database systems, conceptual model, relational data model, the principles of normal forms, relational database design, security and	d integrity of data	database
	queries, relational algebra, SQL language, client / server, multilayer architectures, distributed database systems. Access to data via	he WWW.	
14DPK	Digital Support for Designing of Roads and Highways	Z	0
	Seminars possibilities of technical processing problems focused on designing of roads and highways.		
14DZT	Digital Support for Railway Lines	Z	0
	Seminars possibilities of technical processing problems solved in the field of railway lines.		T
14KSP	Constructing with Computer Aid	KZ	2
=	rm determination. CAD role in projecting system model. Existing CAD systems on Czech market. Project creation, basic common wor		
and CA systems.	Co-ordinated systems, CAD environment skill (basics of constructing, dimensioning, modifications, user interfaces, projecting possib	iites, AutoCAD e	nvironment
140000	profiles, drawings with raster foundaments). Computer Aid of Transportation Projecting	V7	2
14PODP	Computer Aid of Transportation Projecting pplication for transportation projecting aid. AutoCAD environment possibilities of basic tasks automatizing (programming, scripting, dat	KZ	3
	pplication for transportation projecting aid. AutoCAD environment possibilities of basic tasks automatizing (programming, scripting, data utes, relation to databases). Work in projecting group, external references. Basic tasks for cummunication projecting (clotoidic transition		
modification (dtill)	section). Basics of 3D modelling.	1 001 10, 01000 0110	, iongituania
14PRG	Programming	KZ	2
	ramming builds on and fully extends the course 14ASD (Algorithmization and Data Structures). The knowledge of the Python progran		1
-	rticipant gains skills and can apply them to solve various follow-up tasks. Main topics: lists, multidimensional arrays, sorting and searc		-
·	working with date and time, regular expressions, functions and procedures, working with files (CSV, JSON, XML).		
		-	
14X31D	Project 1 DOS	Z	2

14X32D	Project 2 DOS	Z	2
14X33D	Project 2 DOS Project 3 DOS	Z	4
14Y1AV	Animation and Visualization	KZ	2
	tions and modeling of NURBS, Patch objects, selection of objects (according to filter and properties). 3D Studio MAX systems and Spa		_
	s, rendering filters, Motion blur, advanced animations, Motion panel. Modeling for morphing and animation, bone formation, animation		
14Y1BE	Barrierless Transport	KZ	2
The issue of barrie	less accessible public transportation in terms of architectural barriers and also for transportation-technological point of view. Students v	vill gain theoretica	knowledge
of barrierless envir	onment roads, railway stations, public transport stops, terminal buildings, vehicles, public transport, information and orientation systems	and transportation	n technology
4.4V4.DM	Theoretical knowledge will be supplemented by practical examples.	1/7	
14Y1BM Basic biometric to	Biometric Methods rms, authentication methods, principles and performance measurement of biometric systems, overview of biometric technologies, har	KZ	ecognition
	nethod, 2D and 3D face recognition, vein patterns on the wrist, ear biometrics, fingerprint recognition, skin spectroscopy, behavioral m	3,	,
14Y1HW	in transport applications, safety and risks of biometric technologies. Computer Hardware	KZ	2
	computer Figure And Water computer architecture and separate p arithmetic and logical units, I/O subsystem.		1
14Y1MP	Modeling Complex Assemblies and Models in Parametric Modeller	KZ	2
	gramming - tools and methodology of working subassemblies and assemblies, sheet metal parts modelling, welded assemblies, pipeli Photorealistic output rendering - physical and material properties, lighting sources. MKP - visual example.		l .
14Y1OJ	Object - oriented programming in JAVA	KZ	2
	Encapsulation. Classes. Attributes. Access modifiers. Methods and overloading. Special methods (constructors, getters / setters). Bas		
data types. Inherita	nce. Polymorphism. Statics, constants, interfaces, abstract classes, enum, packages, exceptions, collections, generics, lambda expre	ssions, anonymo	us functions
14Y10P	Operating System	KZ	2
	tallation GNU/Linux OS. X-window system. Rights management - users and groups, ACL rights. Filesystems and attributes. Programs	•	
runlevels. Basic	console programs / commands. Config files. SW management, package systems. Programs in graphic shell - text, spreadsheet, graph communication. Services management. Safe and secure configuration of OS. Remote administration.	ic editors, sound,	video and
14Y1P2	Computer Aid of Transportation Projecting 2	KZ	2
	oplication for transportation projecting aid. AutoCAD environment possibilities of basic tasks automatizing (programming, scripting, data		
modification (attrib	utes, relation to databases). Work in projecting group, external references. Basic tasks for cummunication projecting (clotoidic transition section). Basics of 3D modelling.	curve, cross-and	i iorigituairia
14Y1PA	3D Modeling in AutoCAD	KZ	2
	arametric modeller (AutoCAD) environment, scenes rendering, creation of planar and volumetric objects, user setup creation, object of		I
•	connected with external database. Basic definition of work with lights, materials and reflexes. Models presentation.		
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 editir		in the user
4.074.51	level scope) using layers, DPI, colors. Basics of digital photography, scanning and computer technology like monitors and graphics		
14Y1PI	Corporate Information System n-knowledge, components of information system, syntatic and semantic sense of data, structure of corporate information system, par	KZ	2
	uction, storage, etc.), corporate information politic and information control, risks of information system operation, legal environment of		
(porocriamono, proc	state information system, information system security, data protection, safety politics.		oporano
14Y1PJ	C Programming Language	KZ	2
C programming lar	guage. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation, strin	g, files, structures	and unions
	Implementations of abstract data types (FIFO, LIFO, list), programming techniques (sorting, searching, recursion), using bitwise op	rerators.	
14Y1PZ	Advanced Data Processing in Spreadsheets	KZ	2
	familiar with principles of working in a spreadsheet. Graphic layout of the table appearance, formatting of numbers, insertion of formul		
addressing, error d	etection. 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.	olution illiality, soi	ivei, macros
	data ditatifoto Exampleo dita questione nom ranodo companios dita training.		
14Y1TI	Creating Interactive Internet Applications	K7	2
14Y1TI Possibilities of scri	Creating Interactive Internet Applications ting language PHP. Overview of PHP language syntax, and functions. Analysis of finished scripts and demonstration of solutions. Your in PHP language.	KZ own application p	2 programmed
	ting language PHP. Overview of PHP language syntax, and functions. Analysis of finished scripts and demonstration of solutions. Your		1
Possibilities of scrip 14Y1UP Students will be	biting language PHP. Overview of PHP language syntax, and functions. Analysis of finished scripts and demonstration of solutions. Your 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, creat obs, etc. Footnotes, captions, index. They practice corrections of finished documents. The goal is to prepare students for seamless editions.	wn application position KZ e tables of conter	programmed 2 nts, lists of
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Possibilities of scrip 14Y1UP Students will be figures, tables, gra 14Y1VM	biting language PHP. Overview of PHP language syntax, and functions. Analysis of finished scripts and demonstration of solutions. Your 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, creat ohs, etc. Footnotes, captions, index. They practice corrections of finished documents. The goal is to prepare students for seamless edicular so that they are able to concentrate mainly on writing a thesis. Development of Applications for Mobile Devices	KZ e tables of conterting dissertations	2 nts, lists of and theses
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Possibilities of scrip 14Y1UP Students will be figures, tables, gra 14Y1VM Object oriented 14Y1W1 Students will learn and selectors 14Y1W2 Students will learn 14Y1WG	thing language PHP. Overview of PHP language syntax, and functions. Analysis of finished scripts and demonstration of solutions. Your 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, creat obs, etc. Footnotes, captions, index. They practice corrections of finished documents. The goal is to prepare students for seamless editions to make 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, GUI. 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 practiced Webdesign 2 advanced techniques CSS, responsive webdesign, CSS frontends, content management systems, JavaScript, jQuery, SEO, web sendirectives. Topics will be practiced on practical examples. Webdesign	KZ e tables of conterting dissertations KZ containers, threa KZ and usability, CS d on practical exa KZ ver installation + o	2 hts, lists of and theses 2 ds, menu, 2 S properties amples. 2 configuration
Possibilities of scrip 14Y1UP Students will be figures, tables, gra 14Y1VM Object oriented 14Y1W1 Students will learn and selectors 14Y1W2 Students will learn 14Y1WG	biting language PHP. Overview of PHP language syntax, and functions. Analysis of finished scripts and demonstration of solutions. Your 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, creat obs, etc. Footnotes, captions, index. They practice corrections of finished documents. The goal is to prepare students for seamless editions, etc. Footnotes, captions, index. They practice corrections of finished documents. The goal is to prepare students for seamless editions to make 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, GUI. 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 practiced. Webdesign 2 advanced techniques CSS, responsive webdesign, CSS frontends, content management systems, JavaScript, jQuery, SEO, web sendirectives. Topics will be practiced on practical examples.	KZ e tables of conterting dissertations KZ containers, threa KZ and usability, CS d on practical exa KZ //er installation + co	2 hts, lists of and theses 2 ds, menu, 2 S properties imples. 2 configuration
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Possibilities of scrip 14Y1UP Students will be figures, tables, gra 14Y1VM Object oriented 14Y1W1 Students will learn and selectors 14Y1W2 Students will learn 14Y1WG Students will learn	ting language PHP. Overview of PHP language syntax, and functions. Analysis of finished scripts and demonstration of solutions. Your 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, creat obs, etc. Footnotes, captions, index. They practice corrections of finished documents. The goal is to prepare students for seamless edit 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, GUI. 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 practiced Webdesign 2 advanced techniques CSS, responsive webdesign, CSS frontends, content management systems, JavaScript, jQuery, SEO, web sendirectives. Topics will be practiced on practical examples. Webdesign In the basics of HTTP communication, URL and addressing, HTML5 markup language, advanced CSS3 techniques, accessible and united basics of HTTP communication, URL and addressing, HTML5 markup language, advanced CSS3 techniques, accessible and united basics of HTTP communication.	KZ e tables of conterting dissertations KZ containers, threa KZ and usability, CS d on practical exa KZ ver installation + contents KZ sable web rules, incomples. KZ	2 hts, lists of and theses 2 ds, menu, 2 S properties imples. 2 configuration 2 responsive

			r -
14Y1ZM	Fundamentals of parametric and adaptive modeling ducts and parts creation. Sketch drawing by help of geometric relations, parametric dimensions, creation of adaptive models from 2D	KZ sketches Impor	2 t and exp
asies of work at pro	from and to another systems. Fundamentals of assemblies creation.	sketories. Impor	t and exp
14ZDA	Data Processing	Z	3
	processing and analysis tools. Practical part of the training - introduction to the working environment, applied examples of data process	-	
metho	ds of presentation of the results. Seminar papers on open data. Consultation hours for seminar papers. Seminar paper submission an	d presentation.	
15DPLG	Transportation Psychology	Z	2
	gy and its basic concepts. Information intake, decision-making and behaviour. Performance. Engineering psychology and vehicle constru		
	route and traffic conditions, accidents and traffic incidents. Selection and training of the staff. Work and leisure. Age as a factor in transcription of the staff.	nsport operation.	
15JZ1A	Foreign Language - English 1	Z	3
	res and Style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and com stylistics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles of		. Element
15JZ2A		Z,ZK	3
	Foreign Language - English 2 res and style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and com	•	1
	stylistics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles of		Liomoni
15JZ3F	Foreign Language - French 3	Z	3
	tics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lar	nguage structure	knowled
nd perceptive and	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with the communicative skills, vocabulary development.	th (professional)	text and
	features. Practice of oral and written presentation.		
15JZ3I	Foreign Language - Italian 3	Z	3
	tics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lar		
na perceptive and	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work wi features. Practice of oral and written presentation.	tn (professional)	text and
15JZ3N	•	Z	3
	Foreign Language - German 3 tics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lar	-	_
	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work wi		
	features. Practice of oral and written presentation.		
15JZ3R	Foreign Language - Russian 3	Z	3
rammar and stylis	tics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lar	nguage structure	knowled
nd perceptive and	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with the communicative skills, vocabulary development.	th (professional)	text and
	features. Practice of oral and written presentation.		_
15JZ3S	Foreign Language - Spanish 3	Z	3
-	tics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lar communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work wi		
na perceptive and	features. Practice of oral and written presentation.	ur (proicessional)	toxt and
15JZ4F	Foreign Language - French 4	Z,ZK	3
	tics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lar	•	1
nd perceptive and	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work wi	th (professional)	text and
	features. Practice of oral and written presentation.		
15JZ4I	Foreign Language - Italian 4	Z,ZK	3
-	tics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lar		
nd perceptive and	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work wi features. Practice of oral and written presentation.	th (professional)	text and
15JZ4N	Foreign Language - German 4	Z,ZK	3
	tics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lar	•	
•	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work wi		
	features. Practice of oral and written presentation.		
15JZ4R	Foreign Language - Russian 4	Z,ZK	3
rammar and stylis	tics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lar	nguage structure	knowled
nd perceptive and	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work wi	th (professional)	text and
	features. Practice of oral and written presentation.		1
15JZ4S	Foreign Language - Spanish 4	Z,ZK	3
-	tics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lar communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work wi		
ia perceptive and	features. Practice of oral and written presentation.	im (professional)	text and
	Project 1 DOS	Z	2
15X31D	LIVIEGELIDOO	<u>~</u>	
15X31D 15X32D	•	7	2
15X32D	Project 2 DOS	Z	2
15X32D 15X33D	Project 2 DOS Project 3 DOS	Z	4
15X32D 15X33D 15Y1BO	Project 2 DOS Project 3 DOS Work Safety and Health Protection in Transportation	Z KZ	4
15X32D 15X33D 15Y1BO	Project 2 DOS Project 3 DOS Work Safety and Health Protection in Transportation Work Safety and Health Protection and health protection with focus on transportation. Health protection with focus on transportation.	Z KZ	4
15X32D 15X33D 15Y1BO undamental legisla	Project 2 DOS Project 3 DOS Work Safety and Health Protection in Transportation ative, definition of terms, risks and possible health damage, working conditions and health protection with focus on transportation. Health insurance of home and foreign business trips, statistics, working practice.	Z KZ alth protection pr	4 2 ogramm
15X32D 15X33D 15Y1BO undamental legisla	Project 2 DOS Project 3 DOS Work Safety and Health Protection in Transportation Work Safety and Health Protection and health protection with focus on transportation. Health protection with focus on transportation.	Z KZ alth protection pr	4 2 rogramm
15X32D 15X33D 15Y1BO undamental legisla 15Y1DZ dorse-drawn railwa	Project 2 DOS Project 3 DOS Work Safety and Health Protection in Transportation ative, definition of terms, risks and possible health damage, working conditions and health protection with focus on transportation. Health insurance of home and foreign business trips, statistics, working practice. History of Railway	Z KZ alth protection pr KZ blic", electric trac	4 2 cogramm
15X32D 15X33D 15Y1BO undamental legisla 15Y1DZ Horse-drawn railwa	Project 2 DOS Project 3 DOS Work Safety and Health Protection in Transportation ative, definition of terms, risks and possible health damage, working conditions and health protection with focus on transportation. Health insurance of home and foreign business trips, statistics, working practice. History of Railway ays, steam railways, railway network development in the 2nd half of 19th century, regional railways epoch, railways of the "First Republication of the project 2 DOS Work Safety and Health Protection in Transportation Health Protection in Transportation Health Protection in Transportation Work Safety and Health Protection in Transportation Health Protection in Transportation Work Safety and Health Protection in Transportation	Z KZ alth protection pr KZ blic", electric trac	4 2 cogrammo
15X32D 15X33D 15Y1BO undamental legislands 15Y1DZ Horse-drawn railwa	Project 2 DOS Project 3 DOS Work Safety and Health Protection in Transportation ative, definition of terms, risks and possible health damage, working conditions and health protection with focus on transportation. Here health insurance of home and foreign business trips, statistics, working practice. History of Railway ays, steam railways, railway network development in the 2nd half of 19th century, regional railways epoch, railways of the "First Reputagy development in the 2nd half of 20th century, high-speed railway origins, railway lines closing, important long-distance train connection	Z KZ alth protection pr KZ blic", electric trac	4 2 cogrammo

_15Y1FD			
_ '	French Area Studies and Transportation	KZ	2
France - geograp	by and regions, transport infrastructure. Paris and its sights, city public transport. Road traffic, motorways, railway traffic, TGV, air trai	ffic, specialised teri	minology.
	nch society and culture. Current political system. System of education, studying in France. Selected authors of French literature. Fren	· · · · · · · · · · · · · · · · · · ·	0.
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		
		•	or tariii ariu
	ince systems. History of city transport in Prague and Brno. History of tram, bus and trolley-bus operation systems in the Czech Repul		
15Y1HE	Work Hygiene and Ergonomics in Traffic	KZ	2
-	of occupational hygiene and ergonomics, and their application in transport. Working environment factors, and the influence of these		
Creation and protect	ction of working conditions that do not damage public health. Mutual links: man-machine-environment. Adaptation of technology to po	ossibilities and skill	s of a man.
	Practical examples from the field of transportation; relevant legislature.		
15Y1HL	History of Civil Aviation	KZ	2
Beginnings of flying	g, development of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of a	irports in the Czec	h Republic.
	amous aviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era o		
	aviation. Modern era of civil aviation. Airline companies. Supersonic flying.		
15Y1MK	Modern History in Context: Every Day Life and Transport	KZ	2
101111111	Historical overview of modern history of every day life, science, technology and transport in a wider context.		_
4.E.V.4.N.E		1/7	
15Y1NE	German in the Economy and Society	KZ	. 2
Recent economic	and social issues of German speaking countries and of the EU. Reading and listening of texts. Lexical, grammatical and semantic ar	ialysis of texts. Disc	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 internation	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 conse	equences.
	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		
recrimed nome	combustion engines, electric engines, change of energy principles. Powertrain construction. Power transmission. Brake syste	-	1131103
400\/ 1\/			
16DYJV	Vehicle Dynamics	Z,ZK	5
	nanics. Wheel and axle suspension mechanism. Wheel to road positioning characteristics. Wheel - road contact. Skid and its characteristics.	_	- 1
acceleration and de	celeration. Vertical dynamics, spring suspension, driving characteristics. Directional dynamics, gyroscopical characteristics. Driving sta	ability conditions. A	erodynamic
	forces. Driving and feedback. ABS, ESP.		
16PAV	Passive Safety	Z,ZK	4
Road accident eval	uation. Testing and legislation. Crash tests. Carbody properties. Injury mechanics. Restrain systems. Airbags. Road user safety. Mathe	matic modelling. P	ost collision
	safety systems.		
16UDOP	Introduction into Vehicles	7	2
	portation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and wate	_	
vornoico ana tranoj	of transport. Lifting equipment and conveyors. Legislation.	r transport. 7 ttorria	avo modno
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16X32D	Project 2 DOS	Z Z	2
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17FID	Financing and Investment in Transport	Z,ZK	4
	ng of transport infrastructure, the role of public administration in the financing and realization of investment in transport, the investment programs and their rules, competition, effectiveness and efficiency of spending public funds, evaluation systems of public projects and		ycle, subsid
17TEDL		KZ	3
	Transport Technology and Logistics hisport 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 using		
17X31D	Project 1 DOS	Z	2
17X32D	Project 21 DOS	 Z	2
17X32D	Project 3 DOS	<u>Z</u>	4
17X33D	·	KZ	2
	Public Sector Economy Incial theory of public sector, public choice theory, externalites, decisions about public finance allocation, economic assesment of public		_
	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		_
ogionios ammio po	air cargo. Information systems in air transport. Global distribution systems.	po. (p. 00000 pao	oongoro a.
17Y1MD	Marketing in Transportation	KZ	2
	s of marketing applied to transport issues, marketing tools suitable for transport as a service, specifics of public passenger transport are		1
	the application of marketing.	· ·	
17Y10F	Personal Finance	KZ	2
	(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		
	(retirement savings and insurance).		
17Y1PM	Personnel Management	KZ	2
Human sou	ces, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, interc	cultural communic	cation.
17Y1SK	Urban and Regional Rail Transport Systems	KZ	2
Factors affecting	transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, lin	e networking. Cr	eating and
evaluation of th	e timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transpo	rt preferences. T	he role of
	marketing.		_
17Y1SL	Sociology of Human Resources	KZ	2
uman resources	and their importance, work group as a special kind of social group, communication, personal management, modern management, huma	an resources plar	nning, cultu
17X (10T	of the organization. Titan Simulation		
17Y1ST			
	gement game simulating the business decisions. Lets 2-8 student groups to produce and compete in the market with the same produc ntity and capacity of production, plan budgets for marketing, research and development. They become familiar with the consequences		
letermine the qua	gement game simulating the business decisions. Lets 2-8 student groups to produce and compete in the market with the same product 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. Dynamics of Structures and Systems	et. Students set a of their decisions	price and s by the for
18DYKS Vibration of syste	gement game simulating the business decisions. Lets 2-8 student groups to produce and compete in the market with the same product 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. Dynamics of Structures and Systems ms with multiple degrees of freedom. Natural modes and natural frequencies. Method of stiffness constants, method of elastic constants	et. Students set a of their decisions Z,ZK ts, other numeric	price and s by the for 3 all methods
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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
Basic electronic amplifiers, basic l	semiconductor components, their principles, characteristics and typical connection diagrams. Semiconductor PN junction diodes, translogic gates. Functions of basic electronic circuits and methods for their designs (rectifiers, voltage regulator with Zener diode, transisto amplifier as an inverting and noninverting amplifier).	KZ sistors, thyristor, or or as an amplifier,	2 operational operational
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Basic electronic amplifiers, basic lamplifiers, basic lamplifiers, basic lamplifiers, basic lamplifiers, basic lamplifiers, basic electronic lamplifiers, basic electronic lamplifiers, basic lamplifiers, basic electronic lamplifiers, basic electronic lamplifiers, basic electronic lamplifiers, basic electronic lamplifiers, basic lamplif	semiconductor components, their principles, characteristics and typical connection diagrams. Semiconductor PN junction diodes, translogic gates. Functions of basic electronic circuits and methods for their designs (rectifiers, voltage regulator with Zener diode, transisto amplifier as an inverting and noninverting amplifier). Alternative Forms of Transportation Project Financing such forms of financing in transportation and telecomunications, where the public sector body perform the final debtor, i. e. debt payment a direct participant of the transaction and it is not the counterparty of the financial institute which provides the funding. Issue of sector forms of transportation and telecomunication projects.	KZ sistors, thyristor, or as an amplifier, KZ ents come from it	2 operational operational 2 is budget bunative source
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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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Air traffic control the airpo 21Y1RZ The position of environment of hur 21Y1SI Familiarization	ATC Procedures and Activities procedures, basics of communication and phraseology, aircraft identification, spacing and traffic coordination. In addition, the course d arts 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 management resource management. Human resource planning. Search, recruitment and selection of employees. Motivation, evaluation and rem dismissal and redundancies of employees. Education of employees. Planning career management. ATC Simulator with the simulation environment, acquiring basic habits, aircraft identification procedures, vectoring, level changes, ATC clearance, use ng on basic vectoring, early application of vertical separation, EST and REV message passing. Practical exercises in the APPROACH	scusses air traffic s the infrastructu KZ nent. Internal and uneration of staff. KZ of RNAV points.	c control are. 2 I external Positionin 2 Practical
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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 compor	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 2025-07-24, time 18:49.