# Recomended pass through the study plan

# Name of the pass: Bachelor Full-Time TET-DOS from 2025/26

Faculty/Institute/Others:

Department:

Pass through the study plan: Bachelor TET-DOS Full-Time from 2025/26

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, Lukáš Svoboda, Tereza Panská Vít Fábera Vít Fábera (Gar.)	KZ	3	0P+2C+8E	Z	Z
11CAL1	Calculus 1 Tomáš Tasák, Olga Vraštilová, Magdalena Hykšová, Bohumil Ková, Ond ej Navrátil Bohumil Ková Ond ej Navrátil (Gar.)	Z,ZK	7	2P+4C+22E	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
11LA	Linear Algebra Magdalena Hykšová, Pavel Provinský, Lucie Kárná, Martina Be vá ová Magdalena Hykšová Martina Be vá ová (Gar.)	Z,ZK	3	2P+1C+10E	Z	Z
18MTY	Materials Science and Engineering Tomáš Doktor, Jaromír Kylar, Veronika Drechslerová, Nela Kr má ová, Jitka ezní ková, Jaroslav Valach, Vít Malinovský, Jaromír Kylar Jaroslav Valach Tomáš Doktor (Gar.)	Z,ZK	3	2P+1C+10E	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
18STD	Seminary from Technical Documentation	Z	0	0P+2C	Z	V
TVKZV	Physical Education Course	Z	0	7dní	Z	٧
15DPLG	Transportation Psychology	Z	2	2P+0C+6E	Z	
14KSP	Constructing with Computer Aid Lukáš Svoboda	KZ	2	0P+2C+8E	Z	
18TED	Technical Documentation  Jitka ezní ková, Vít Malinovský <b>Jitka ezní ková</b> Jitka ezní ková (Gar.)	KZ	2	1P+1C+8E	Z	
12ZYDI	Introduction to Transportation Engineering Zuzana arská, Dagmar Ko árková	Z,ZK	2	1P+1C	Z	

#### 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 Magdalena Hykšová	Z,ZK	5	2P+3C+20E	B L	Z
14PRG	Programming  Jana Kaliková	KZ	2	0P+2C+8E	B L	Z
18SAT	Structural Analysis	Z,ZK	4	2P+2C+14E	B L	Z
11STAT	Statistics Pavla Pecherková	Z,ZK	4	2P+2C+12E	L L	Z
20SYSA	Systems Analysis	Z,ZK	5	2P+2C+14E	L L	Z

17TEDL	Transport Technology and Logistics	KZ	3	2P+1C	L	Z
TV-2	Physical Education	Z	1		L	Z
21ZALD	Basics of Air Transport	KZ	2	0P+2C+8B	L	Z
12ZTS	Railway Lines and Stations	Z,ZK	4	2P+2C+10B	L	Z
14DZT	Digital Support for Railway Lines	Z	0	0P+2C	L	V
21SLD	Seminar of Air Transport	Z	0	0P+2C	L	V
18SS	Seminary from Structural Analysis	Z	0	0P+2C	L	V
11SSF	Secondary School Physics Course Zuzana Malá	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 Markéta Vojanová, Dana Boušová, Marie Michlová, Marek Tome ek, Jan Feit, Markéta Musilová, Peter Morpuss, Jitka He manová, Eva Rezlerová Lenka Monková (Gar.)	Z	3	0P+4C+10B	Z	Z
14DATS	Database Systems Jan Kr ál, Jana Kaliková Jana Kaliková (Gar.)	KZ	2	1P+1C+10B	Z	Z
11FYZ	Physics Old ich Hykš, Pavel Demo, Zuzana Malá, Tomáš Vít , Jana Kuklová <b>Jana</b> Kuklová Pavel Demo (Gar.)	Z,ZK	5	2P+2C+18B	Z	Z
12MDE	Transport Models and Transport Excesses Tomáš Pad lek, Josef Kocourek	Z,ZK	3	2P+1C+8B	Z	Z
12PPOK	Designing Roads, Highways and Motorways Tomáš Pad lek, Josef Kocourek, Petr Kumpošt Josef Kocourek (Gar.)	KZ	3	1P+2C+10B	Z	Z
18PZP	Elasticity and Strength Tomáš Doktor, Jitka ezni ková, Josef Jíra, Jan Šleichrt, Jan Vy ichl, Daniel Kytý, 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  Alena Rybi ková, Denisa Mocková, Dušan Teichmann Alena Rybi ková  Alena Rybi ková (Gar.)	Z,ZK	4	2P+2C+12E	Z	Z
20UITS	Introduction to Intelligent Transport Systems Martin Šrotý, Martin Langr, Ji í R ži ka, Patrik Horaž ovský, Vladimír Faltus, Pavel Hrubeš, Kristýna Navrátilová, Eva Haj iarová 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, Zuzana Malá, Tomáš Vít , Jana Kuklová <b>Zuzana Malá</b> Zuzana Malá (Gar.)	Z	0	0P+2C	Z	V
18SPP	Seminary from Elasticity and Strength Tomáš Doktor, Jan Vy ichl 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 Marek Tome ek (Gar.)	Z,ZK	3	0P+4C+10B	L	Z
16DOKY	Vehicle Technology	Z,ZK	5	2P+2C	L	Z
18KIDY	Kinematics and Dynamics	Z,ZK	4	2P+2C	L	Z
11MSP	Modeling of Systems and Processes  Bohumil Ková	Z,ZK	4	2P+2C+12B	L	Z
11SEMO	Seminar of Electromagnetic Field and Optics Zuzana Malá	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.	Min/Max 4/4			Z

		1		
		Min. cours.		
4S-BP-DOS-V2-22/23	4. sem. Bc. prezen ní TET-DOS 2. výb r p edm tu od 2022/23 11MDSD, 12PUSS	1	Min/Max	7
		Max. cours.	3/3	
		1		
		Min. cours.		
4S-BP-DOS-V3-22/23	4. sem. Bc. prezen ní TET-DOS 3. výb r p edm tu od 2022/23 14PODP,18MECK	1	Min/Max	_
45-68-005-73-22/23		Max. cours.	3/3	Z
		1		
		Min. cours.		
	PVP-B Bc. prezen ní TET-DOS od 2024/25 21Y1AM,00Y1XB, (see the list of groups below)	4	Min/Max	PV
		Max. cours.	8/8	PV
		4		

# Number of semester: 5

number of semes						
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, Michal Frydrýn, Tomáš Kohout, Tomáš Mi unek Tomáš Mi unek Tomáš Mi unek (Gar.)	Z,ZK	6	3P+2C	Z	Z
12ZELP	Railway Operation 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 níTET-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 níTET-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 Max. cours. 4	Min/Max 8/8			PV

# 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	ZK	4	2P+2C	L	Z

12PRMK	Urban Road Traffic and Design	Z,ZK	5	2P+2C	L	ZP
12VHD	Public Transport	Z,ZK	5	3P+2C	L	Z
		Min. cours.				
V4 DD DOC 22/22	Projekty Bc. prezen ní TET-DOS od 2022/23	3	Min/Max			
X1-BP-DOS-22/23	11X31D,12X31D, (see the list of groups below)	Max. cours.	8/8			ZP
		3				
		Min. cours.				
CC DD DOC V4 22/24	6. sem. Bc. prezen ní TET-DOS 1. výb r p edm tu od 2023/24	1	Min/Max			_
6S-BP-DOS-V1-23/24	16PAV,17FID	Max. cours.	4/4			Z
		1				
		Min. cours.				
66 BB BOS V2 22/24	6. sem. Bc. prezen ní TET-DOS 2. výb r p edm tu od 2023/24 12ZAR, 14ZDA	1	Min/Max			7
6S-BP-DOS-V2-23/24		Max. cours.	3/3			Z
		1				
		Min. cours.				
17 DD TET 00/00	Bc. TET (mimo LED) druhý jazyk od 2022/23	2	Min/Max			
JZ-BP-TET-22/23	15JZ3F,15JZ3I, (see the list of groups below)	Max. cours.	6/6			J
		2				
		Min. cours.				
V4 DD DOO 04/05	PVP-B Bc. prezen ní TET-DOS od 2024/25	4	Min/Max			
Y1-BP-DOS-24/25		Max. cours.	8/8			PV
		4				

# 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	f courses and on see here o	codes of members r below the list of c	of this ourses)	Comp	letion	Credits	Scope	Semester	Role
4S-BP-DC	9S-V1-22/23	4. sem. Bc. prezen ní	TET-DOS 1. v	ýbrpedm tuod 2	2022/23	Max.	cours. 1 cours. 1	Min/Max 4/4			z
11EMOP	Electromag	gnetic Field and Optics	12SDK	Highways, Motorways ar	nd Intersec						
4S-BP-DC	)S-V2-22/23	4. sem. Bc. prezen ní	TET-DOS 2. v	ýbrpedm tu od 2	2022/23	Min. o	cours.	Min/Max 3/3			z
11MDSD	Collecting	and Processing of Tra	12PUSS	Organization Disposition	of Rail						
4S-BP-DC		4. sem. Bc. prezen ní	<b>TET-DOS 3. v</b>	ýbrpedm tu od 2		Max.	-	<b>Min/Max</b> 3/3			z
14PODP	Computer	Aid of fransportation P	TOWECK	Mechanics of Constructi	ons					Т	
		5. sem. Bc. prezen ní		-		Max.	-	Min/Max 3/3			z
12DOSI	Traffic Surv	eys and Simulations	18DYKS	Dynamics of Structures	and Syste						
		5. sem. Bc. prezen ní		-	2023/24	Max.	-	<b>Min/Max</b> 5/5			z
12MKOD	City Rail Tr	ansport	16DYJV	Vehicle Dynamics					·		
5S-BP-DC	S-V3-23/24	5. sem. Bc. prezen ní	TET-DOS 3. v	ýbrpedm tu od 2	2023/24	Min. o	cours. 1	Min/Max 3/3			z

SS-BP-DOS-VI-23/24   6. sem. Bc. prezen niTET-DOS 1. výb r p edm tu od 2033/24   Min. cours.   1	12POSD										
Season	12POSD					Max.	cours.				
SS-BP-DOS-VI-23/24   6. sem. Bc. prezen niTET-DOS 1. výb r p edm tu od 2033/24   Min. cours.   1	12POSD						1				
SS-BP-DOS-V1-23/24   6. sem. Bc. prezen níTET-DOS 1. výb r p edm tu od 2023/24   Min. dours.		Assessmer	nt of Transport Structur	18NUMM	Numerical Methods in Mechanics			1			
SS-BP-DOS-V1-23/24   6. sem. Bc. prezen ni TET-DOS 1. výb r p edm tu od 2023/24   Max. cours.   1			·	1		Min.	cours.				
SS-BP-DOS-V1-23/24   6. sem. Bc. prezen ni TET-DOS 1. výb r p edm tu od 2023/24   Max. cours.   1								Min/M	2		
Passes   Salety	6S-BP-DOS	-V1-23/24	6. sem. Bc. prezen n	íTET-DOS 1. v	ýb r p edm tu od 2023/24		•		ах		Z
Passive Salety					,	Max.	cours.	4/4			
SS-BP-DOS-V2-23/24   6. sem. Bc. prezen níTET-DOS 2. výb r p edm tu od 2023/24   Min/Max   Max. cours   Min/Max   Min/							1				
SS-BP-DOS-V2-23/24   6. sem. Bc. prezen niTET-DOS 2. vyb r p edm tu od 2023/24   Max. cours. 3	16PAV	Passive Sa	fety	17FID	Financing and Investment in Tran .						
SS-BP-DOS-V2-23/24   6. sem. Bc. prezen niTET-DOS 2. vyb r p edm tu od 2023/24   Max. cours.   3/3   2   2   2   3/3   3/3   2   2   3/3   3/3   2   2   3/3   3/3   2   2   3/3						Min.	cours.				
SS-BP-DOS-V2-23/24   6. sem. Bc. prezen niTET-DOS 2. vyb r p edm tu od 2023/24   Max. cours.   3/3   2   2   2   3/3   3/3   2   2   3/3   3/3   2   2   3/3   3/3   2   2   3/3							1	Min/Ma	ax		
1	6S-BP-DOS	-V2-23/24	6. sem. Bc. prezen n	íTET-DOS 2. v	ýb r p edm tu od 2023/24	Max	coure				Z
JZ-BP-TET-22/23   Bc.TET (mimo LED) druhy jazyk od 2022/23   Min. cours.						IVIAX.		3/3			
JZ-BP-TET-22/23   Bc.TET (mimo LED) druhý jazyk od 2022/23   Min. Cours. 2   Min. Max							1				
JZ-8P-TET-22/23   Bc. TET (mimo LED) druhý jazyk od 2022/23   Max. cours.   2	12ZAR	Introduction	to Architectural De	14ZDA	Data Processing						
Secret   S						Min.	cours.				
15,223F							2	Min/Ma	ax		
	JZ-BP-TE	T-22/23	Bc.TET (min	no LED) druhý	ý jazyk od 2022/23	Max	cours	6/6			J
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15,1228				T				<u> </u>			
			<u> </u>								
X1-BP-DOS-22/23			<u> </u>		9 9 9 1						
X1-BP-DOS-22/23			0 0	1552411	Foreign Language - German 4		155Z4K		roreign Langu	lage - Russiali	4
X1-BP-DOS-22/23	100240	1 Oldigit La	Iguage Opanion 4			Min	cours				
Max. cours.   S/8   Received   Project   DOS   12X31D   Project   DOS   14X31D   Project   DOS   14X32D   Project   2 DOS   16X32D   Project   2 DOS   14X32D   Project   2 DOS   14X32D   Project   2 DOS   14X33D   Project   2 DOS   14X3D   14X3D   14X3D   14X3D   14X3D   14X3D   14X3D						IVIIII.					
11/331D	X1-RP-DO	S-22/23	Projekty Ro	prozon ní TE	T-DOS ad 2022/23		3	Min/Ma	ax		7D
11/331D	XI BI DO	O ZZ/ZO	Projekty BC.	prezen m i	1-DO3 00 2022/23	Max.	cours.	8/8			21
							3				
	11X31D	Proiect 1 D	OS	12X31D	Project 1 DOS		14X31D	1	Proiect 1 DOS	<u>                                       </u>	
Project 1 DOS	15X31D				<u>, , , , , , , , , , , , , , , , , , , </u>						
14332D	18X31D	Project 1 D	OS	20X31D	Project 1 DOS		21X31D		Project 1 DOS	3	
	22X31D	Project 1 D	OS	11X32D	Project 2 DOS		12X32D		Project 2 DOS	3	
Project 2 DOS	14X32D			_	<u>'</u>						
Project 3 DOS					<u> </u>						
Project 3 DOS 21X33D Project 3 DOS 21X33D Project 3 DOS 22X33D Project 3 DOS 22X33D Project 3 DOS 22X33D Project 3 DOS 2X33D Project 3 DOS 2X3D Project 5 D					<u>, , , , , , , , , , , , , , , , , , , </u>				•		
Project 3 DOS  Project 3 DOS  Project 3 DOS  Project 3 DOS  Min. cours.  4  Min/Max  Max. cours.  4  Applied Ecology  Work active participation in a scient  20Y1AF  Applied Ecology  Work active and Health Protectio  14Y1BE  Barriefaes Transport  15Y1BO  Work Safety and Health Protectio  20Y1EA  Energy Requirements of Vehicles  20Y1EA  Energy Requirements of Vehicles  20Y1EA  Energy Requirements of Vehicles  20Y1EA  Experimental Methods in Mechanic  15Y1FD  French Area Studies and Transpor  15Y1HD  History of Civil Aviation  15Y1HD  History of Civil Aviation  15Y1HD  History of Civil Aviation  16Y1EB  Mork Hygiene and Ergonomics in T  16Y1B  Mork Hygiene and Ergonomics in T  16Y1HD  Marketing in Transportation  18Y1MT  Engineering Materials  21Y1MD  Marketing in Transportation  18Y1MT  Engineering Materials  21Y1MP  Matlab for project-oriented stud  14Y1PO  Operating System  17Y1OF  Personal Finance  20Y1OK  Road Lighting  14Y1PC  Computer Graphics  14Y1PC  Personal Finance  20Y1OK  Road Lighting  12Y1PC  Pedestrian and Civilies  14Y1PC  Computer Graphics  14Y1PC  Compute					<u> </u>						
PVP-B Bc. prezen ní TET-DOS od 2024/25  Win/Max. cours. 4  Alternative Forms of Transportat 8/8  Alternative Forms of Transportat 8/8  Alternative Forms of Transportat 18Y1AM Anatomy, Mobility and Safety of 14Y1AV Animation and Visualization 12Y1AE Applied Ecology 20Y1AE Applied Electronics 14Y1BE Barrierless Transport 15Y1BO Work Safety and Health Protectio 15Y1BC Work Safety and Health Protectio 15Y1BC History of Railway 12Y1DS Project Documentation in Practic 20Y1EK Qualification in Electrical Engl 16Y1BN Energy Requirements of Vehicles 20Y1EA Environmental Aspects of Transpo 15Y1EH European Integration within Hist 15Y1FD French Area Studies and Transpor 15Y1HU History of Civil Avation 15Y1HD History of City Mass Transport 12Y1HD Traffic Noise 15Y1HE Work Hygiene and Ergonomics in T 16Y1BN Interactive simulators and simul 12Y1KN Combined Transportation 15Y1HE Work Hygiene and Ergonomics in T 16Y1BN Interactive simulators and simul 12Y1KN Combined Transportation 15Y1HD Air Traffic Services 17Y1LL Logistics of Passenger and Freig 20Y1LN Location and Navigation 17Y1MD Marketing in Transportation 18Y1MT Engineering Materials 21Y1MP Matlab for project-oriented stud 14Y1OP Operating System 17Y1OF Personal Finance 20Y1OK Road Lighting 11Y1PP Arametrical and Multicriterial 17Y1PPM Personal Finance 20Y1OK Road Lighting 11Y1PP Parametrical and Multicriterial 17Y1PPM Personal Finance 20Y1OK Road Lighting 11Y1PP Computer Graphics 14Y1P2 Computer Aid of Transportation P 18Y1PC Pedestrian and Cycling Transport 14Y1PG Computer Graphics 14Y1P2 Computer Aid of Transportation P 18Y1PC Pedestrian and Cycling Transport 14Y1PG Computer Graphics 14Y1P2 Computer Aid of Transportation P 18Y1PC Pedestrian and Cycling Transport 14Y1PA Air Traffic Control Operating Pr 12Y1PU Organization Disposition of Rail 12Y1FU Degratin	16V22D		<b>∩</b> e		I FIDIECL 3 DOS				Floject 3 DO3	•	
PVP-B Bc. prezen ní TET-DOS od 2024/25  PVP-B Bc. prezen ní TET-DOS od 2024/25  Adx. cours. 4  Max. cours. 4  Max. cours. 4  Alternative Forms of Transportat  2011AF Alternative Forms of Transportat  2111AB Anatomy, Mobility and Safety of  1411AV Animation and Visualization 1211AE Applied Ecology  2011AE Applied Electronics 1411BE Barrierless Transport 1511BO Work Safety and Health Protectio  1111Y1BK Error Detection Codes for Interl  2111BS Unmanned aircraft systems 1 1411BM Biometric Methods 1511DE History of Railway 1211BS Unmanned aircraft systems 1 1411BM Biometric Methods 1511DE History of Railway 1211BS Unmanned aircraft systems 1 1411BM European Integration within Hist  1611BY1EN Energy Requirements of Vehicles 2011EA Environmental Aspects of Transpor 1511EH European Integration within Hist  1611BY1EN Experimental Methods in Mechanic 1511BD History of Cityl Mass Transpor 1411HD Traffic Noise 1511HD History of Cityl Mass Transpor 1411HD Traffic Noise 1511HD History of Cityl Mass Transpor 1411HD Traffic Noise 1511HD Traffic Noise 1511HD Work Hyglene and Ergonomics in T 1611B Logistics of Passenger and Freig 2011LN Logation and Promotion of T 2011KP Communication and Promotion of T 2011KP Communication and Promotion of T 2011KP Communication and Promotion of T 2011KP Modeling Complex Assemblies and 1511MF Engineering Materials 2111MD Marketing in Transportation 1891MM Engineering Materials 2111MD Materials for project-oriented stud 1411PO April Modeling Complex Assemblies and 1511MF Personal Finance 2011OK Road Lighting 1111PO Personal Finance 2011OK Road Lighting 1111PO Personal Finance 2011OK Road Lighting 1111PO Personal Finance 2011OK Road Lighting 111PO Person	16X33D				<u> </u>				Project 3 DOS		
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14Y1UP	Editing of Theses in MS Word	18Y1UK	Introduction of Rail Vehicles	12Y1VR	Public Transport in Cities and R
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:

Calculus 1   Calculus 2   Z.	nn integral  ZK   tegrals.  ZK   t.  Z   on, the verified by t	5  4  5  3 elocity, and a selocity a
Sequence of real numbers and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative. Indefinite integral, Newton integral, Riemann integral. First-order differential equations, linear differential equations.  11CAL2  Linear differential equations and their systems, differential calculus of functions of several real variables. Riemann integral in Rn. Line and surface in the properties of mappings. First-order differential equations, linear differential equations and their systems, differential calculus of functions of several real variables. Riemann integral in Rn. Line and surface in the properties of the control of	nn integral ZK   legrals. ZK   zK   t. Z   zh   zh   zh   zh   zh   zh   zh   z	5 4 5 3 elocity, and all equation systems.
Sequence of real numbers and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative. Indefinite integral, Newton integral, Riema Riemann integral. First-order differential equations, linear differential equations.  11CAL2 Calculus 2 Linear differential equations and their systems, differential calculus of functions of several real variables. Riemann integral in Rn. Line and surface in Electric field. Electromagnetic Field and Optics Electric field. Electric current. Magnetic field. Electromagnetic field. Optics. Basics of solid-state physics.  11FVZ Physics Kinematics, dynamics, Newton's laws, force fields, mechanics of continuum, thermodynamics, introduction to electrostatics and electric current. Magnetic field. Electromagnetic field. Optics. Basics of solid-state physics.  11GIE Geometry of curves - parameterization, the arc of the curve, torsion and curvature, Frenet's trihedron. Kinematics - a curve as a trajectory of the moli acceleration of a particle moving on a curved path.  11LA Linear Algebra Z, Vector spaces (linear combinations, linear independence, dimension, basis, coordinates), Matrices and operations. Systems of linear equations and their classification. It in applications. Scalar product. Elimilarity of matrices (eigenvalues and eigenvectors), Quadratic forms and their classification. It in applications and adia collection, specific problems of the field of traffic data. Data preprocessing and analysis for use in additional their applications and adia collection, specific problems of the field of traffic data. Data preprocessing and analysis for use in additional Linear and nonlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and 2 transformations. Transfer function. Stability Discretization of continuous systems. System interconnection.  11SEMO Seminary and non-stationary system, causality. Convolutional integral. Laplace and 2 transformations. Transfer function. Stability Discretization of continuous syst	nn integral ZK   legrals. ZK   zK   t. Z   zh   zh   zh   zh   zh   zh   zh   z	5  3 selocity, and 3 minants a 3 ons.  4 al equation systems.
Linear differential equations and their systems, differential calculus of functions of several real variables. Riemann integral in Rn. Line and surface in I1EMOP	zK t. Z	3 selocity, and 3 sons. 4 selections systems.
Time	ZK t. Z Don, the ve ZK ZK ZK ZK ZK ZK differential differential dy of LTI sy	3 selocity, and 3 sons. 4 selections all equations systems.
TIFYZ   Physics   Xinematics, dynamics, Newton's laws, force fields, mechanics of continuum, thermodynamics, introduction to electrostatics and electric currer   TIGIE   Geometry   Kinematics   Geometry   Kinematics   Ceometry	t.  Z  Don, the very condition of the very c	3 minants a 3 minants a 4 al equatior systems.
11GIE Differential geometry of curves - parameterization, the arc of the curve, torsion and curvature, Frenet's trihedron. Kinematics - a curve as a trajectory of the moti acceleration of a particle moving on a curved path.  11LA Linear Algebra Z., Vector spaces (linear combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and their solvability their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classification.  11MDSD Collecting and Processing of Traffic Data K. Basic principles of traffic detection and data collection, specific problems of the field of traffic data. Data preprocessing and analysis for use in additional 11MSP Modeling of Systems and Processes  2. System and subsystem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differential and. Linear and nonlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function. Stability Discretization of continuous systems. System interconnection.  11SCFZ Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodynamics.  11SEMO Seminar of Electromagnetic Field and Optics Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.  11SSF Secondary School Physics Course Basics of kinematics, dynamics, thermodynamics, electric field and magnetic field.  11STAT Setatistics Z. Regression and correlation analysis  11TGA Graph Theory and its Applications in Transport Z., Basic terms of graph theory, paths in graphs, flows in networks, localien problems, design problems on graphs, optimum routing, use of graphs in other scientifications and methods for its assuring. Safety codes linear codes, cyclic codes, Reed-Solomon codes. Transmission channels, detection probability of u	Z	3 minants a 3 ons. 4 all equation systems. 0
Differential geometry of curves - parameterization, the arc of the curve, torsion and curvature, Frenet's trihedron. Kinematics - a curve as a trajectory of the moti acceleration of a particle moving on a curved path.  11LA   Linear Algebra   Z., Vector spaces (linear combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and their solvability their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classification.  11MDSD   Collecting and Processing of Traffic Data   R.   Basic principles of traffic detection and data collection, specific problems of the field of traffic data. Data preprocessing and analysis for use in additional   11MSP   Modeling of Systems and Processes   Z., System and subsystem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differential and. Linear and nonlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function. Stability   Discretization of continuous systems. System interconnection.  11SCFZ   Seminar of Physics   Seminar of Physics   Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodynamics.  11SEMO   Seminar of Electromagnetic Field and Optics   Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.  11STAT   Secondary School Physics Course   Secondary School Physics Course   Basics of kinematics, dynamics, thermodynamics, electric field and magnetic field.  11STAT   Statistics   Secondary School Physics Course   Secondary School Physics   Secondary School Physics   Secondary S	ZK   zy. Determ  Z   zy. Deter	3 minants a 3 ons. 4 all equation systems. 0
Vector spaces (linear combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and their solvability their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classification.  11MDSD   Collecting and Processing of Traffic Data   K Basic principles of traffic detection and data collection, specific problems of the field of traffic data. Data preprocessing and analysis for use in additional   11MSP   Modeling of Systems and Processes   Z, System and subsystem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differential and Linear and nonlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function. Stability Discretization of continuous systems, system interconnection.  11SCFZ   Seminar of Physics   Seminar of Physics   Seminar of Physics   Seminar of Physics   Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodynamics.  11SEMO   Seminar of Electromagnetic Field and Optics   Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.  11SSF   Secondary School Physics Course   Sasics of kinematics, dynamics, thermodynamics, electric field and magnetic field.  11STAT   Statistics   Stat	Z   application	minants a  3 ons.  4 dal equation systems.
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Basic principles of traffic detection and data collection, specific problems of the field of traffic data. Data preprocessing and analysis for use in additional 11MSP Modeling of Systems and Processes Z, System and subsystem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differential and Linear and nonlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function. Stabilit Discretization of continuous systems. System interconnection.  11SCFZ Seminar of Physics Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodynamics.  11SEMO Seminar of Electromagnetic Field and Optics Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.  11SSF Secondary School Physics Course Basics of kinematics, dynamics, thermodynamics, electric field and magnetic field.  11STAT Statistics Statistics Solving problems and sample, limit theorem Point estimate, construction and properties Interval estimates Parametric tests to Regression and correlation analysis  11TGA Graph Theory and its Applications in Transport Z, Basic terms of graph theory, paths in graphs, flows in networks, location problems, design problems on graphs, optimum routing, use of graphs in other sciental transport Project 1 DOS  11X31D Project 1 DOS  11X32D Project 2 DOS  11X33D Project 3 DOS  11Y1BK Error Detection Codes for Interlocking Systems  Safe communication and methods for its assuring. Safety codes linear codes, cyclic codes, BCH codes, Reed-Solomon codes. Transmission channels, detection or probability of undetected error. Design and assessment of detection codes; requirements of the European standard EN 50159.	application ZK differential y of LTI sy	ons.  4 al equation systems.
System and subsystem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differential and Linear and nonlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function. Stabilit Discretization of continuous systems. System interconnection.  11SCFZ Seminar of Physics Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodynamics.  11SEMO Seminar of Electromagnetic Field and Optics Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.  11SSF Secondary School Physics Course Basics of kinematics, dynamics, thermodynamics, electric field and magnetic field.  11STAT Statistics Statistics Segression and correlation analysis  11TGA Graph Theory and its Applications in Transport Z, Basic terms of graph theory, paths in graphs, flows in networks, location problems, design problems on graphs, optimum routing, use of graphs in other sciental transport Segression and Correlation and Project 1 DOS  11X31D Project 1 DOS  11X32D Project 2 DOS  11X33D Project 2 DOS  11X33D Project 3 DOS  11Y1BK Error Detection Codes for Interlocking Systems  Seed-Solomon codes. Transmission channels, detection opposability of undetected error. Design and assessment of detection codes; requirements of the European standard EN 50159.	differential	al equation systems.
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Seminar of Electromagnetic Field and Optics   Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.		1
Secondary School Physics Course Basics of kinematics, dynamics, thermodynamics, electric field and magnetic field.  11STAT Statistics Sasion probability Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Parametric tests Note Regression and correlation analysis  11TGA Graph Theory and its Applications in Transport Sasion terms of graph theory, paths in graphs, flows in networks, location problems, design problems on graphs, optimum routing, use of graphs in other scient 11X31D Project 1 DOS Project 2 DOS  11X32D Project 2 DOS  11X33D Project 3 DOS  11Y1BK Error Detection Codes for Interlocking Systems Kafe communication and methods for its assuring. Safety codes linear codes, cyclic codes, BCH codes, Reed-Solomon codes. Transmission channels, detection or probability of undetected error. Design and assessment of detection codes; requirements of the European standard EN 50159.	,	0
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11X31D Project 1 DOS  11X32D Project 2 DOS  11X33D Project 3 DOS  11Y1BK Error Detection Codes for Interlocking Systems K Safe communication and methods for its assuring. Safety codes linear codes, cyclic codes, BCH codes, Reed-Solomon codes. Transmission channels, detection or probability of undetected error. Design and assessment of detection codes; requirements of the European standard EN 50159.		4
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11X33D Project 3 DOS  11Y1BK Error Detection Codes for Interlocking Systems K Safe communication and methods for its assuring. Safety codes linear codes, cyclic codes, BCH codes, Reed-Solomon codes. Transmission channels, detection or probability of undetected error. Design and assessment of detection codes; requirements of the European standard EN 50159.		
11Y1BK Error Detection Codes for Interlocking Systems K Safe communication and methods for its assuring. Safety codes linear codes, cyclic codes, BCH codes, Reed-Solomon codes. Transmission channels, detection or probability of undetected error. Design and assessment of detection codes; requirements of the European standard EN 50159.		2
Safe communication and methods for its assuring. Safety codes linear codes, cyclic codes, BCH codes, Reed-Solomon codes. Transmission channels, detection or probability of undetected error. Design and assessment of detection codes; requirements of the European standard EN 50159.		4
		2 ssion erro
11Y1PV Parametrical and Multicriterial Programming K	Z	2
Solution to the problem of linear programming with a parameter in objective function, on right sides and in the matrix of coeficients of linear constraints. Computation	of efficie	ent solution
11Y1SI Transportation Software Engineering K Basic concepts of software engineering, ranging from domain analysis, requirement analysis and software architectures to analyses, design and implementation usi and practical usuage.		2 I techniqu
	Z	2
Basic concepts and terminology of graph theory, graph representation. Problems of graph theory, problem instance. Graph search algorithms, trees, minimum sp.	_	
path problem, Eulerian path, bipartite graph matching, flow networks, circulations, critical path method, traveling salesman problem. Problem of existence and optimizers for their solving. Computational complexity, dealing with NP-complete problems, heuristic approach.	ation and	d algorith
11Y1ZM Foundation of MATLAB Programming K To explain the principle of algorithmization, flow charts, description of MATLAB environment and its settings, MATLAB help, mathematical operators, matrices and control flow, inputs and outputs, graphics, optimization and program code debugging.		2 operation
12DOSI Traffic Surveys and Simulations Z,		
Ways of data collection in road transport. Traffic surveys. Automatic traffic counting. Preparation and implementation of traffic survey. Description of individual appractical examples from real measurements. Methods of data processing and evaluation. Principles of simulation, SW environment for creating traffic models. To procedure, calibration. Processing of a simple transport model based on real data.	elements ZK	3

12MDE	Transport Models and Transport Excesses	Z,ZK	3	
Parameters of the	traffic flow and methods for their measurement. Models of the traffic flow, communications load, line and urban systems. Theory of qu	eues, shock waves	. Quality of	
transport and its a	assessment. Statistical characteristics of transport. Transport excesses, their analysis, the causes, identify and minimize the consequences.	ences. Improving of	transport	
	safety and fluency.			
12MKOD	City Rail Transport	Z,ZK	5	
•	an rail transport. Tram lines layout and city roads. Tram track geometry parameters. Tram track superstructure. Turnouts and other consectives. Underground and its basic characteristics. Underground nets in the world and undeground history in Prague. Underground track geom			
stops and turn spac	track superstructure and substructure. Underground stations. Suburban rail transport.	etry parameters. Or	luerground	
12POSD	Assessment of Transport Structures	KZ	3	
	rical context, impact and variants, analysis of individual phases of EIA process, SEA, legislative framework in the Czech Republic, EU	1	-	
-	c participation, process in practice. Methods of assessing the effects of transport structures on the environment. SWOT analysis. Multicr	-		
	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	•		
Range of vision for	stopping and overtaking. Road body - shapes and proportions, bottom and superstructure. Drainage and components of roads. Safety	device. Crossings	s, junctions,	
400004/	intersections.  Urban Road Traffic and Design	Z,ZK	_	
12PRMK	an road, elements and routes for traffic, pedestrian and cycling transport, projection of intersections, traffic lights and its traffic safety pi		5 uts calming	
Composition of dib	of traffic, precaution for blind & partially-sighted, parking, traffic area, induction of traffic, organization and regulation of traffic	-	its, callfilling	
12PUSS	Organization Disposition of Railway Stations	KZ	3	
	on. Passenger transport equipment. Freight transport equipment. Branch lines and railway traffic inside industrial company areas. Zon			
Reser	ve stations. Technology of work in railway station with regard to its disposition. Railway station documentations in the Czech Republic	railway network.		
12SDK	Highways, Motorways and Intersections	Z,ZK	4	
	ays network, transport output. Types of direction curves. Hairpin bend. Stopping sight distance and overtaking sight distance. Levels of ti	_		
of crossroads and	d intersections. Crossroads. Roundabouts. Intersections. Special types of junctions. Capacity of crossroads and intersections. Structure	e of pavement of re	oads and	
40\/LID	motorways. Road engineering structures. Assessment of route alternatives.	7.71/		
12VHD	Public Transport  blic transport, transport research, evaluation, planning of lines routes and territory operation, planning of operation parameters, prepa	Z,ZK	5	
	tion-technology and operation-economically conditions of planning of operation conceptions, planning of operation conception, planning of operation conception, planning of operation conception, planning of operation conception, planning of operation conceptions, planning of operation conception, planning of operation conceptions, planning of operations, planning operation conceptions, planning oper			
	prepare of infrastrukture (route, stops), preference of public transport, financing.	,		
12X31D	Project 1 DOS	Z	2	
12X32D	Project 2 DOS	Z	2	
12X33D	Project 3 DOS	Z	4	
12Y1AE	Applied Ecology	KZ	2	
	ecological concepts and principles, ecosystem, ecological factors, energy flow through the ecosystem. Application of knowledge within			
ecology. Landsc	ape ecology - origin and historical development. Landscape definition and classification. Success. Traffic constructions in the countrys	ide. Landscape an	d nature	
	protection. Applied ecology.			
12Y1C1	Designing Roads in Civil 3D I	KZ	2	
	voted to the traffic buildings design field, specifically the design of roads as such, by the means of a 3D software. Students go through uilding, from the initial situation, over the longitudinal section, to the model and work sections and the cubic capacity calculation. The	•	٠ .	
particular linear b	explanation of the traffic building design in the real-life profession.	course also include	23 a basic	
12Y1C2	Designing Roads in Civil 3D II	KZ	2	
	voted to the traffic buildings design field, specifically the design of roads as such, by the means of a 3D software. Students go through			
particular linear b	uilding, from the initial situation, over the longitudinal section, to the model and work sections and the cubic capacity calculation. The	oreviously acquired	l skills are	
	improved and developed. Students learn to design intersections.			
12Y1DS	Project Documentation in Practice	KZ	2	
Project document	ation creating. Project documentation types. Support materials for project documentation creating. Building permit obtaining process.	Budget and pricing	. Practical	
10V1UD	creation of some project documentation parts.	V7		
12Y1HD Acoustic introduction	Traffic Noise  on, basic terms, quantities. Basics of physiological acoustic, noise impacts on human body. Acoustic legislation, standarts, regulation:	KZ Creation acquistic	2 c climate in	
	of urban acoustic, noise transmission, soundproofing. Types of noise sources in area. Determination of acoustic situation in the area			
	computing and measurement of transport noise. Acoustic studies, measuring protocol.		0,	
12Y1KN	Combined Transportation	KZ	2	
Combined transp	ort strategy and legislation. Load units. Means of transport in combined transport. Combined transport systems. Transshipping areas.	Multimodal logistic	centres.	
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			
networks and bey	ond. Communication strategy of transport projects. Systematic goodwill building. Crisis situations in communication and preparation f	or crisis communic	ation. The	
12V1DC	influence of political marketing and political PR on transport projects. Lobbing.	V7		
12Y1PC Routes for pedestri	Pedestrian and Cycling Transport   ans. Pedestrian crossings. Modifications for blind, dim-sighted and disabled people. Design of cycle routes network. Ways of cycle route	KZ	2 parameters	
•	ation of cyclists from other transport modes. Cycle tracks and its design - one way streets, reserved traffic lanes, bus stops, crossings			
1,	crossroads. Traffic signs and road marking for cyclists.		-,	
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		on yards.	
	rve stations. Technology of work in railway station with regard to its disposition. Railway station documentations in the Czech Republic	railway network.		
12Y1RU	<b>_</b>			
	Railway Lines Reconstruction	KZ	2	
	Railway Lines Reconstruction  ne operational, maintaining lines and stations, geometrical alignment of railway line, vehicles for railway superstructure and substructure and organising possesions, preparation of railway lines reconstruction and maintenance, process of railway line reconstruction.	ure maintenance, s		

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 developr		
medium and long-t	erm strategy of the Ministry of Transport. Maintenance of roads winter and summer, its requirements, specifics, possibilities and repair classroom as well as investment activity in highway engineering.	methods are disci	ussea in the
12Y1VR	Public Transport in Cities and Regions	KZ	2
	political pillars of public transport. Accessibility of public transport. Transport demand management and directional coordination of line		
	arameters and transport variations. Types of lines according to their routing and basic operating parameters. Time coordination of line		
	Organization of tram operation in Prague. Tram safety.		
12Y1ZU	Principles of Urbanism of city and settlement building. Functional components and their mutual relations (working, living, recreation, transportation). Spacial	KZ	2
Survey on history	Types of towns or cities with a certain prevailing function, forms of their development. Brief overview of land-use planning.	arrangement or se	emements.
12ZAR	Introduction to Architectural Design	Z	3
	d architecture of traffic systems. Bus and trolley-bus transport. Tramway and town tracks. Design of vehicles. Subway. Railway transpor	t. Railway stations	_
	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 traffic brakes. Railway vehicles marking. Operation intervals. Theoretical graph of train running.	operation. Railwa	ay vehicles
12ZTS	Railway Lines and Stations	Z,ZK	4
	ailway track geometry parameters. Route layout of railway lines. Railway line construction - railway substructure and superstructure. S	· '	1
•	Railway control systems in relation to infrastructure. Operating and carriage points. Railway lines net and category. Traction in rail tr		•
12ZYDI	Introduction to Transportation Engineering	Z,ZK	2
Role of transportati	ion in land-use planning. Basic terms in transportation engineering. Traffic survey and traffic prognosis. Introduction to topic of roads, prognosis and traffic prognosis.	ublic mass transpo	ort. Negative
44400	impacts of transportation to environment and safety.	1/7	
14ASD Students will analy	Algorithm and Data Structures   ze problems, design a theoretical solution to a given problem and write the resulting algorithm using flowcharts, practice reading algori	KZ	l 3
-	lean algebra to construct constraints in algorithms. Students will be introduced to the basics of the Python programming language - va	_	=
	will learn to work with variables of basic data types (integer, floating point and string) and the list data structure in their program	-	
14DATS	Database Systems	KZ	2
Basic concepts of	of database systems, conceptual model, relational data model, the principles of normal forms, relational database design, security and		database
44001/	queries, relational algebra, SQL language, client / server, multilayer architectures, distributed database systems. Access to data via t		
14DPK	Digital Support for Designing of Roads and Highways  Seminars possibilities of technical processing problems focused on designing of roads and highways.	Z	0
14DZT	Digital Support for Railway Lines	Z	0
11021	Seminars possibilities of technical processing problems solved in the field of railway lines.	- 1	
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 world		
and CA systems.	Co-ordinated systems, CAD environment skill (basics of constructing, dimensioning, modifications, user interfaces, projecting possible described described and appears)	lites, AutoCAD en	vironment
14PODP	profiles, drawings with raster foundaments).	KZ	3
-	Computer Aid of Transportation Projecting 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		
	section). Basics of 3D modelling.		
14PRG	Programming	KZ	2
_	ramming builds on and fully extends the course 14ASD (Algorithmization and Data Structures). The knowledge of the Python program		-
nere so that the pa	rticipant gains skills and can apply them to solve various follow-up tasks. Main topics: lists, multidimensional arrays, sorting and searcl working with date and time, regular expressions, functions and procedures, working with files (CSV, JSON, XML).	ning, tupies, sets, o	dictionaries,
14X31D	Project 1 DOS	Z	2
14X32D	Project 2 DOS	Z	2
14X33D	Project 3 DOS	 Z	4
14Y1AV	Animation and Visualization	KZ	2
	itions and modeling of NURBS, Patch objects, selection of objects (according to filter and properties). 3D Studio MAX systems and Spa		I
	s, rendering filters, Motion blur, advanced animations, Motion panel. Modeling for morphing and animation, bone formation, animation	using Inverse Kin	nematics.
14Y1BE	Barrierless Transport	KZ	2
	rless accessible public transportation in terms of architectural barriers and also for transportation-technological point of view. Students v	-	_
or partieriess enviro	onment roads, railway stations, public transport stops, terminal buildings, vehicles, public transport, information and orientation systems  Theoretical knowledge will be supplemented by practical examples.	and transportation	rtechnology.
14Y1BM	Biometric Methods	KZ	2
	rms, authentication methods, principles and performance measurement of biometric systems, overview of biometric technologies, ha		1
retina recognition r	nethod, 2D and 3D face recognition, vein patterns on the wrist, ear biometrics, fingerprint recognition, skin spectroscopy, behavioral n	nethods, the use o	of biometrics
4 45 741 ****	in transport applications, sofaty and risks of hismatric technologies		
	in transport applications, safety and risks of biometric technologies.		_
14Y1HW	Computer Hardware	KZ	2
	Computer Hardware ecture, basics of logical circuits design and their realization using FPGA. In detail, description of computer architecture and separate p		1
Computer archite	Computer Hardware ecture, basics of logical circuits design and their realization using FPGA. In detail, description of computer architecture and separate parithmetic and logical units, I/O subsystem.	parts designing - co	ontrollers,
Computer archite	Computer Hardware ecture, basics of logical circuits design and their realization using FPGA. In detail, description of computer architecture and separate parithmetic and logical units, I/O subsystem.  Modeling Complex Assemblies and Models in Parametric Modeller	parts designing - co	ontrollers,
Computer archite	Computer Hardware ecture, basics of logical circuits design and their realization using FPGA. In detail, description of computer architecture and separate parithmetic and logical units, I/O subsystem.	parts designing - co	ontrollers,
Computer archite	Computer Hardware ecture, basics of logical circuits design and their realization using FPGA. In detail, description of computer architecture and separate parithmetic and logical units, I/O subsystem.  Modeling Complex Assemblies and Models in Parametric Modeller gramming - tools and methodology of working subassemblies and assemblies, sheet metal parts modelling, welded assemblies, pipel	parts designing - co	ontrollers,
14Y1MP Assemblies pro-	Computer Hardware ecture, basics of logical circuits design and their realization using FPGA. In detail, description of computer architecture and separate parithmetic and logical units, I/O subsystem.  Modeling Complex Assemblies and Models in Parametric Modeller gramming - tools and methodology of working subassemblies and assemblies, sheet metal parts modelling, welded assemblies, pipel Photorealistic output rendering - physical and material properties, lighting sources. MKP - visual example.	KZ ines, and distributi  KZ sic object methods	ontrollers,  2 ion lines.  2 s. Reference

14Y1OP	Operating System	KZ	2
Distributions. Ins	tallation GNU/Linux OS. X-window system. Rights management - users and groups, ACL rights. Filesystems and attributes. Program	s and processess. (	OS boot,
runlevels. Basic o	console programs / commands. Config files. SW management, package systems. Programs in graphic shell - text, spreadsheet, graph	nic editors, sound, v	/ideo and
	communication. Services management. Safe and secure configuration of OS. Remote administration.		
14Y1P2	Computer Aid of Transportation Projecting 2	KZ	2
	oplication for transportation projecting aid. AutoCAD environment possibilities of basic tasks automatizing (programming, scripting, dat		
	utes, relation to databases). Work in projecting group, external references. Basic tasks for cummunication projecting (clotoidic transition		
modification (attribu	section). Basics of 3D modelling.	i cui ve, cioss-and i	iorigitudiriai
4.074.54	<u> </u>	1/7	
14Y1PA	3D Modeling in AutoCAD	KZ	2
Work in 3D non-p	arametric modeller (AutoCAD) environment, scenes rendering, creation of planar and volumetric objects, user setup creation, object	data creation, work	with data
	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 editi	ng programs (withir	n the user
	level scope) using layers, DPI, colors. Basics of digital photography, scanning and computer technology like monitors and graphic		
14Y1PI	Corporate Information System	KZ	2
	•		
	n-knowledge, components of information system, syntatic and semantic sense of data, structure of corporate information system, pa		
(personalistic, prod	uction, storage, etc.), corporate information politic and information control, risks of information system operation, legal environment of	information system	n operation,
	state information system, information system security, data protection, safety politics.		
14Y1PJ	C Programming Language	KZ	2
C programming lan	guage. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation, strir	ng, files, structures a	and unions.
	Implementations of abstract data types (FIFO, LIFO, list), programming techniques (sorting, searching, recursion), using bitwise of	orerators.	
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 formu		
			- 1
auuressing, enor d	etection. Working with large spreadsheets, filters, advanced filters, database functions. Pivot tables and charts, conditional formatting, s	oranon minumg, solv	ei, iiidulus,
	data analysis. Examples and questions from various companies and training.		
14Y1TI	Creating Interactive Internet Applications	KZ	2
Possibilities of scrip	ting language PHP. Overview of PHP language syntax, and functions. Analysis of finished scripts and demonstration of solutions. You	r own application pr	rogrammed
	in PHP language.		
14Y1UP	Editing of Theses in MS Word	KZ	2
	introduced to the principles of creating and editing large documents and basic typographic rules. They will properly apply styles, crea		_
	ohs, etc. Footnotes, captions, index. They practice corrections of finished documents. The goal is to prepare students for seamless ec		
nguroo, tabloo, gra	so that they are able to concentrate mainly on writing a thesis.	iting diocortations t	and thoods,
4.4\/4\/\/\		1/7	
14Y1VM	Development of Applications for Mobile Devices	KZ	2
Object oriented p	programming, Java programming language, development environment, operating system Android, development application - widgets	, containers, thread	s, menu,
	permissions, services, GUI.		
14Y1W1	Webdesign 1	KZ	2
Students will learn	the basics of communication HTTP, URL and addressing, markup languages HTML and XHTML, HTML tags, rules of web accessibility	y and usability, CSS	S properties
and selectors	, the issue of web browsers, creating one to three column layout pages, sites validation, conditional comments. Topics will be practice	ed on practical exan	nples.
14Y1W2	Webdesign 2	KZ	2
	advanced techniques CSS, responsive webdesign, CSS frontends, content management systems, JavaScript, jQuery, SEO, web ser	1	
Students will learn		vei ilistaliation + cc	Jiliguration
	directives. Topics will be practiced on practical examples.		
14Y1WG	Webdesign	KZ	2
Students will lear	n the basics of HTTP communication, URL and addressing, HTML5 markup language, advanced CSS3 techniques, accessible and u	ısable web rules, re	esponsive
	webdesign, content management systems, web server installation + configuration directives. The subject matter will be trained on e	xamples.	
14Y1ZJ	Fundamentals of programming in JAVA	KZ	2
	Java SE Platform. IDE Installation and First Project. Comments. Variables and Type System. Operators. User Input and Parsing, Cha		
Chain and Mathe	ematical Methods. Terms. Relational Operators and Switches. Cycles for, while, foreach. Field - declaration, initialization, methods for	field work, ASCII, F	unctions.
	parameters, return value, recursion. Program creation.		,
4 41/4 71 4		1/7	
14Y1ZM	Fundamentals of parametric and adaptive modeling	KZ	2
Dasics of work at p	roducts and parts creation. Sketch drawing by help of geometric relations, parametric dimensions, creation of adaptive models from 2	∪ sketches. Import	and export
	from and to another systems. Fundamentals of assemblies creation.	· · · · · · · · · · · · · · · · · · ·	
14ZDA	Data Processing	Z	3
Introduction to data	processing and analysis tools. Practical part of the training - introduction to the working environment, applied examples of data processing and analysis tools.	ssing from practice	, advanced
metho	ods of presentation of the results. Seminar papers on open data. Consultation hours for seminar papers. Seminar paper submission a	and presentation.	
15DPLG	Transportation Psychology	Z	2
	gy and its basic concepts. Information intake, decision-making and behaviour. Performance. Engineering psychology and vehicle const	ruction Psychologi	
	el route and traffic conditions, accidents and traffic incidents. Selection and training of the staff. Work and leisure. Age as a factor in traffic		
			2
15JZ1A	Foreign Language - English 1	Z	3
Grammatical Struct	ures and Style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and co		⊏iementary
	stylistics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles		
15JZ2A	Foreign Language - English 2	Z,ZK	3
Grammatical struct	ures and style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and co	mmunicative skills. I	Elementary
	stylistics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles of	of rhetoric.	
15JZ3F	Foreign Language - French 3	Z	3
	istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		_
-	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v		- 1
and perceptive dir		THE (PROTESSIONAL) L	on and its
45 1301	features. Practice of oral and written presentation.		
15JZ3I	Foreign Language - Italian 3	Z	3
·=	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language level and study focus at the Faculty.		- 1
and perceptive an	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work	with (professional) t	text and its
	features. Practice of oral and written presentation.		

15JZ3N Grammar and styli	Foreign Longuege Courses 2	7	
Giaiiiiiai and Siyii	Foreign Language - German 3	Z	3
-	sites. Selection of conversation and professional topics based on the language level and study locus at the Faculty. Improvement of lat I communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w		_
ana porooparo am	features. Practice of oral and written presentation.	(р. с. ссе с. а)	torit arra ne
15JZ3R	Foreign Language - Russian 3	Z	3
	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		_
-	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w		_
	features. Practice of oral and written presentation.		
15JZ3S	Foreign Language - Spanish 3	Z	3
-	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		_
and perceptive and	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w	ith (professional)	text and its
451745	features. Practice of oral and written presentation.	7 71	
15JZ4F	Foreign Language - French 4	Z,ZK	3
-	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la I communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w		_
and perceptive and	features. Practice of oral and written presentation.	itii (prolessioriai)	text and its
15JZ4I	Foreign Language - Italian 4	Z.ZK	3
	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la	,	
-	I communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w		_
	features. Practice of oral and written presentation.	,	
15JZ4N	Foreign Language - German 4	Z,ZK	3
Grammar and styli	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la	nguage structure	knowledge
nd perceptive and	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w	ith (professional)	text and its
	features. Practice of oral and written presentation.		
15JZ4R	Foreign Language - Russian 4	Z,ZK	3
-	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		_
and perceptive and	d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w	ith (professional)	text and its
45.17.40	features. Practice of oral and written presentation.	7.71	
15JZ4S	Foreign Language - Spanish 4	Z,ZK	3
-	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la I communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w		_
ind perceptive and	features. Practice of oral and written presentation.	itii (proiessionai)	text and it
15X31D	Project 1 DOS	Z	2
15X31D	Project 2 DOS	Z	2
	Project 3 DOS	Z	-
15X33D	•		4
15Y1BO	Work Safety and Health Protection in Transportation   lative, definition of terms, risks and possible health damage, working conditions and health protection with focus on transportation. He	KZ	2
andamentar legis	health insurance of home and foreign business trips, statistics, working practice.	aiii protection pi	ogrammos
15Y1DZ	History of Railway	KZ	2
	rays, steam railways, railway network development in the 2nd half of 19th century, regional railways epoch, railways of the "First Repul		tion, World
Var II railways, railv	vay development in the 2nd half of 20th century, high-speed railway origins, railway lines closing, important long-distance train connection		construction
		ns, railway lines o	JOI ISTI GOTIOI
	railway accidents, railway junctions. Excursions and projections.	ns, railway lines o	JOHSTI GOTIO
15Y1EH	railway accidents, railway junctions. Excursions and projections.  European Integration within Historical Context	ns, railway lines o	2
/ersailles system,	European Integration within Historical Context formation of new states. Europe and the powers, League of Nations. European policy in the 1920s. Fascism, nacism, communism. Litt	KZ le Entente, its pr	2 inciples and
ersailles system, '	European Integration within Historical Context formation of new states. Europe and the powers, League of Nations. European policy in the 1920s. Fascism, nacism, communism. Litter Hitler's getting to power, system of bilateral agreements. Decline of the LN. Rearrangement of powers during WWII. Cold war and its	KZ le Entente, its pr	2 inciples and
ersailles system, goals. Europe afte	European Integration within Historical Context formation of new states. Europe and the powers, League of Nations. European policy in the 1920s. Fascism, nacism, communism. Litter Hitler's getting to power, system of bilateral agreements. Decline of the LN. Rearrangement of powers during WWII. Cold war and its New quality of French-German relationship - a driving power of starting European integration.	KZ le Entente, its pr consequences t	2 inciples and for Europe.
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/ersailles system, goals. Europe afte  15Y1FD France - geograp Free  15Y1HD distory of city mass cleara  15Y1HE Basic knowledge creation and prote  15Y1HL deginnings of flying World airports. Fa  15Y1MK  15Y1NE Recent economic	European Integration within Historical Context formation of new states. Europe and the powers, League of Nations. European policy in the 1920s. Fascism, nacism, communism. Litt or Hitler's getting to power, system of bilateral agreements. Decline of the LN. Rearrangement of powers during WWII. Cold war and its New quality of French-German relationship - a driving power of starting European integration.  French Area Studies and Transportation hy and regions, transport infrastructure. Paris and its sights, city public transport. Road traffic, motorways, railway traffic, TGV, air traffich society and culture. Current political system. System of education, studying in France. Selected authors of French literature. French History of City Mass Transport is transport in the world, development of tram, bus and trolley-bus systems. History of transport networks in the world, current trends at note systems. History of city transport in Prague and Brno. History of tram, bus and trolley-bus operation systems in the Czech Republ Work Hygiene and Ergonomics in Traffic of occupational hygiene and ergonomics, and their application in transport. Working environment factors, and the influence of these faction of working conditions that do not damage public health. Mutual links: man-machine-environment. Adaptation of technology to post practical examples from the field of transportation; relevant legislature.  History of Civil Aviation  Indicate than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of aircrafts in Czechoslovak aviation pioneers. D	KZ le Entente, its prospective consequences of KZ ic, specialised tenter gastronomy. KZ and developments ic and Slovakia. KZ actors on health of assibilities and ski  KZ reports in the Czer aviation. Golden  KZ KZ allysis of texts. Dis	2 inciples and for Europe.  2 rminology.  2 of tariff and 2 of workers.  Ils of a man  2 ch Republicera of civil  2 scussion on
/ersailles system, goals. Europe afte  15Y1FD France - geograp Free  15Y1HD distory of city mass cleara  15Y1HE Basic knowledge creation and prote  15Y1HL deginnings of flying World airports. Fa  15Y1NE Recent economic	European Integration within Historical Context formation of new states. Europe and the powers, League of Nations. European policy in the 1920s. Fascism, nacism, communism. Litt in Hitler's getting to power, system of bilateral agreements. Decline of the LN. Rearrangement of powers during WWII. Cold war and its New quality of French-German relationship - a driving power of starting European integration.  French Area Studies and Transportation hy and regions, transport infrastructure. Paris and its sights, city public transport. Road traffic, motorways, railway traffic, TGV, air traffich society and culture. Current political system. System of education, studying in France. Selected authors of French literature. French History of City Mass Transport thistory of City Mass Transport thistory of city transport in the world, development of tram, bus and trolley-bus systems. History of transport networks in the world, current trends and note systems. History of city transport in Prague and Brno. History of tram, bus and trolley-bus operation systems in the Czech Republication of working conditions that do not damage public health. Mutual links: man-machine-environment. Adaptation of technology to posterior of working conditions that do not damage public health. Mutual links: man-machine-environment. Adaptation of technology to posterior of working conditions that do not damage public health. Mutual links: man-machine-environment. Adaptation of technology to posterior of working conditions that do not damage public health. Mutual links: man-machine-environment. Adaptation of technology to posterior of working conditions that do not damage public health with a field of transport. Working environment legislature.  History of Civil Aviation  German in the Eucohostovakia between the years 1945-1989. Classic era of aviation. Modern era of civil aviation. Airline companies. Supersonic flying.  Modern History in Context: Every Day Life and Transport  Historical overview of modern history of every day life, science, technology	KZ le Entente, its prospective consequences of KZ ic, specialised tenter gastronomy. KZ and developments ic and Slovakia. KZ actors on health of assibilities and skin KZ reports in the Czercaviation. Golden KZ	2 inciples and for Europe.  2 rminology.  2 of tariff an  2 of workers. Ils of a mar  2 ch Republic era of civil  2 scussion on
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16DOKY Technical nome	Vehicle Technology enclature in transportation technology. Vehicle in legislation. Design. Operation. Influence on environment. Vehicle and ecology. Tractic	Z,ZK on engine characte	5 eristics -
	combustion engines, electric engines, change of energy principles. Powertrain construction. Power transmission. Brake system	-	
16DYJV	Vehicle Dynamics	Z,ZK	5
Application of mech	nanics. Wheel and axle suspension mechanism. Wheel to road positioning characteristics. Wheel - road contact. Skid and its characte	ristics. Longitudina	al dynamics,
acceleration and de	celeration. Vertical dynamics, spring suspension, driving characteristics. Directional dynamics, gyroscopical characteristics. Driving sta	bility 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	Z	2
Vehicles and transp	portation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water	transport. Alterna	tive means
	of transport. Lifting equipment and conveyors. Legislation.	·	
16X31D	Project 1 DOS	Z	2
16X32D	Project 2 DOS	Z	2
	·	Z	
16X33D	Project 3 DOS		4
16Y1EN	Energy Requirements of Vehicles	KZ	2
Dynamics and the	driving inertial of the vehicles. Types of energy - kinetic, static, heat, chemical and others. Ways of energy change into kinetic energy.	_	ne, electric
	drive, steam engine, air engine. Energy accumulation means, accumulator, flywheel, fuel cell. Energy recuperation. WTW analy		
16Y1IS	Interactive simulators and simulations	KZ	2
	y and application of computing equipment. Creating computing models. Mechanical and dynamic systems and their mathematical mo		methods.
Simul	ation of vehicle dynamics, on-land carriage in particular. Virtual reality systems. Practical exercise with simulation software and intera	ctive simulators.	
16Y1KS	Quality and Reliability of Vehicles	KZ	2
Quality and reliab	ility theory in design, development, production and operation of vehicles. Definition and possible approach to quality and reliability. Ke	ey legislation. FME	A (Failure
Mode and Effects	Analysis), QFD (Quality Function Deployment), DFx (Design for Assamly, Manufacturying, Quality, Services) and other methods us	sed in industrial ap	pplications.
	Knowledge-based systems of quality and reliability, data collection.		
16Y1PV	Operation, Construction and Maintenance of Vehicles	KZ	2
- 1	production. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measureme		
	General principles of engine diagnostics.		
16Y1RE	Control and Electronic Vehicle Systems	KZ	2
ı	ts of regulation. Tools for analytical solution, linear system description. Basic types of a regulator (PID), properties, advantages, disadva		
	control. Electric drive. Vehicle communication bus (CAN, LIN, FlexRay, ISObus, KWP2000 protocole etc.). Vehicle electronic control,	-	
and hybrid drive	comfort systems.	saicty, communic	ation and
16Y1SO	Strategy and innovation in mobility	KZ	2
	ovation, definition. Innovation strategy. Innovation life cycle and ecosystem, main sources and funding opportunities. Successful inno		
	ation. Sprint method and its use. Innovative business model - main patterns and examples, design, strategy, processes and outlook (b		- 1
co-illialicing, evalue	of use). Creating an innovation strategy. Customer and value map, design, and testing.	Justiless plan and	possibilities
16Y1VT		KZ	2
	Development in Railroad Vehicles traction. Railroad vehicle parametres regulation. Control and driving of railroad vehicles. Importance in heavy duty and personal tran		
Railloau veriicies	assesment. New materials in design. International standardization.	sportation. Critical	Situation
40)/470		1/7	
16Y1ZG	Introduction into Applied Computer Graphics	KZ	2
	s, division and applications with emphasis on transport, including development and research. Colours, colour perception, colour scher		
and 3D generation	on, elementary algorithms for graphic data workout. Visualisation principles and tasks, technics, graphics and visualisation HW basics	s. Introduction to 2	D and 3D
	graphics software.		
16Y1ZL	Vehicle Testing, Legislation and Construction	KZ	2
	otorbike costruction, aggregate computing, driving resistance, build and parameters of traction, constructional arrangement of personal control to the costruction of traction of traction of the costruction of traction of t		motorbikes,
	slation in the EU and in the world, technical legislation creation, testing methods, vehicle tests, accelerated tests, mathematical mode	lling in testing.	
17FID	Financing and Investment in Transport	Z,ZK	4
Sources of financin	g of transport infrastructure, the role of public administration in the financing and realization of investment in transport, the investment	project project cy	cle, subsidy
	orograms and their rules, competition, effectiveness and efficiency of spending public funds, evaluation systems of public projects and	l programs.	
17TEDL	Transport Technology and Logistics	KZ	3
Basic terms in trans	sport technology and logistics, particular steps of transport planning, line planning, timetabling, planning in pasanger and freight trans	sport, organisation	of traffic in
each transport mo			ort modus.
	odus, technologic factors of the side of operator and client, organisation of city transport, logistic technologies and their aplication using	ng various transpo	
17X31D	odus, technologic factors of the side of operator and client, organisation of city transport, logistic technologies and their aplication usi		2
17X31D 17X32D	odus, technologic factors of the side of operator and client, organisation of city transport, logistic technologies and their aplication using Project 1 DOS	Z	2
17X32D	odus, technologic factors of the side of operator and client, organisation of city transport, logistic technologies and their aplication using Project 1 DOS  Project 21 DOS	Z Z	2
17X32D 17X33D	odus, technologic factors of the side of operator and client, organisation of city transport, logistic technologies and their aplication using Project 1 DOS  Project 21 DOS  Project 3 DOS	Z Z Z	2 4
17X32D 17X33D 17Y1LL	odus, technologic factors of the side of operator and client, organisation of city transport, logistic technologies and their aplication using Project 1 DOS Project 21 DOS Project 3 DOS Logistics of Passenger and Freight Air Transport	Z Z Z KZ	2 4 2
17X32D 17X33D 17Y1LL	Project 1 DOS Project 21 DOS Project 3 DOS Project 3 DOS Logistics of Passenger and Freight Air Transport ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transport	Z Z Z KZ	2 4 2
17X32D 17X33D 17Y1LL Logistics airline pas	Project 1 DOS Project 21 DOS Project 3 DOS Project 3 DOS Logistics of Passenger and Freight Air Transport ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Global distribution systems.	Z Z Z KZ sport process pass	2 4 2 sengers and
17X32D 17X33D 17Y1LL Logistics airline pas	Project 1 DOS Project 21 DOS Project 3 DOS  Logistics of Passenger and Freight Air Transport  ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Global distribution systems.  Marketing in Transportation	Z Z Z KZ sport process pass	2 4 2 sengers and
17X32D 17X33D 17Y1LL Logistics airline pas	Project 1 DOS Project 21 DOS Project 3 DOS  Logistics of Passenger and Freight Air Transport ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Global distribution systems.  Marketing in Transport as a service, specifics of public passenger transport as a service, specific as a service a	Z Z Z KZ sport process pass	2 4 2 sengers and
17X32D 17X33D 17Y1LL Logistics airline pas	Project 1 DOS Project 21 DOS Project 3 DOS  Logistics of Passenger and Freight Air Transport  ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Global distribution systems.  Marketing in Transportation	Z Z Z KZ sport process pass	2 4 2 sengers and
17X32D 17X33D 17Y1LL Logistics airline pas	Project 1 DOS Project 21 DOS Project 3 DOS  Logistics of Passenger and Freight Air Transport ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Global distribution systems.  Marketing in Transport as a service, specifics of public passenger transport as a service, specific as a service a	Z Z Z KZ sport process pass	2 4 2 sengers and
17X32D 17X33D 17Y1LL Logistics airline pas 17Y1MD General principles	Project 1 DOS Project 21 DOS Project 3 DOS  Logistics of Passenger and Freight Air Transport ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transair cargo. Information systems in air transport at transport and papelied to transport issues, marketing tools suitable for transport as a service, specifics of public passenger transport at the application of marketing.	Z Z Z KZ sport process pass KZ and the resulting dif	2 4 2 sengers and 2 ferences in
17X32D 17X33D 17Y1LL Logistics airline pas 17Y1MD General principles 17Y1OF Personal finance (	Project 1 DOS Project 21 DOS Project 3 DOS  Logistics of Passenger and Freight Air Transport ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Global distribution systems.  Marketing in Transportation of marketing applied to transport issues, marketing tools suitable for transport as a service, specifics of public passenger transport at the application of marketing.  Personal Finance	Z Z Z KZ sport process pass KZ and the resulting dif KZ ing (rent, mortgag	2 4 2 sengers and 2 ferences in 2 e, savings,
17X32D 17X33D 17Y1LL Logistics airline pas 17Y1MD General principles 17Y1OF Personal finance (	Project 1 DOS Project 21 DOS Project 3 DOS  Logistics of Passenger and Freight Air Transport ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transair cargo. Information systems in air transport all distribution systems.  Marketing in Transportation of marketing applied to transport issues, marketing tools suitable for transport as a service, specifics of public passenger transport at the application of marketing.  Personal Finance budget, financing of basic living needs), debt (loans and credits, payment instruments, interest and fees, debt trap), financing of house	Z Z Z KZ sport process pass KZ and the resulting dif KZ ing (rent, mortgag	2 4 2 sengers and 2 ferences in 2 e, savings,
17X32D 17X33D 17Y1LL Logistics airline pas 17Y1MD General principles 17Y1OF Personal finance (	Project 1 DOS Project 21 DOS Project 3 DOS  Logistics of Passenger and Freight Air Transport ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transaric cargo. Information systems in air transport as a service, specifics of public passenger transport at the application of marketing applied to transport issues, marketing tools suitable for transport as a service, specifics of public passenger transport at the application of marketing.  Personal Finance budget, financing of basic living needs), debt (loans and credits, payment instruments, interest and fees, debt trap), financing of hous financing), savings and investments (investment horizon, return, risk, investment strategy), insurance (insurance types, suitability and a (retirement savings and insurance).	Z Z Z KZ sport process pass KZ and the resulting dif KZ ing (rent, mortgag	2 4 2 sengers and 2 ferences in 2 e, savings, ing the future
17X32D 17X33D 17Y1LL Logistics airline pas 17Y1MD General principles 17Y1OF Personal finance (iconsumer loans, ref	Project 1 DOS Project 21 DOS Project 3 DOS  Logistics of Passenger and Freight Air Transport ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transair cargo. Information systems in air transport as a service, specifics of public passenger transport at the application of marketing.  Personal Finance budget, financing of basic living needs), debt (loans and credits, payment instruments, interest and fees, debt trap), financing of hous financing), savings and investments (investment horizon, return, risk, investment strategy), insurance (insurance types, suitability and a	Z Z Z KZ sport process pass KZ and the resulting diff KZ ing (rent, mortgag adequacy), securin	2 4 2 sengers and 2 riferences in 2 e, savings, ig the future 2

17Y1SK	Urban and Regional Rail Transport Systems	KZ	2
_	g transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, li	_	-
evaluation of th	e timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transp marketing.	ort preferences. I	ne role of
17Y1SL	Sociology of Human Resources	KZ	2
Human resources	and their importance, work group as a special kind of social group, communication, personal management, modern management, hum	nan resources plar	nning, culture
47V4CT	of the organization.		1 2
17Y1ST	Titan Simulation gement game simulating the business decisions. Lets 2-8 student groups to produce and compete in the market with the same produ	KZ	price and
	intity and capacity of production, plan budgets for marketing, research and development. They become familiar with the consequence of financial corporate reports and they use this information for other business decisions.		
18DYKS	Dynamics of Structures and Systems	Z,ZK	3
	ms with multiple degrees of freedom. Natural modes and natural frequencies. Method of stiffness constants, method of elastic consta		-
· · · · · · · · · · · · · · · · · · ·	inuously distributed mass. Matrix form of equations of vibration. Finite element method in dynamics of structures. Solving vibrations by		
	Subspace iteration methods. Introduction to nonlinear vibrations.		
18KIDY	Kinematics and Dynamics	Z,ZK	4
	ong a line and a curve. Kinematics of rigid body. Kinematics of the point mass and the system of mass points. Dynamics of a mass point	=	
equation of moti	on. Method of Newton. D'Alembert principle. Free and forced vibration with one degree of freedom. Viscous damping. Impact theory. I vibration with two degrees of freedom.	ntroduction to the	solution of
18MECK	Mechanics of Constructions	KZ	3
_	of elastic beam. Solution of statically indeterminate systems - force and deformation method. Stiffness and compliance matrix of a sy		ence method.
	story and fundamentals of structural design. Characteristics of steel, design of steel structures. Introduction to mathematical theory of		T
18MTY	Materials Science and Engineering	Z,ZK	3
	aterials science and engineering explains mechanical properties of structural materials based on their bonding forces and microstructu Is the most important engineering materials, also other major classes of materials are presented, namely ceramics, polymers and cor		
is paid to metals a	to degradation processes in materials, to defectoscopy and to main mechanical tests.	riposites. Attention	ii is also palu
18NUMM	Numerical Methods in Mechanics	KZ	3
	ost used numerical methods in structural mechanics. Central difference method, finite element method, boundary element method. Ti	I	_
schemes. Finite e	element method - derivation of the basic equations. Stiffness matrix, mass matrix, damping matrix at element level and structural level	. Methods for solv	ing systems
	of algebraic equations. Numerical integration.		_
18PZP	Elasticity and Strength	Z,ZK	3
Tension and comp	ression. Bending of beam. Shear stress in bending of beam. Design and analysis of cross section of beam. Design of riveted, bolted a	and welded joints	of structures.
40CAT	Analysis of deflection curve of beams. Torsion of circular cross sections. Combined loading. Stability.	7 71/	1 4
18SAT	Structural Analysis of forces in plane and space. Calculation of reactions of bodies and structures. Assessment of internal forces on statically determinal	Z,ZK	4
	work. Kinematic method for calculation of reactions of statically determinate systems. Determination of axial forces in truss constructions.		
·	of planar shapes. Fiber polygons and chains.		
18SPP	Seminary from Elasticity and Strength	Z	0
Excersise for prac	tice. Tension and compression. Bending of beam. Shear stress during bending of beam. Design and analysis of cross section of bear	n. Analysis of defl	lection curve
4000	of beam. Torsion of circle cross section. Combined loading. Stability of compressed bar and buckling.		
18SS	Seminary from Structural Analysis	Z	0
	tise. General system of forces. Reactions of mass objects and compound systems. Internal forces on statically determinate beam and ual works for calculation of reactions of staticaly determinate systems. Determination of axial forces in truss construction - method of	-	
or principle of virt	Geometry of cross sections. Plane fiber polygons.	jointo ana momoa	. 01 000110110.
18STD	Seminary from Technical Documentation	Z	0
	ards, international standardization, technical drawings, representation of technical objects, technical diagrams and charts, dimension	al and geometrica	l accuracy,
	arrangement of drawing sheets.		
18TED	Technical Documentation	KZ	2
Technical standa	ards, international standardization, technical drawings, representation of technical objects, technical diagrams and charts, dimension	al and geometrica	l accuracy,
401/0:5	arrangement of drawing sheets.		
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
-	Anatomical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation	-	
	of muscular-skeletal system. Injury of human organs and musculo-skeletal system during traffic accidents. Mobility of ill and injured i joint prostheses. Protective means and traffic safety regulations.	_	
18Y1EM	Experimental Methods in Mechanics	KZ	2
	role of experimental mechanics. Sensors for mechanical testing. Overview of experimental methods. Destructive and non-destructive ocedures and sample preparation. Tensile and bending tests. Electrical resistance strain gages. Optical based strain measurement. Fa	-	_
	Instrumented hardness testing. Introduction to electron microscopy. Errors in measurement.		
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	· ·	-
	logical materials and to biomimetics. Integral approach to material selection process is also demonstrated based on so called Ashby!		
18Y1PS	Computer Simulations in Mechanics erview of tools for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model development	KZ	2 of geometry
-	riview of tools for stress analysis of structures. Numerical methods in mechanics, limite element method. Geometric model developments are supported in the stress and their use. Discretization of solid model. Boundary conditions an	•	
	tasks of structural and modal analysis. Introduction to complex nonlinear problems.		

18Y1UK	Introduction of Rail Vehicles	KZ	2
	ics and parameters rail transport systems - railway and urban transport. Basis driving mechanics rail vehicles - equation of motion tra		
track resistance. 10	tal running resistance. Acceleration force. Analyzing driving cycle rail vehicle. Speed-power diagrams and characteristics rail vehicle - It and electric drive. Design concept rail vehicles and drive of wheel set.	lydromecnanic, nyd	arodynamic
20SYSA	Systems Analysis	Z,ZK	5
	em sciences, system viewpoint, terminology, typical system analysis tasks, system identification, system interface and interface tasks,		
	strong functions and processes, genetic code, system identity, system architecture. Tools for system analysis - Petri nets, decision tab		
001.1170	tasks. Soft and hard systems, methods for soft system analysis.	7.71/	
20UITS	Introduction to Intelligent Transport Systems   gislative framework telematics systems and their architecture. Telematics systems in practice and their operation. Fundamentals of inform	Z,ZK	7
•	inciples and technical support measurement of traffic data, localization and navigation. Practical work with traffic data. Real examples		
•	principles of ITS.		
20X31D	Project 1 DOS	Z	2
20X32D	Project 2 DOS	Z	2
20X33D	Project 3 DOS	Z	4
20Y1AE	Applied Electronics	KZ	2
	semiconductor components, their principles, characteristics and typical connection diagrams. Semiconductor PN junction diodes, tran ogic gates. Functions of basic electronic circuits and methods for their designs (rectifiers, voltage regulator with Zener diode, transisto		
ampliners, basic it	amplifier as an inverting and noninverting amplifier).	r as air ampilior, o	perational
20Y1AF	Alternative Forms of Transportation Project Financing	KZ	2
	such forms of financing in transportation and telecomunications, where the public sector body perform the final debtor, i. e. debt paym		
the final debtor is n	ot a direct participant of the transaction and it is not the counterparty of the financial institute which provides the funding. Issue of security is a security of the financial institute which provides the funding.	ırities as an alterna	ative source
201/454	of transportation and telecomunication projects.	1/7	
20Y1EA State of the atmost	Environmental Aspects of Transport  bere, weather observation network, weather in transportation, road meteorology. Weather forecasting, data assimilation, probabilistic	KZ forecast	2 evaluation
-	n pollutants and their effects, atmospheric chemistry, traffic emissions. Greenhouse gasses, carbon cycle, a role of energy and transp		
20Y1EK	Qualification in Electrical Engineering	KZ	2
=	e with measurements in laboratories, electrical equipment, power supply, electrical installation of low voltage, electric shock hazard, s	=	- 1
voltage, maximum	allowed currents, electrical equipment protection against short circuit and overload protection, control and revision, first aid, legislatic	n, standards and r	egulations
20Y1KP	in relation to health and safety and electrical engineering.  Communication and presentation skills	KZ	2
	es and their fulfillment, current communication networks, work with various sources, formal requirements of emails and final theses, b		
	tional intelligence, manipulation and way of working with it, coping with stressful situations, formal requirements of presentations, way		
	presentation, presentation skills, presentation skills in online environment.		
20Y1LN	Location and Navigation	KZ	2
Description and e	examples of road networks, localization on the network. Routing algorithms, their properties and implementation. Description and examples of road networks, localization on the network. Routing algorithms, their properties and implementation.	nples of datasets f	or finding
20Y1OI	Fare Collection and Information Systems	KZ	2
	stems in public transport and their components (on-board units, validators, turnstiles,). Information systems and their components		
	nels) and operators (cycles, location or current delay of vehicles,). The issue of tariff systems. Other examples of clearance systems		
20Y1OK	Road Lighting	KZ	2
	tities and terms, street lighting components (luminaires, control cabinets for street lighting, street lighting cables), characteristics of lumir standards, measurement of illuminance and luminance in road lighting, tunnels, conceptual approach to street lighting design, lightin		
ng.n. a.ee,,	Relux, street lighting control systems.	,	, teax and
20Y1PK	Product Quality Management Processes	KZ	2
	of organization management. Management systems and international standards; quality management systems. Quality products, prod	=	
of standards for sys	tems management, management principles. Principles of process management, monitoring and measurement systems management. U for systems management. Process management principles. Metrology and testing. Product certification.	niform framework o	of standards
20Y1SC	Sensors and Actuators	KZ	2
	s and actuators. Basics of measuring theory and actuating influence. The respective technologies and construction principles. Sensors of		
	state (temperature, humidity), chemical and particle flow values. Electrical, pneumatic and hydraulic actuators and solid phase ele		
21SLD	Seminar of Air Transport	Z	0
-	ons, terminology, basic rules. VFR / IFR. Basics of aerodynamics. Propulsion of aircraft. Aircraft design. Basics of navigation, radio na Iht planning, optimization of speed and heights, minimum fuel. Limitations of operation, maintenance, service life of aircraft. Traffic ma	-	
periormance. ring	security. Air crew. Airlines and economics. Space technologies.	lagement, ground	riaridinig,
21X31D	Project 1 DOS	Z	2
21X32D	Project 2 DOS	Z	2
21X33D	Project 3 DOS	Z	4
21Y1AM	Aeronautical Information Management (AIM)	KZ	2
	c overview of AIS and AIM. Transition from AIS to AIM. Regulatory base. Provision of AIS/AIM in the Czech Rep. AIP (Aeronautical In	•	
tne Czech Rep. A	IRAC System. NOTAM messages.PIB (Pre-flight Informtion Bulletin). AIC (Aeoronautical Inf. Circulars). Aeronautical Charts. EAD (Eu (Quality Mng. System). ADQ (Aeronautical Data Quality). AIXM (Aeronautical Inf. Exchnage Format).	opena AIS Databa	ase). QMS
21Y1BS	Unmanned aircraft systems 1	KZ	2
	n Development. Aircraft design. Legislation in force in the Czech Republic. Planning and execution of the flight. Airspace division. Ope		
	procedures. Practical flights.		
21Y1LJ	Aeronautical Radio and Flight Instruments	KZ	2
	istory of aircraft instrumentation, aerometric instrumentation, Earth magnetism, aircraft electric equipment, gyroscopic instrumentation		
21Y1LS	Ift equipment, engine instrumentation, warning and recording systems, instrumentation operational requirements, radiocommunication  Air Traffic Services	KZ	2
	in Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, APP		
	at USA and Czechoslovakia. ATS - Model of financing. Training System of Air Traffic Controllers. Future development of ATS		-

21Y1MP	Matlab for project-oriented study	KZ	2
The subject's syllal	bus is focused on the problem-solving during bachelor's thesis preparation and it is based on students' requests. Individual exercises	will be prepared	according to
particular examp	les, based on actual students' needs and suggestions. The subject will have a flexible form, which is expected to bring an improveme	nt of students' Ma	atlab skills.
21Y1OH	Airline Business and Operations	KZ	2
	s a comprehensive view of the commercial, operational and transportation activities of air transport companies. It focuses on the organiza		I
· ·	heir strategy, economic and operational indicators. It introduces students in detail to operational processes and the essentials of transp		-
·	a basic view of the economic aspects of air transport.	·	•
21Y1PA	Air Traffic Control Operating Procedures	KZ	2
	on the ATC simulator with the following focus - getting familiar with the simulation environment, acquiring basic habits, aircraft identify	ication procedure	s, vectoring,
level changes, ATC	clearance, use of RNAV points. Practical exercises focused on the basis of vectoring, timely application of vertical spacing, EST and	I REV message tr	ansmission.
	Exercises in the APPROACH airspace, arrivals, departures and conflict solutions.		
21Y1PC	ATC Procedures and Activities	KZ	2
	procedures, basics of communication and phraseology, aircraft identification, spacing and traffic coordination. In addition, the course of		1
-	ts and low visibility operational procedures. Students will during the course learn basic safety management applications applied acro-		
21Y1RZ	Human Resources Management	KZ	2
	numan resources in the organization and related disciplines file. Substance, importance and challenges of human resources manage		1
	nan 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.		•
21Y1SI	ATC Simulator	KZ	2
- 1	vith the simulation environment, acquiring basic habits, aircraft identification procedures, vectoring, level changes, ATC clearance, us		1
	ig on basic vectoring, early application of vertical separation, EST and REV message passing. Practical exercises in the APPROACH	-	
	departure management procedures, conflict resolution.	3	
21Y1TH	Aircraft Technical Handling	KZ	2
	and pushing tractors. GPU. Air conditioning and heating units. Aircraft fuel equipment. De-acing and anti-icing units. Loading and unlo		1
, o. a o g .	and passing tractors of of the conditioning and reading anter racing and only and and the congress of the		
pa	ssangers onboarding and offboarding. Operational processes of aircraft technical handling and regulations. Modernization and technical bandling and regulations.		omone ioi
	ssangers onboarding and offboarding. Operational processes of aircraft technical handling and regulations. Modernization and techn  Aircraft Maintenance	ical progress.	
21Y1UL	Aircraft Maintenance	ical progress.	2
21Y1UL Aircraft operations a	Aircraft Maintenance and technical operations. Maintenance and work processes. Defects search methods, status check diagnostic tools. Selection and qua	ical progress.  KZ  lification of aviatio	2 on personnel.
21Y1UL Aircraft operations a	Aircraft Maintenance and technical operations. Maintenance and work processes. Defects search methods, status check diagnostic tools. Selection and qua ion for maintenance. Optimization of time maintenance intervals. Regulation no. 1321/2014 Part 145. Human factors of aircraft mainte	ical progress.  KZ  lification of aviatio	2 on personnel.
21Y1UL Aircraft operations a Basic documentati	Aircraft Maintenance and technical operations. Maintenance and work processes. Defects search methods, status check diagnostic tools. Selection and qua ion for maintenance. Optimization of time maintenance intervals. Regulation no. 1321/2014 Part 145. Human factors of aircraft mainte EASA for aircraft maintenance. Seminars will be focused on practical application.	ical progress.  KZ  Ilification of aviation ance. Regulation	2 on personnel. n of director
21Y1UL Aircraft operations a Basic documentati	Aircraft Maintenance and technical operations. Maintenance and work processes. Defects search methods, status check diagnostic tools. Selection and qua ion for maintenance. Optimization of time maintenance intervals. Regulation no. 1321/2014 Part 145. Human factors of aircraft mainte  EASA for aircraft maintenance. Seminars will be focused on practical application.  Basics of Air Transport	KZ lification of aviation and Regulation KZ	2 on personnel. n of director
21Y1UL Aircraft operations a Basic documentati  21ZALD History, definitions,	Aircraft Maintenance and technical operations. Maintenance and work processes. Defects search methods, status check diagnostic tools. Selection and qua ion for maintenance. Optimization of time maintenance intervals. Regulation no. 1321/2014 Part 145. Human factors of aircraft mainte EASA for aircraft maintenance. Seminars will be focused on practical application.  Basics of Air Transport terminology, basic rules. VFR/IFR. Basics of aerodynamics. Propulsion of aircraft. Aircraft design. Basics of navigation, radio navigation.	KZ  Ification of aviation of a	2 on personnel. of director 2 performance.
21Y1UL Aircraft operations a Basic documentati  21ZALD History, definitions,	Aircraft Maintenance and technical operations. Maintenance and work processes. Defects search methods, status check diagnostic tools. Selection and qua ton for maintenance. Optimization of time maintenance intervals. Regulation no. 1321/2014 Part 145. Human factors of aircraft maintenance. Seminars will be focused on practical application.  Basics of Air Transport terminology, basic rules. VFR/IFR. Basics of aerodynamics. Propulsion of aircraft. Aircraft design. Basics of navigation, radio navigation. imization of speed and heights, minimum fuel. Limitations of operation, maintenance, service life of aircraft. Traffic management, ground	KZ  Ification of aviation of a	2 on personnel. of director 2 performance.
21Y1UL Aircraft operations a Basic documentati  21ZALD History, definitions, Flight planning, opt	Aircraft Maintenance and technical operations. Maintenance and work processes. Defects search methods, status check diagnostic tools. Selection and qua ion for maintenance. Optimization of time maintenance intervals. Regulation no. 1321/2014 Part 145. Human factors of aircraft mainte EASA for aircraft maintenance. Seminars will be focused on practical application.  Basics of Air Transport terminology, basic rules. VFR/IFR. Basics of aerodynamics. Propulsion of aircraft. Aircraft design. Basics of navigation, radio navigation. imization of speed and heights, minimum fuel. Limitations of operation, maintenance, service life of aircraft. Traffic management, ground Airlines and economics. Space technologies.	KZ  Ification of aviation of a	2 In personnel. In of director 2 Derformance. rity. Air crew.
21Y1UL Aircraft operations a Basic documentati  21ZALD History, definitions, Flight planning, opt	Aircraft Maintenance and technical operations. Maintenance and work processes. Defects search methods, status check diagnostic tools. Selection and qua ion for maintenance. Optimization of time maintenance intervals. Regulation no. 1321/2014 Part 145. Human factors of aircraft mainte EASA for aircraft maintenance. Seminars will be focused on practical application.  Basics of Air Transport terminology, basic rules. VFR/IFR. Basics of aerodynamics. Propulsion of aircraft. Aircraft design. Basics of navigation, radio navigation.' imization of speed and heights, minimum fuel. Limitations of operation, maintenance, service life of aircraft. Traffic management, grout Airlines and economics. Space technologies.  Traffic Accidents	KZ  Ilification of aviation of	2 on personnel. on of director 2 oerformance. rity. Air crew.
21Y1UL Aircraft operations a Basic documentati  21ZALD History, definitions, Flight planning, opt  22DON Introduction to Roa	Aircraft Maintenance and technical operations. Maintenance and work processes. Defects search methods, status check diagnostic tools. Selection and qua ion for maintenance. Optimization of time maintenance intervals. Regulation no. 1321/2014 Part 145. Human factors of aircraft maintenance. Seminars will be focused on practical application.  Basics of Air Transport terminology, basic rules. VFR/IFR. Basics of aerodynamics. Propulsion of aircraft. Aircraft design. Basics of navigation, radio navigation. imization of speed and heights, minimum fuel. Limitations of operation, maintenance, service life of aircraft. Traffic management, grout Airlines and economics. Space technologies.  Traffic Accidents d Accidents and Forensic Expertise; Rail, Water and Air Accidents; Road Accident Documentation and Documentation Technology; Accidents	ical progress.  KZ  Ilification of aviation and aviation of aviati	2 on personnel. on of director 2 oerformance. rity. Air crew. 6 orders - EDR
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