Recomended pass through the study plan

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

Faculty/Institute/Others:

Department:

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

Branch of study guranteed by the department: Welcome page

Guarantor of the study branch:

Program of study: Technology in Transportation and Telecommunications

Type of study: Bachelor full-time

Note on the pass:

Coding of roles of courses and groups of courses:

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

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

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

Number of semester: 1

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
14ASD	Algorithm and Data Structures Tomáš Brandejský, Michal Je ábek, Alena Kubá ová, Jan Procházka, Vít Fábera, Martin Fiala, Lukáš Svoboda, Tereza Panská Vít Fábera Vít Fábera (Gar.)	KZ	3	0P+2C+8E	3 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	B Z	Z
15DPLG	Transportation Psychology	Z	2	2P+0C+6E	B Z	Z
11GIE	Geometry Old ich Hykš, Pavel Provinský, Šárka Vorá ová Old ich Hykš Old ich Hykš (Gar.)	KZ	3	2P+2C+12E	3 Z	Z
14KSP	Constructing with Computer Aid Lukáš Svoboda	KZ	2	0P+2C+8E	B 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	B 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	3 Z	Z
18TED	Technical Documentation Jitka ezní ková, Vít Malinovský Jitka ezní ková Jitka ezní ková (Gar.)	KZ	2	1P+1C+8E	B Z	Z
TV-1	Physical Education	Z	1		Z	Z
16UDOP	Introduction into Vehicles Zuzana Radová, Petr Bouchner	Z	2	2P+0C+8E	B Z	Z
12ZYDI	Introduction to Transportation Engineering Zuzana arská, Dagmar Ko árková	Z,ZK	2	1P+1C	Z	Z
18STD	Seminary from Technical Documentation	Z	0	0P+2C	Z	V
TVKZV	Physical Education Course	Z	0	7dní	Z	V

Number of semester: 2

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
11CAL2	Calculus 2 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+10E	3 Z	Z
14DATS	Database Systems Jan Kr ál, Jana Kaliková Jana Kaliková Jana Kaliková (Gar.)	KZ	2	1P+1C+10E	3 Z	Z
11FYZ	Physics Old ich Hykš, Pavel Demo, Zuzana Malá, Tomáš Vít , Jana Kuklová Jana Kuklová Pavel Demo (Gar.)	Z,ZK	5	2P+2C+18E	B Z	Z
12MDE	Transport Models and Transport Excesses Tomáš Pad lek, Josef Kocourek	Z,ZK	3	2P+1C+8E	3 Z	Z
12PPOK	Designing Roads, Highways and Motorways Tomáš Pad lek, Josef Kocourek, Petr Kumpošt Josef Kocourek (Gar.)	KZ	3	1P+2C+10E	3 Z	Z
18PZP	Elasticity and Strength Tomáš Doktor, Jitka ezní ková, Josef Jíra, Jan Šleichrt, Jan Vy ichl, Daniel Kytý, Ond ej Jiroušek Ond ej Jiroušek (Gar.)	Z,ZK	3	2P+1C+10E	B 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	B 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+20E	B 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 Zuzana Malá 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

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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
14AM	Automation and Measurement Vit Fábera	Z,ZK	6	3P+3C	L	Z
15JZ2A	Foreign Language - English 2 Marek Tome ek (Gar.)	Z,ZK	3	0P+4C+10B	L	Z
16DOTE	Transport Technology Josef Mík	Z,ZK	6	3P+3C	L	Z
11MAMY	Mathematical Methods Jan P ikryl	Z,ZK	7	3P+3C	L	Z
11SEMO	Seminar of Electromagnetic Field and Optics Zuzana Malá	Z	0	0P+2C	L	ZP
X1-BP-ITS-22/23	Projekty Bc. prezen ní TET-ITS od 2022/23 16X31S,15X31S, (see the list of groups below)	Min. cours. 3 Max. cours. 3	Min/Max 6/6			ZP
4S-BP-ITS-V1-22/23	4. sem. Bc. prezen ní TET-ITS výb r p edm tu od 2022/23 11EMO,20ZEKT	Min. cours.	Min/Max 4/4			Z

		Max. cours.				
Y1-BP-ITS-24/25	PVP-B Bc. prezen níTET-ITS od 2024/25 21Y1AM,00Y1XB, (see the list of groups below)	Min. cours. 3 Max. cours. 3	Min/Max 6/6		PV	

Number of semester: 5

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
20ELKA	Qualification in Electrical Engineering Daniel Beránek, Jind ich Sadil Daniel Beránek	KZ	2	2P+0C	Z	Z
14ISYD	Information Systems in Transportation Jan Kr ál, Jana Kaliková, Marek Kalika Marek Kalika Marek Kalika (Gar.)	Z,ZK	7	2P+4C	Z	Z
20RIZE	Railway Traffic Management Martin Leso, Jind ich Sadil, Dušan Kamenický, Petr Koutecký Dušan Kamenický	Z,ZK	7	3P+3C	Z	ZP
20TAMS	Telecommunications and Local Area Networks Martin Šrotý, Zden k Lokaj, Tomáš Zelinka Tomáš Zelinka (Gar.)	Z,ZK	7	3P+3C	Z	Z
X1-BP-ITS-22/23	Projekty Bc. prezen ní TET-ITS od 2022/23 16X31S,15X31S, (see the list of groups below)	Min. cours. 3 Max. cours. 3	Min/Max 6/6			ZP
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-ITS-24/25	PVP-B Bc. prezen ní TET-ITS od 2024/25 21Y1AM,00Y1XB, (see the list of groups below)	Min. cours. 3 Max. cours. 3	Min/Max 6/6			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
20APEL	Applied Electronics	KZ	2	0P+2C	L	Z
20ATEL	Applied Telematics	Z,ZK	7	3P+3C	L	Z
20RISI	Road Traffic Control	Z,ZK	7	3P+3C	L	ZP
16SVIR	Vehicle Systems and Interaction with Driver	Z,ZK	7	3P+3C	L	Z
X1-BP-ITS-22/23	Projekty Bc. prezen ní TET-ITS od 2022/23 16X31S,15X31S, (see the list of groups below)	Min. cours. 3 Max. cours. 3	Min/Max 6/6			ZP
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-ITS-24/25	PVP-B Bc. prezen ní TET-ITS od 2024/25 21Y1AM,00Y1XB, (see the list of groups below)	Min. cours. 3 Max. cours. 3	Min/Max 6/6			PV

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

Kód		Name of the group o	f courses and	d codes of members of this or below the list of courses	Com	pletion	Credit	Scope	Semester	Role
					_	cours.				
						1	Min/Ma	x		
4S-BP-IT	S-V1-22/23	4. sem. Bc. prezen	ní TET-ITS vý	b r p edm tu od 2022/23	Max.	cours.	4/4			Z
						1	".			
11EMO	Electromag	gnetic Field and Optics	20ZEKT	Fundamentals of Electrical Engin		•				
		·	1	-	Min.	cours.				
						2	Min/Ma	x		
JZ-BP-T	ΓET-22/23	Bc. TET (min	no LED) druhy	ý jazyk od 2022/23	Max	cours.	6/6			J
					linax.	2	0,0			
15JZ3F	Foreign La	nguage - French 3	15JZ3I	Foreign Language - Italian 3		15JZ3N		Foreign Lang	uage - German	2
15JZ3R		nguage - Russian 3	15JZ3S	Foreign Language - Spanish 3		15JZ4F			uage - German	
15JZ4I		nguage - Italian 4	15JZ4N	Foreign Language - German 4		15JZ4R			uage - Russian	
15JZ4S	Foreign La	nguage - Spanish 4								
					Min.	cours.				
== .						3	Min/Ma	x		
X1-BP-I	ITS-22/23	Projekty Bc	. prezen ní TE	ET-ITS od 2022/23	Max	cours.	6/6			ZP
						3	0,0			
16X31S	Project 1 IT	rq	15X31S	Project 1 ITS		14X31S		Project 1 ITS		
16X31S 12X31S	Project 1 IT		15X31S 11X31S	Project 1 ITS Project 1 ITS		14X31S 23X31S		Project 1 ITS		
18X31S	Project 1 IT		20X31S	Project 1 ITS		21X31S		Project 1 ITS		
22X31S	Project 1 IT		17X31S	Project 1 ITS		16X32S		Project 2 ITS		
15X32S	Project 2 IT		14X32S	Project 2 ITS		12X32S		Project 2 ITS		
11X32S	Project 2 IT		17X32S	Project 2 ITS		23X32S		Project 2 ITS		
22X32S	Project 2 IT		21X32S	Project 2 ITS		20X32S		Project 2 ITS		
		S	11X33S	Project 3 ITS		12X33S		Project 3 ITS		
	Project 2 IT	re .	4EV22C	Droject 2 ITC						
14X33S	Project 3 IT		15X33S	Project 3 ITS		16X33S		Project 3 ITS		
		rs	15X33S 21X33S 17X33S	Project 3 ITS Project 3 ITS Project 3 ITS		16X33S 20X33S 22X33S	F	Project 3 ITS Project 3 ITS		
14X33S 23X33S	Project 3 IT	rs	21X33S	Project 3 ITS	Min.	20X33S 22X33S	F	Project 3 ITS		
14X33S 23X33S	Project 3 IT	rs	21X33S	Project 3 ITS	Min.	20X33S 22X33S cours.	F F	Project 3 ITS Project 3 ITS		
14X33S 23X33S 18X33S	Project 3 IT	rs rs	21X33S 17X33S	Project 3 ITS		20X33S 22X33S cours. 3	Min/Ma	Project 3 ITS Project 3 ITS		PV
14X33S 23X33S 18X33S	Project 3 IT Project 3 IT Project 3 IT	rs rs	21X33S 17X33S	Project 3 ITS Project 3 ITS		20X33S 22X33S cours. 3 cours.	F F	Project 3 ITS Project 3 ITS		PV
14X33S 23X33S 18X33S Y1-BP-I	Project 3 IT Project 3 IT Project 3 IT	rs PVP-B Bc.	21X33S 17X33S prezen ní TE	Project 3 ITS Project 3 ITS T-ITS od 2024/25		20X33S 22X33S cours. 3 cours. 3	Min/Ma 6/6	Project 3 ITS Project 3 ITS		
14X33S 23X33S 18X33S Y1-BP-I 21Y1AM	Project 3 IT Project 3 IT Project 3 IT Project 3 IT Aeronautica	PVP-B Bc. al Information Managem	21X33S 17X33S prezen ní TE	Project 3 ITS Project 3 ITS T-ITS od 2024/25 Active participation in a scient		20X33S 22X33S cours. 3 cours. 3 20Y1AF	Min/Ma 6/6	Project 3 ITS Project 3 ITS X	orms of Transpo	
14X33S 23X33S 18X33S Y1-BP-I 21Y1AM 18Y1AM	Project 3 IT Project 3 IT Project 3 IT Project 3 IT Aeronautica Anatomy, M	PVP-B Bc. al Information Managem Mobility and Safety of	21X33S 17X33S prezen ní TE	Project 3 ITS Project 3 ITS Project 3 ITS T-ITS od 2024/25 Active participation in a scient Animation and Visualization		20X33S 22X33S cours. 3 cours. 3 20Y1AF 12Y1AE	Min/Ma 6/6	Project 3 ITS Project 3 ITS X Alternative Foundation	gy	ortat
14X33S 23X33S 18X33S Y1-BP-I 21Y1AM 18Y1AM 20Y1AE	Project 3 IT Project 3 IT Project 3 IT Project 3 IT Aeronautica Anatomy, M Applied Ele	PVP-B Bc. al Information Managem Mobility and Safety of sectronics	21X33S 17X33S prezen ní TE 00Y1XB 14Y1AV 14Y1BE	Project 3 ITS Project 3 ITS Project 3 ITS T-ITS od 2024/25 Active participation in a scient Animation and Visualization Barrierless Transport		20X33S 22X33S cours. 3 cours. 3 20Y1AF 12Y1AE 15Y1BO	Min/Ma 6/6	Project 3 ITS Project 3 ITS X Alternative For Applied Ecolor Vork Safety a	gy and Health Prot	ortat
14X33S 23X33S 18X33S Y1-BP-I 21Y1AM 18Y1AM 20Y1AE 11Y1BK	Project 3 IT Project 3 IT Project 3 IT Project 3 IT Aeronautica Anatomy, M Applied Ele	PVP-B Bc. al Information Managem Mobility and Safety of actronics tion Codes for Interl	21X33S 17X33S prezen ní TE	Project 3 ITS Project 3 ITS Project 3 ITS T-ITS od 2024/25 Active participation in a scient Animation and Visualization	Max.	20X33S 22X33S cours. 3 cours. 3 20Y1AF 12Y1AE	Min/Ma 6/6	Project 3 ITS Project 3 ITS X Alternative Foundation	gy and Health Prot thods	ortat
14X33S 23X33S 18X33S Y1-BP-I 21Y1AM 18Y1AM 20Y1AE 11Y1BK 15Y1DZ	Project 3 IT Project 3 IT Project 3 IT Project 3 IT Aeronautica Anatomy, M Applied Ele Error Detect History of F	PVP-B Bc. al Information Managem Mobility and Safety of actronics tion Codes for Interl	21X33S 17X33S prezen ní TE 00Y1XB 14Y1AV 14Y1BE 21Y1BS	Project 3 ITS Project 3 ITS Project 3 ITS T-ITS od 2024/25 Active participation in a scient Animation and Visualization Barrierless Transport Unmanned aircraft systems 1	Max.	20X33S 22X33S cours. 3 cours. 3 20Y1AF 12Y1AE 15Y1BO 14Y1BM	F F F F	Project 3 ITS Project 3 ITS Alternative For Applied Ecolor Vork Safety a Biometric Met Public Sector	gy and Health Prot thods	ectio
14X33S 23X33S 18X33S Y1-BP-I 21Y1AM 18Y1AM 20Y1AE 11Y1BK 15Y1DZ 23Y1EH 20Y1EA	Project 3 IT Project 3 IT Project 3 IT Project 3 IT Aeronautica Anatomy, M Applied Ele Error Detect History of F Electronics Environment	PVP-B Bc. al Information Managem Mobility and Safety of sectronics Stion Codes for Interl Railway and hardware in secu Intal Aspects of Transpo	21X33S 17X33S prezen ní TE 00Y1XB 14Y1AV 14Y1BE 21Y1BS 12Y1DS 20Y1EK 15Y1EH	Project 3 ITS Project 3 ITS Project 3 ITS T-ITS od 2024/25 Active participation in a scient Animation and Visualization Barrierless Transport Unmanned aircraft systems 1 Project Documentation in Practic . Qualification in Electrical Engi European Integration within Hist	Max.	20X33S 22X33S cours. 3 cours. 3 20Y1AF 12Y1AE 15Y1BO 14Y1BM 17Y1EV 16Y1EN 18Y1EM	F F F F F F F F F F	Project 3 ITS Project 3 ITS Alternative For Applied Ecolor Work Safety a Biometric Met Public Sector Energy Requires Experimental	gy and Health Prot thods Economy rements of Veh Methods in Me	ectio
14X33S 23X33S 18X33S 18X33S Y1-BP-I 21Y1AM 18Y1AM 20Y1AE 11Y1BK 15Y1DZ 23Y1EH 20Y1EA 15Y1FD	Project 3 IT Project 3 IT Project 3 IT Project 3 IT Project 3 IT Aeronautica Anatomy, M Applied Ele Error Detect History of F Electronics Environment French Are	PVP-B Bc. al Information Managem Mobility and Safety of sectronics tion Codes for Interl Railway and hardware in secu ntal Aspects of Transpo a Studies and Transpor	21X33S 17X33S prezen ní TE 00Y1XB 14Y1AV 14Y1BE 21Y1BS 12Y1DS 20Y1EK 15Y1EH 14Y1HW	Project 3 ITS Project 3 ITS Project 3 ITS T-ITS od 2024/25 Active participation in a scient Animation and Visualization Barrierless Transport Unmanned aircraft systems 1 Project Documentation in Practic . Qualification in Electrical Engi European Integration within Hist Computer Hardware	Max.	20X33S 22X33S cours. 3 cours. 3 20Y1AF 12Y1AE 15Y1BO 14Y1BM 17Y1EV 16Y1EN 18Y1EM 15Y1HL	F F F F F F F F F F	Project 3 ITS Project 3 ITS Authorized 4 ITS A	gy and Health Prot thods Economy rements of Veh Methods in Me il Aviation	ectio
14X33S 23X33S 18X33S 18X33S Y1-BP-I 21Y1AM 18Y1AM 20Y1AE 11Y1BK 15Y1DZ 23Y1EH 20Y1EA 15Y1FD 15Y1HD	Project 3 IT Project 3 IT Project 3 IT Project 3 IT Project 3 IT Aeronautica Anatomy, M Applied Ele Error Detect History of F Electronics Environment French Are History of C	PVP-B Bc. al Information Managem Mobility and Safety of extronics ction Codes for Interl Railway and hardware in secu ntal Aspects of Transpo a Studies and Transpor City Mass Transport	21X33S 17X33S prezen ní TE 00Y1XB 14Y1AV 14Y1BE 21Y1BS 12Y1DS 20Y1EK 15Y1EH 14Y1HW 12Y1HD	Project 3 ITS Project 3 ITS Project 3 ITS T-ITS od 2024/25 Active participation in a scient Animation and Visualization Barrierless Transport Unmanned aircraft systems 1 Project Documentation in Practic . Qualification in Electrical Engi European Integration within Hist Computer Hardware Traffic Noise	Max.	20X33S 22X33S cours. 3 cours. 3 20Y1AF 12Y1AE 15Y1BO 14Y1BM 17Y1EV 16Y1EN 18Y1EM 15Y1HL	F F F F F F F F F F	Project 3 ITS Project 4 ITS Pr	gy and Health Prot thods Economy rements of Veh Methods in Me il Aviation e and Ergonom	ectio sectio sicles schanic
14X33S 23X33S 18X33S 18X33S Y1-BP-I 21Y1AM 18Y1AM 20Y1AE 11Y1BK 15Y1DZ 23Y1EH 20Y1EA 15Y1FD 15Y1HD 16Y1IS	Project 3 IT Project 3 IT Project 3 IT Project 3 IT Project 3 IT Aeronautica Anatomy, M Applied Ele Error Detect History of F Electronics Environment French Are History of C Interactive	PVP-B Bc. al Information Managem Mobility and Safety of sectronics tion Codes for Interl Railway and hardware in secu ntal Aspects of Transpo a Studies and Transpor City Mass Transport simulators and simul	21X33S 17X33S prezen ní TE 00Y1XB 14Y1AV 14Y1BE 21Y1BS 12Y1DS 20Y1EK 15Y1EH 14Y1HW 12Y1HD 12Y1KN	Project 3 ITS Project 3 ITS Project 3 ITS T-ITS od 2024/25 Active participation in a scient Animation and Visualization Barrierless Transport Unmanned aircraft systems 1 Project Documentation in Practic . Qualification in Electrical Engi European Integration within Hist Computer Hardware Traffic Noise Combined Transportation	Max.	20X33S 22X33S cours. 3 cours. 3 20Y1AF 12Y1AE 15Y1BO 14Y1BM 17Y1EV 16Y1EN 18Y1EM 15Y1HL	F F F F F F F F F F	Project 3 ITS Project 4 ITS Pr	gy and Health Prot thods Economy rements of Veh Methods in Me il Aviation e and Ergonom on and Promoti	ectio icles ichanic ics in T on of T
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23Y1VS	Negotiation and Cooperation	14Y1VM	Development of Applications for	16Y1VT	Development in Railroad Vehicles
14Y1WG	Webdesign	14Y1W1	Webdesign 1	14Y1W2	Webdesign 2
16Y1ZG	Introduction into Applied Comput	14Y1ZM	Fundamentals of parametric and a	11Y1ZM	Foundation of MATLAB Programming
14Y1ZJ	Fundamentals of programming in J	12Y1ZU	Principles of Urbanism	15Y1ZV	East-West dichotomy: Prelude to
16Y1ZL	Vehicle Testing, Legislation and			•	

List of courses of this pass:

Code	Name of the course	Completion	Credits
00Y1XB	Active participation in a scientific project, workshop, short-term trip abroad	KZ	2
11CAL1	Calculus 1	Z,ZK	7
Sequence of real n	umbers and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative. Indefinite integral, Newton integral Riemann integral. First-order differential equations, linear differential equations.	ral, Riemann integr	al, imprope
11CAL2 Linea	Calculus 2 r differential equations and their systems, differential calculus of functions of several real variables. Riemann integral in Rn. Line and	Z,ZK surface integrals.	5
11EMO	Electromagnetic Field and Optics Electric field. Electric current. Magnetic field. Electromagnetic field. Optics. Basics of solid-state physics.	Z,ZK	4
11FYZ	Physics	Z,ZK	5
	Kinematics, dynamics, Newton's laws, force fields, mechanics of continuum, thermodynamics, introduction to electrostatics and electrostatics and electrostatics.	ric current.	'
11GIE	Geometry	KZ	3
Differential geome	etry of curves - parameterization, the arc of the curve, torsion and curvature, Frenet's trihedron. Kinematics - a curve as a trajectory of	f the motion, the v	elocity, and
441.0	acceleration of a particle moving on a curved path.	7 71/	
11LA Vector spaces (line	Linear Algebra ar combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and their applications. Scalar product. Similarity of matrices (cigary place and cigary potents). Quadratic forms and their classifications.		3 minants and
11MAMY	their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classifications. Mathematical Methods	Z,ZK	7
	Internation Methods deling. The system and its mathematical description. Types of signals. Basic system responses. Convolution. State models. Principle		1
	Data measurement. Uncertainty in measured data. Data normalization. Preparation of data for further processing. Linear state model condition estimation. Statistical learning methods. Regression, classification.		
11SCFZ	Seminar of Physics	Z	0
	Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermody	namics.	'
11SEMO	Seminar of Electromagnetic Field and Optics Solving problems on electric and magnetic field, electromagnetic field, optics and basics of solid-state physics.	Z	0
11SSF	Secondary School Physics Course Basics of kinematics, dynamics, thermodynamics, electric field and magnetic field.	Z	0
11STAT Basics of probabil	Statistics lity Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Paramel Regression and correlation analysis	Z,ZK ric tests Nonparan	4 netric tests
11TGA	Graph Theory and its Applications in Transport	Z,ZK	4
	f graph theory, paths in graphs, flows in networks, location problems, design problems on graphs, optimum routing, use of graphs in c		· .
11X31S	Project 1 ITS	Z	2
11X32S	Project 2 ITS	Z	2
11X33S	Project 3 ITS	Z	2
11Y1BK	Error Detection Codes for Interlocking Systems	KZ	2
Safe communicatio	on and methods for its assuring. Safety codes linear codes, cyclic codes, BCH codes, Reed-Solomon codes. Transmission channels, de probability of undetected error. Design and assessment of detection codes; requirements of the European standard EN 5015		ssion errors
11Y1PV	Parametrical and Multicriterial Programming	KZ	2
	parametrical and Multichterial Frogramming Jean of linear programming with a parameter in objective function, on right sides and in the matrix of coeficients of linear constraints. Co		I
11Y1SI	Transportation Software Engineering	KZ	2
	coftware engineering, ranging from domain analysis, requirement analysis and software architectures to analyses, design and implement and practical usuage.		I
11Y1TG	Graph Theory	KZ	2
Basic concepts and	d terminology of graph theory, graph representation. Problems of graph theory, problem instance. Graph search algorithms, trees, mir rian path, bipartite graph matching, flow networks, circulations, critical path method, traveling salesman problem. Problem of existence a for their solving. Computational complexity, dealing with NP-complete problems, heuristic approach.	nimum spanning tr	
11Y1ZM	Foundation of MATLAB Programming	KZ	2
	ciple of algorithmization, flow charts, description of MATLAB environment and its settings, MATLAB help, mathematical operators, mate control flow, inputs and outputs, graphics, optimization and program code debugging.		1
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 quassessment. Statistical characteristics of transport. Transport excesses, their analysis, the causes, identify and minimize the consequences safety and fluency.	ieues, shock wave	s. Quality o

	Designing Roads, Highways and Motorways	KZ	3
12PPOK	pownership, maintenance, management and categorization of roads and highways. Curve and transition curve. Sinuosity and standard		_
	stopping and overtaking. Road body - shapes and proportions, bottom and superstructure. Drainage and components of roads. Safet	•	
ange er vielen ier	intersections.	, acricol crocomig	,0, ,000.
12X31S	Project 1 ITS	Z	2
12X32S	Project 2 ITS	<u>Z</u>	2
	•	Z	
12X33S	Project 3 ITS		2
12Y1AE	Applied Ecology	KZ	2
	ecological concepts and principles, ecosystem, ecological factors, energy flow through the ecosystem. Application of knowledge withi ape ecology - origin and historical development. Landscape definition and classification. Success. Traffic constructions in the countrys 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 explanation of the traffic building design in the real-life profession.		-
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		_
	uilding, from the initial situation, over the longitudinal section, to the model and work sections and the cubic capacity calculation. The improved and developed. Students learn to design intersections.		-
12Y1DS	Project Documentation in Practice	KZ	2
roject documenta	ation creating. Project documentation types. Support materials for project documentation creating. Building permit obtaining process. creation of some project documentation parts.	Budget and pricin	g. Practic
12Y1HD	Traffic Noise	KZ	2
	on, basic terms, quantities. Basics of physiological acoustic, noise impacts on human body. Acoustic legislation, standarts, regulations		ic climate
area, principles	of urban acoustic, noise transmission, soundproofing. Types of noise sources in area. Determination of acoustic situation in the area	of interest. Metho	dology of
	computing and measurement of transport noise. Acoustic studies, measuring protocol.		
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 logist	ic centres
12Y1KP	Communication and Promotion of Transport Projects	KZ	2
undamentals of	Public Relations and the power of public opinion. Work and tasks of PR department and press spokesperson. Communication with th	e media, the publi	c on soci
networks and bey	ond. Communication strategy of transport projects. Systematic goodwill building. Crisis situations in communication and preparation f	or crisis communi	cation. Th
	influence of political marketing and political PR on transport projects. Lobbing.		
12Y1PC	Pedestrian and Cycling Transport	KZ	2
outes for pedestri	ans. Pedestrian crossings. Modifications for blind, dim-sighted and disabled people. Design of cycle routes network. Ways of cycle route	layout and design	paramet
or cyclists. Separa	ation of cyclists from other transport modes. Cycle tracks and its design - one way streets, reserved traffic lanes, bus stops, crossings	with other transp	ort mode
	ation of cyclists from other transport modes. Cycle tracks and its design - one way streets, reserved traffic lanes, bus stops, crossings crossroads. Traffic signs and road marking for cyclists.	with other transp	ort mode
12Y1PD		with other transp	ort mode
12Y1PD	crossroads. Traffic signs and road marking for cyclists. Assessment of Transport Structures sport structures, the EIA process. Multicriteria assessment methods, risk analysis, SWOT analysis. Landscape character, possibilities of	KZ its protection and	2 assessm
12Y1PD	crossroads. Traffic signs and road marking for cyclists. Assessment of Transport Structures sport structures, the EIA process. Multicriteria assessment methods, risk analysis, SWOT analysis. Landscape character, possibilities of s on the landscape. Rating fragmentation and landscape connectivity in the preparation of linear structures. Practical examples of ass	KZ its protection and	2 assessm
12Y1PD ssessment of trans	crossroads. Traffic signs and road marking for cyclists. Assessment of Transport Structures sport structures, the EIA process. Multicriteria assessment methods, risk analysis, SWOT analysis. Landscape character, possibilities of son the landscape. Rating fragmentation and landscape connectivity in the preparation of linear structures. Practical examples of ass the environment.	KZ its protection and essment of traffic	2 assessm buildings
12Y1PD	crossroads. Traffic signs and road marking for cyclists. Assessment of Transport Structures sport structures, the EIA process. Multicriteria assessment methods, risk analysis, SWOT analysis. Landscape character, possibilities of s on the landscape. Rating fragmentation and landscape connectivity in the preparation of linear structures. Practical examples of ass	KZ its protection and	2 assessm
12Y1PD ssessment of transansport structures 12Y1PU Connecting static	crossroads. Traffic signs and road marking for cyclists. Assessment of Transport Structures sport structures, the EIA process. Multicriteria assessment methods, risk analysis, SWOT analysis. Landscape character, possibilities of s on the landscape. Rating fragmentation and landscape connectivity in the preparation of linear structures. Practical examples of ass the environment. Organization Disposition of Railway Stations on. Passenger transport equipment. Freight transport equipment. Branch lines and railway traffic inside industrial company areas. Zon	KZ its protection and essment of traffic KZ e stations. Forma	2 assessm buildings
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12Y1PD ssessment of transansport structures 12Y1PU Connecting static Reser 12Y1RU	crossroads. Traffic signs and road marking for cyclists. Assessment of Transport Structures sport structures, the EIA process. Multicriteria assessment methods, risk analysis, SWOT analysis. Landscape character, possibilities of s on the landscape. Rating fragmentation and landscape connectivity in the preparation of linear structures. Practical examples of ass the environment. Organization Disposition of Railway Stations on. Passenger transport equipment. Freight transport equipment. Branch lines and railway traffic inside industrial company areas. Zon ve stations. Technology of work in railway station with regard to its disposition. Railway station documentations in the Czech Republic Railway Lines Reconstruction ne operational, maintaining lines and stations, geometrical alignment of railway line, vehicles for railway superstructure and substruction	KZ its protection and essment of traffic KZ e stations. Formar railway network. KZ ure maintenance,	2 assessm buildings 2 tion yards
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12Y1PD ssessment of transansport structures 12Y1PU Connecting static Reser 12Y1RU Geeping railway lir 12Y1SU Getting familiar wedium and long-te 12Y1VR Professional and Basic operating particles of the state of th	crossroads. Traffic signs and road marking for cyclists. Assessment of Transport Structures sport structures, the EIA process. Multicriteria assessment methods, risk analysis, SWOT analysis. Landscape character, possibilities of son the landscape. Rating fragmentation and landscape connectivity in the preparation of linear structures. Practical examples of ass the environment. Organization Disposition of Railway Stations on. Passenger transport equipment. Freight transport equipment. Branch lines and railway station industrial company areas. Zon we stations. Technology of work in railway station with regard to its disposition. Railway station documentations in the Czech Republic Railway Lines Reconstruction ne operational, maintaining lines and stations, geometrical alignment of railway line, vehicles for railway superstructure and substruct and organising possesions, preparation of railway lines reconstruction and maintenance, process of ralway line reconstruction Road Management and Maintenance Road Management and Maintenance ith ownership of roads in the Czech Republic and the administration of the road at the state and county level. It is presented development 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. Public Transport in Cities and Regions 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 arameters and transport variations. Types of lines according to their mutual relations (working, living, recreation, transportation). Spacial Types of towns or cities with a certain prevailing function, forms of their development. Brief overview of land-use planning. Railway Lines and Stations illusy track geometry parameters. Route layout	KZ its protection and essment of traffic KZ e stations. Formar railway network. KZ ure maintenance, in. KZ ment of road netw methods are discounted are discounted are discounted arrangement of s Z,ZK patial layout of rail ransport. Z,ZK ublic mass transport. Z,ZK control in closed to	2 assessm buildings 2 tion yards 2 schedulir 2 cork, shor russed in 2 me tracing ffic control 2 ettlement 4 dway lines 2 cort. Negation 6 copp, reactions 2 description 2 cort.
12Y1PD ssessment of transansport structures 12Y1PU Connecting static Reser 12Y1RU Geeping railway lir 12Y1SU Getting familiar wedium and long-te 12Y1VR Professional and Basic operating particles of the state of th	Assessment of Transport Structures sport structures, the EIA process. Multicriteria assessment methods, risk analysis, SWOT analysis. Landscape character, possibilities of son the landscape. Rating fragmentation and landscape connectivity in the preparation of linear structures. Practical examples of ass the environment. Organization Disposition of Railway Stations n. Passenger transport equipment. Freight transport equipment. Branch lines and railway traffic inside industrial company areas. Zon ve stations. Technology of work in railway station with regard to its disposition. Railway station documentations in the Czech Republic Railway Lines Reconstruction ne operational, maintaining lines and stations, geometrical alignment of railway line, vehicles for railway superstructure and substruct and organising possesions, preparation of railway lines reconstruction and maintenance, process of railway line reconstructic Road Management and Maintenance with ownership of roads in the Czech Republic and the administration of the road at the state and county level. It is presented develope the 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. Public Transport in Cities and Regions 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 arameters and transport variations. Types of lines according to their routing and basic operating parameters. Time coordination of line arameters and transport variations. Types of lines according to their routing and basic operating parameters. Time coordination of line arameters and transport variations. Types of lines according to their routing and basic operating parameters. Time coordination of line arameters and tran	KZ its protection and essment of traffic KZ e stations. Formar railway network. KZ ure maintenance, in. KZ ment of road netw methods are discounted are discounted are discounted arrangement of s Z,ZK patial layout of rail ransport. Z,ZK ublic mass transport. Z,ZK control in closed to	2 assessm buildings 2 tion yards 2 schedulir 2 cork, shor russed in 2 me tracing ffic control 2 ettlement 4 dway lines 2 cort. Negation 6 copp, reactions 2 description 2 cort.
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12Y1PD ssessment of transansport structures 12Y1PU Connecting static Reser 12Y1RU Geeping railway lir 12Y1SU Getting familiar wedium and long-te 12Y1VR Professional and Basic operating portion of the state of transport. Rail transport. Ra	crossroads. Traffic signs and road marking for cyclists. Assessment of Transport Structures sport structures, the EIA process. Multicriteria assessment methods, risk analysis, SWOT analysis. Landscape character, possibilities of son the landscape. Rating fragmentation and landscape connectivity in the preparation of linear structures. Practical examples of ass the environment. Organization Disposition of Railway Stations In. Passenger transport equipment. Frieight transport equipment. Branch lines and railway traffic inside industrial company areas. Zon ve stations. Technology of work in railway station with regard to its disposition. Railway station documentations in the Czech Republic Railway Lines Reconstruction Road Management of railway line, vehicles for railway superstructure and substruct and organising possesions, preparation of railway lines reconstruction and maintenance, process of ralway line reconstruction. Road Management and Maintenance With ownership of roads in the Czech Republic and the administration of the road at the state and county level. It is presented develope arm 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. Public Transport in Cities and Regions Public Transport in Cities and Regions 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 stram operation in Prague. Tram safety. Principles of Urbanism of city and settlement building. Functional components and their mutual relations (working, living, recreation, transportation). Spacial Types of towns or cities with a certain prevailing function, forms of their development. Brief overview of land-use planning. Railway Lines and Stations illus	KZ its protection and essment of traffic KZ e stations. Formar railway network. KZ ure maintenance, in. KZ ment of road netw methods are discounted from the foliation of the	2 assessmin buildings 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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14DATS	Database Systems	KZ	2
_	f database systems, conceptual model, relational data model, the principles of normal forms, relational database design, security an		1
,	queries, relational algebra, SQL language, client / server, multilayer architectures, distributed database systems. Access to data via	• .	
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 Seminars possibilities of technical processing problems solved in the field of railway lines.	Z	0
14ISYD	Information Systems in Transportation	Z,ZK	7
	cloud services concept, eGovernment-structure. Electronic communication and signature. IS life cycle and IT projects. Types of inform in transport. Roles, processes, management, optimization in IS. Oracle data types. SQL Developer, SQL queries. Comprehensive ex	-	-
implementation	programming.	ampie and web ap	opiication
14KSP	Constructing with Computer Aid	KZ	2
-	m determination. CAD role in projecting system model. Existing CAD systems on Czech market. Project creation, basic common wor Co-ordinated systems, CAD environment skill (basics of constructing, dimensioning, modifications, user interfaces, projecting possib profiles, drawings with raster foundaments).		
14PRG	Programming	KZ	2
-	ramming builds on and fully extends the course 14ASD (Algorithmization and Data Structures). The knowledge of the Python progran rticipant gains skills and can apply them to solve various follow-up tasks. Main topics: lists, multidimensional arrays, sorting and searc working with date and time, regular expressions, functions and procedures, working with files (CSV, JSON, XML).		-
14X31S	Project 1 ITS	Z	2
14X32S	Project 2 ITS	 Z	2
14X33S	Project 3 ITS	Z	2
14Y1AV	Animation and Visualization	KZ	2
	tions and modeling of NURBS, Patch objects, selection of objects (according to filter and properties). 3D Studio MAX systems and Spa		-
14Y1BE	s, rendering filters, Motion blur, advanced animations, Motion panel. Modeling for morphing and animation, bone formation, animatior Barrierless Transport	KZ	2
	rless accessible public transportation in terms of architectural barriers and also for transportation-technological point of view. Students		1
	onment roads, railway stations, public transport stops, terminal buildings, vehicles, public transport, information and orientation systems Theoretical knowledge will be supplemented by practical examples.	-	
14Y1BM	Biometric Methods	KZ	2
	rms, authentication methods, principles and performance measurement of biometric systems, overview of biometric technologies, ha nethod, 2D and 3D face recognition, vein patterns on the wrist, ear biometrics, fingerprint recognition, skin spectroscopy, behavioral r in transport applications, safety and risks of biometric technologies.	-	_
14Y1HW	Computer Hardware	KZ	2
Computer archite	vocture, 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 - o	controllers,
14Y1MP	Modeling Complex Assemblies and Models in Parametric Modeller	KZ	2
	gramming - tools and methodology of working subassemblies and assemblies, sheet metal parts modelling, welded assemblies, pipel		I
4.47/4.0.1	Photorealistic output rendering - physical and material properties, lighting sources. MKP - visual example.	1/7	
14Y1OJ	Object - oriented programming in JAVA Encapsulation. Classes. Attributes. Access modifiers. Methods and overloading. Special methods (constructors, getters / setters). Ba	KZ sic object method	2 S Referen
,	ince. Polymorphism. Statics, constants, interfaces, abstract classes, enum, packages, exceptions, collections, generics, lambda expre	•	
14Y10P	Operating System	KZ	2
Distributions. Ins	tallation GNU/Linux OS. X-window system. Rights management - users and groups, ACL rights. Filesystems and attributes. Programs	s and processess	OS boot,
runlevels. Basic o	console programs / commands. Config files. SW management, package systems. Programs in graphic shell - text, spreadsheet, graph communication. Services management. Safe and secure configuration of OS. Remote administration.	ic editors, sound,	video and
14Y1P2	Computer Aid of Transportation Projecting 2	KZ	2
-	oplication for transportation projecting aid. AutoCAD environment possibilities of basic tasks automatizing (programming, scripting, data		
modification (attribu	utes, relation to databases). Work in projecting group, external references. Basic tasks for cummunication projecting (clotoidic transition section). Basics of 3D modelling.	i curve, cross-and	iongituain
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, wo	k with data
	connected with external database. Basic definition of work with lights, materials and reflexes. Models presentation.		
14Y1PG	Computer Graphics	KZ	2
14Y1PG Basic formats of g	Computer Graphics graphic and possibilities of their editing and mutual conversion. Use of individual types according to character of work. Work with editing level scope) using layers, DPI, colors. Basics of digital photography, scanning and computer technology like monitors and graphic	ng programs (with s cards.	in the user
14Y1PG Basic formats of g	Computer Graphics graphic and possibilities of their editing and mutual conversion. Use of individual types according to character of work. Work with editing level scope) using layers, DPI, colors. Basics of digital photography, scanning and computer technology like monitors and graphics Corporate Information System	ng programs (with s cards. KZ	in the user
14Y1PG Basic formats of g	Computer Graphics graphic and possibilities of their editing and mutual conversion. Use of individual types according to character of work. Work with editing level scope) using layers, DPI, colors. Basics of digital photography, scanning and computer technology like monitors and graphic	ng programs (with s cards. KZ rticular informatio	in the user
14Y1PG Basic formats of g	Computer Graphics graphic and possibilities of their editing and mutual conversion. Use of individual types according to character of work. Work with editing level scope) using layers, DPI, colors. Basics of digital photography, scanning and computer technology like monitors and graphics Corporate Information System In-knowledge, components of information system, syntatic and semantic sense of data, structure of corporate information system, paluction, storage, etc.), corporate information politic and information control, risks of information system operation, legal environment of	ng programs (with s cards. KZ rticular informatio	in the user
14Y1PG Basic formats of g 14Y1PI Data-informatio personalistic, prod	Computer Graphics graphic and possibilities of their editing and mutual conversion. Use of individual types according to character of work. Work with editing level scope) using layers, DPI, colors. Basics of digital photography, scanning and computer technology like monitors and graphics Corporate Information System n-knowledge, components of information system, syntatic and semantic sense of data, structure of corporate information system, particion, storage, etc.), corporate information politic and information control, risks of information system operation, legal environment of state information system, information system security, data protection, safety politics.	ng programs (with s cards. KZ rticular informatio information syste KZ g, files, structures	2 n system m operatio
14Y1PG Basic formats of g 14Y1PI Data-informatio personalistic, prod	Computer Graphics graphic and possibilities of their editing and mutual conversion. Use of individual types according to character of work. Work with editing level scope) using layers, DPI, colors. Basics of digital photography, scanning and computer technology like monitors and graphics. Corporate Information System n-knowledge, components of information system, syntatic and semantic sense of data, structure of corporate information system, particularly according to the components of information politic and information control, risks of information system operation, legal environment of state information system, information system security, data protection, safety politics. C Programming Language guage. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation, string	ng programs (with s cards. KZ rticular informatio information syste KZ g, files, structures	2 n system m operatio
14Y1PG Basic formats of g 14Y1PI Data-informatio personalistic, prod 14Y1PJ C programming lan 14Y1PZ Students will be	Computer Graphics graphic and possibilities of their editing and mutual conversion. Use of individual types according to character of work. Work with editive level scope) using layers, DPI, colors. Basics of digital photography, scanning and computer technology like monitors and graphics. Corporate Information System In-knowledge, components of information system, syntatic and semantic sense of data, structure of corporate information system, pauction, storage, etc.), corporate information politic and information control, risks of information system operation, legal environment of state information system, information system security, data protection, safety politics. C Programming Language guage. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation, string Implementations of abstract data types (FIFO, LIFO, list), programming techniques (sorting, searching, recursion), using bitwise of Advanced Data Processing in Spreadsheets familiar with principles of working in a spreadsheet. Graphic layout of the table appearance, formatting of numbers, insertion of formula etection. Working with large spreadsheets, filters, advanced filters, database functions. Pivot tables and charts, conditional formatting, searching, searching	ng programs (with s cards. KZ rticular informatio information syste KZ ng, files, structures prerators. KZ las and functions	2 n system m operatio 2 s and union 2 including
14Y1PG Basic formats of g 14Y1PI Data-informatio (personalistic, prod 14Y1PJ C programming lan 14Y1PZ Students will be addressing, error de	Computer Graphics graphic and possibilities of their editing and mutual conversion. Use of individual types according to character of work. Work with editive level scope) using layers, DPI, colors. Basics of digital photography, scanning and computer technology like monitors and graphics. Corporate Information System In-knowledge, components of information system, syntatic and semantic sense of data, structure of corporate information system, pauction, storage, etc.), corporate information politic and information control, risks of information system operation, legal environment of state information system, information system security, data protection, safety politics. C Programming Language guage. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation, string Implementations of abstract data types (FIFO, LIFO, list), programming techniques (sorting, searching, recursion), using bitwise operation in the principles of working in a spreadsheet. Graphic layout of the table appearance, formatting of numbers, insertion of formula effection. Working with large spreadsheets, filters, advanced filters, database functions. Pivot tables and charts, conditional formatting, searching.	ng programs (with scards. KZ rticular information information syste KZ ng, files, structures orerators. KZ las and functions olution finding, so	2 n system m operatio 2 s and union 2 including liver, macro
14Y1PG Basic formats of g 14Y1PI Data-informatio (personalistic, prod 14Y1PJ C programming lan 14Y1PZ Students will be addressing, error de	Computer Graphics graphic and possibilities of their editing and mutual conversion. Use of individual types according to character of work. Work with editive level scope) using layers, DPI, colors. Basics of digital photography, scanning and computer technology like monitors and graphics. Corporate Information System In-knowledge, components of information system, syntatic and semantic sense of data, structure of corporate information system, pauction, storage, etc.), corporate information politic and information control, risks of information system operation, legal environment of state information system, information system security, data protection, safety politics. C Programming Language guage. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation, string Implementations of abstract data types (FIFO, LIFO, list), programming techniques (sorting, searching, recursion), using bitwise of Advanced Data Processing in Spreadsheets familiar with principles of working in a spreadsheet. Graphic layout of the table appearance, formatting of numbers, insertion of formula etection. Working with large spreadsheets, filters, advanced filters, database functions. Pivot tables and charts, conditional formatting, searching, searching	ng programs (with scards. KZ rticular informatio information syste KZ ng, files, structures orerators. KZ las and functions olution finding, so	2 n system m operation 2 s and union 2 including liver, macro

4.43/4115	F. F. CT MO.W. I	1/7	
14Y1UP Students will be in	Editing of Theses in MS Word troduced to the principles of creating and editing large documents and basic typographic rules. They will properly apply styles, creat	KZ te tables of conter	ts. lists of
	hs, etc. Footnotes, captions, index. They practice corrections of finished documents. The goal is to prepare students for seamless ed so that they are able to concentrate mainly on writing a thesis.		
14Y1VM	Development of Applications for Mobile Devices	KZ	2
Object oriented p	rogramming, Java programming language, development environment, operating system Android, development application - widgets, permissions, services, GUI.	containers, threa	ds, menu,
14Y1W1	Webdesign 1	KZ	2
	ا ne basics of communication HTTP, URL and addressing, markup languages HTML and XHTML, HTML tags, rules of web accessibility		1
and selectors,	the issue of web browsers, creating one to three column layout pages, sites validation, conditional comments. Topics will be practice	d on practical exa	mples.
14Y1W2	Webdesign 2	KZ	2
udents will learn a	dvanced techniques CSS, responsive webdesign, CSS frontends, content management systems, JavaScript, jQuery, SEO, web ser directives. Topics will be practiced on practical examples.	ver installation + o	onfiguratio
14Y1WG	Webdesign	KZ	2
	the basics of HTTP communication, URL and addressing, HTML5 markup language, advanced CSS3 techniques, accessible and u webdesign, content management systems, web server installation + configuration directives. The subject matter will be trained on e	xamples.	esponsive
14Y1ZJ	Fundamentals of programming in JAVA	KZ	2
	lava SE Platform. IDE Installation and First Project. Comments. Variables and Type System. Operators. User Input and Parsing. Chai		
Chain and Mathe	natical Methods. Terms. Relational Operators and Switches. Cycles for, while, foreach. Field - declaration, initialization, methods for f parameters, return value, recursion. Program creation.	ieid work. ASCII. i	-unctions,
14Y1ZM	Fundamentals of parametric and adaptive modeling	KZ	2
asics of work at pr	oducts and parts creation. Sketch drawing by help of geometric relations, parametric dimensions, creation of adaptive models from 2 from and to another systems. Fundamentals of assemblies creation.	D sketches. Impor	t and expo
15DPLG	Transportation Psychology	Z	2
	gy and its basic concepts. Information intake, decision-making and behaviour. Performance. Engineering psychology and vehicle const route and traffic conditions, accidents and traffic incidents. Selection and training of the staff. Work and leisure. Age as a factor in tra-	-	ical aspect
15JZ1A	Foreign Language - English 1	Z	3
	res and Style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and cor stylistics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles o		. Elementa
15JZ2A	Foreign Language - English 2	Z,ZK	3
	res and style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and cor	,	I .
	stylistics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles of		ı
15JZ3F	Foreign Language - French 3	Z	3
	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v		
ina perceptive and	features. Practice of oral and written presentation.	viti (professional)	toxt and it.
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 la		
nd perceptive and	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v features. Practice of oral and written presentation.	vith (professional)	text and it
15JZ3N	Foreign Language - German 3	Z	3
Grammar and stylis	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v	anguage structure	knowledge
15 I72D	features. Practice of oral and written presentation.	Z	2
15JZ3R	Foreign Language - Russian 3 stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		knowledge
•	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v	0 0	•
	features. Practice of oral and written presentation.	,	
15JZ3S	Foreign Language - Spanish 3	Z	3
	tics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la		_
nd perceptive and	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v features. Practice of oral and written presentation.	vith (professional)	text and it
		Z,ZK	3
15JZ4F	Foreign Language - French 4	•	knowledge
15JZ4F Grammar and stylis	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la	anguage structure	
15JZ4F trammar and stylise and perceptive and	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work values of oral and written presentation.	anguage structure vith (professional)	
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15X31S	Project 1 ITS	Z	2
15X313	Project 2 ITS	Z	2
15X33S	Project 3 ITS	Z	2
15Y1BO	Work Safety and Health Protection in Transportation	KZ	2
	lative, definition of terms, risks and possible health damage, working conditions and health protection with focus on transportation. He		
T diladillollal logic	health insurance of home and foreign business trips, statistics, working practice.	salar protocacir pr	ogrammoo,
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 Repu	ıblic", electric tract	
War II railways, railv	vay development in the 2nd half of 20th century, high-speed railway origins, railway lines closing, important long-distance train connection	ons, railway lines c	onstruction,
45)/4511	railway accidents, railway junctions. Excursions and projections.	177	
15Y1EH	European Integration within Historical Context formation of new states. Europe and the powers, League of Nations. European policy in the 1920s. Fascism, nacism, communism. Lit	KZ	2
-	ormation of new states. Europe and the powers, League of Nations. European policy in the 1920s. Pascism, nacism, communism. Lit or Hitler's getting to power, system of bilateral agreements. Decline of the LN. Rearrangement of powers during WWII. Cold war and it	-	-
godio. Zuropo ditt	New quality of French-German relationship - a driving power of starting European integration.	o ooooquoooo	ou.opo.
15Y1FD	French Area Studies and Transportation	KZ	2
	hy and regions, transport infrastructure. Paris and its sights, city public transport. Road traffic, motorways, railway traffic, TGV, air traffic	fic, specialised ter	minology.
Frer	nch society and culture. Current political system. System of education, studying in France. Selected authors of French literature. French	ch gastronomy.	
15Y1HD	History of City Mass Transport	KZ	2
	s transport in the world, development of tram, bus and trolley-bus systems. History of transport networks in the world, current trends a	•	of tariff and
	nce systems. History of city transport in Prague and Brno. History of tram, bus and trolley-bus operation systems in the Czech Repub		0
15Y1HE	Work Hygiene and Ergonomics in Traffic of occupational hygiene and ergonomics, and their application in transport. Working environment factors, and the influence of these f	KZ	2 f workers
_	of occupational hygierie and ergonomics, and their application in transport. Working environment factors, and the initiative of these r ction of working conditions that do not damage public health. Mutual links: man-machine-environment. Adaptation of technology to po		
orealier and prote	Practical examples from the field of transportation; relevant legislature.	oonsoo aa om	o or a mam
15Y1HL	History of Civil Aviation	KZ	2
	g, development of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of ai	rports in the Czec	h Republic.
World airports. Fa	amous aviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era of	aviation. Golden e	era of civil
. = >	aviation. Modern era of civil aviation. Airline companies. Supersonic flying.		
15Y1MK	Modern History in Context: Every Day Life and Transport	KZ	2
15Y1NE	Historical overview of modern history of every day life, science, technology and transport in a wider context.	KZ	2
_	German in the Economy and Society and social issues of German speaking countries and of the EU. Reading and listening of texts. Lexical, grammatical and semantic an		
rtocom comomic	selected topics.	aryolo or toxto. Dio	00001011 011
15Y1ZV	East-West dichotomy: Prelude to the Cold War	KZ	2
Historical prologue,	evolution of the "West" and "East" from the 1500s. Focus on the history in the period between 1850 nad 1950. Milestones and continuing	ty of the internation	nal relations
in the end of 19th	century and the beginning of the 20th century. Revolutions, the causes and consequences. Scientific and technological progress, the	causes and cons	equences.
100075	Economic and financial history. Social changes. Discussions on texts, sources.		
16DOTE	Transport Technology	7.71/	
		Z,ZK	6
Types of vehicles,	main features and principles. Construction and design elements, important legislation, testing. Drives and transmission, energy accur	mulation and char	iges. Road
Types of vehicles,		mulation and char	iges. Road
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Types of vehicles, vehicle dynamics (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	main features and principles. Construction and design elements, important legislation, testing. Drives and transmission, energy acculateral, transversal, vertical, driveability, suspension, wheel-road contact), mathematic solution of dynamic systems. Design features of safety. Vehicle Systems and Interaction with Driver Introduction into Vehicles cortation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water of transport. Lifting equipment and conveyors. Legislation. Project 1 ITS Project 2 ITS Project 3 ITS Energy Requirements of Vehicles driving inertial of the vehicles. Types of energy - kinetic, static, heat, chemical and others. Ways of energy change into kinetic energy, drive, steam engine, air engine. Energy accumulation means, accumulator, flywheel, fuel cell. Energy recuperation. WTW analysis of vehicle dynamics, on-land carriage in particular. Virtual reality systems. Practical exercise with simulation software and intera Quality and Reliability of Vehicles ility theory in design, development, production and operation of vehicles. Definition and possible approach to quality and reliability. Ke Analysis), QFD (Quality Function Deployment), DFx (Design for Assamly, Manufacturying, Quality, Services) and other methods us Knowledge-based systems of quality and reliability, data collection. Operation, Construction and Maintenance of Vehicles production. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measurements.	mulation and charpassive, active an Z,ZK Z transport. Alterna Z Z Z Z Combustion engivisis. KZ odels. Computing rective simulators. KZ ey legislation. FME sed in industrial ap KZ nt. Transmission n	ggs. Road d integrated 7 2 tive means 2 2 2 2 ne, electric 2 A (Failure opplications. 2 nechanism.
Types of vehicles, vehicle dynamics (IIII) 16SVIR 16UDOP Vehicles and trans 16X31S 16X32S 16X33S 16Y1EN Dynamics and the 16Y1IS Simulation theory Simulation theory Simulation theory Mode and Effects 16Y1PV Methods of vehicles 16Y1RE Elementary concep	main features and principles. Construction and design elements, important legislation, testing. Drives and transmission, energy acculateral, transversal, vertical, driveability, suspension, wheel-road contact), mathematic solution of dynamic systems. Design features of safety. Vehicle Systems and Interaction with Driver Introduction into Vehicles portation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water of transport. Lifting equipment and conveyors. Legislation. Project 1 ITS Project 2 ITS Project 3 ITS Energy Requirements of Vehicles driving inertial of the vehicles. Types of energy - kinetic, static, heat, chemical and others. Ways of energy change into kinetic energy, drive, steam engine, air engine. Energy accumulation means, accumulator, flywheel, fuel cell. Energy recuperation. WTW analysis of the vehicle dynamics, on-land carriage in particular. Virtual reality systems. Practical exercise with simulation software and intera Quality and Reliability of Vehicles lility theory in design, development, production and operation of vehicles. Definition and possible approach to quality and reliability. Ke Analysis), QFD (Quality Function Deployment), DFx (Design for Assamly, Manufacturying, Quality, Services) and other methods us Knowledge-based systems of quality and reliability, data collection. Operation, Construction and Maintenance of Vehicles production. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measureme General principles of engine diagnostics. Control and Electronic Vehicle Systems	mulation and charpassive, active an Z,ZK Z transport. Alterna Z Z Z Z Combustion engivisis. KZ odels. Computing rective simulators. KZ ey legislation. FME sed in industrial ap KZ nt. Transmission n KZ ntages, function. C	ges. Road d integrated 7 2 tive means 2 2 2 2 ne, electric 2 A (Failure oplications. 2 nechanism.

16Y1SO	Strategy and innovation in mobility	KZ	2		
Introduction to inr	novation, definition. Innovation strategy. Innovation life cycle and ecosystem, main sources and funding opportunities. Successful inno	vation project, KP	ls, budget;		
	ation. Sprint method and its use. Innovative business model - main patterns and examples, design, strategy, processes and outlook (I				
	of use). Creating an innovative business model - main patterns and examples, design, strategy, processes and outlook (ouslness plan and possibilities				
			_		
16Y1VT	Development in Railroad Vehicles	KZ	2		
Railroad vehicles	s traction. Railroad vehicle parametres regulation. Control and driving of railroad vehicles. Importance in heavy duty and personal trar	sportation. Critical	situation		
	assesment. New materials in design. International standardization.	·			
40)/470	-	1/7			
16Y1ZG	Introduction into Applied Computer Graphics	KZ	2		
Computer graphics	s, division and applications with emphasis on transport, including development and research. Colours, colour perception, colour sche	mes, models, princ	ciples of 2D		
and 3D generation	on, elementary algorithms for graphic data workout. Visualisation principles and tasks, technics, graphics and visualisation HW basic	s. Introduction to 2	D and 3D		
_	graphics software.				
40\/471		1/7	_		
16Y1ZL	Vehicle Testing, Legislation and Construction	KZ	2		
	otorbike costruction, aggregate computing, driving resistance, build and parameters of traction, constructional arrangement of personal c		motorbikes,		
legi	slation in the EU and in the world, technical legislation creation, testing methods, vehicle tests, accelerated tests, mathematical mode	elling in testing.			
17TEDL	Transport Technology and Logistics	KZ	3		
	sport technology and logistics, particular steps of transport planning, line planning, timetabling, planning in pasanger and freight tran				
each transport m	odus, technologic factors of the side of operator and client, organisation of city transport, logistic technologies and their aplication usi	ng various transpo	ort modus.		
17X31S	Project 1 ITS	Z	2		
	· · · · · · · · · · · · · · · · · · ·				
17X32S	Project 2 ITS	Z	2		
17X33S	Project 3 ITS	Z	2		
17Y1EV	Public Sector Economy	KZ	2		
Economic and final	ncial theory of public sector, public choice theory, externalites, decisions about public finance allocation, economic assesment of public	ic projects (CBA, N	MCA, CEA),		
tax system of the C	R, state budget, management of public projects a their economic efficiency assessment, way of elaboration of PPP projects, funding fro	om EU funds, progr	ram HDM-4.		
17Y1LL		KZ	2		
	Logistics of Passenger and Freight Air Transport		_		
Logistics airline pa	ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial trans	sport process pass	sengers and		
	air cargo. Information systems in air transport. Global distribution systems.				
17Y1MD	Marketing in Transportation	KZ	2		
	of marketing applied to transport issues, marketing tools suitable for transport as a service, specifics of public passenger transport a				
General principles		na the resulting all	ilerences in		
	the application of marketing.				
17Y10F	Personal Finance	KZ	2		
Personal finance (budget, financing of basic living needs), debt (loans and credits, payment instruments, interest and fees, debt trap), financing of hou	sing (rent. mortgag	e. savings.		
	financing), savings and investments (investment horizon, return, risk, investment strategy), insurance (insurance types, suitability and		- 1		
Consumer loans, re		adequacy), securii	ig the luture		
	(retirement savings and insurance).				
17Y1PM	Personnel Management	KZ	2		
Human sour	ces, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, inter	cultural communic	ation.		
17Y1SK	Urban and Regional Rail Transport Systems	KZ	2		
_	transport demand, modal-split, distribution of passenger flows on public regional transport lines. Optimization of line management, lin	-	-		
evaluation of the	e timetable. Vehicle circulation creation. Optimizing driver shifts and arranging them in turnus. Effects of barrier-free and public transp	ort preferences. Th	ne role of		
	marketing.				
17Y1SL	Sociology of Human Resources	KZ	2		
Human resources a	and their importance, work group as a special kind of social group, communication, personal management, modern management, hum	an resources plant	ning, culture		
	of the organization.				
17Y1ST	Titan Simulation	KZ	2		
	gement game simulating the business decisions. Lets 2-8 student groups to produce and compete in the market with the same produ				
		•			
determine the quar	ntity and capacity of production, plan budgets for marketing, research and development. They become familiar with the consequences	of their decisions	by the form		
	of financial corporate reports and they use this information for other business decisions.				
18MTY	Materials Science and Engineering	Z,ZK	3		
			'		
	terials science and engineering explains mechanical properties of structural materials based on their bonding forces and microstructu				
is paid to metals as	s the most important engineering materials, also other major classes of materials are presented, namely ceramics, polymers and con	iposites. Attention	is also paid		
	to degradation processes in materials, to defectoscopy and to main mechanical tests.				
18PZP	Elasticity and Strength	Z,ZK	3		
	ession. Bending of beam. Shear stress in bending of beam. Design and analysis of cross section of beam. Design of riveted, bolted a				
Terision and compi		ina weidea joints o	i structures.		
	Analysis of deflection curve of beams. Torsion of circular cross sections. Combined loading. Stability.				
18SAT	Structural Analysis	Z,ZK	4		
General system	of forces in plane and space. Calculation of reactions of bodies and structures. Assessment of internal forces on statically determinate	e beams and simp	le girders.		
1	vork. Kinematic method for calculation of reactions of statically determinate systems. Determination of axial forces in truss constructions.		·		
T Tillopic of Virtual V		Ologo Scotloriai on	aracteristics		
	of planar shapes. Fiber polygons and chains.				
18SPP	Seminary from Elasticity and Strength	Z	0		
Excersise for pract	ice. Tension and compression. Bending of beam. Shear stress during bending of beam. Design and analysis of cross section of bean	n. Analysis of defle	ction curve		
	of beam. Torsion of circle cross section. Combined loading. Stability of compressed bar and buckling.	•			
4000					
18SS	Seminary from Structural Analysis	Z	0		
Examples for pract	ise. General system of forces. Reactions of mass objects and compound systems. Internal forces on statically determinate beam and	simple framework.	. Application		
of principle of virtu	al works for calculation of reactions of staticaly determinate systems. Determination of axial forces in truss construction - method of j	oints and method	of sections.		
	Geometry of cross sections. Plane fiber polygons.				
10CTD		7	_		
18STD	Seminary from Technical Documentation	Z	0		
lechnical standa	rds, international standardization, technical drawings, representation of technical objects, technical diagrams and charts, dimensiona	and geometrical	accuracy,		
	arrangement of drawing sheets.				
18TED	Technical Documentation	KZ	2		
			' '		
recrinical standa	rds, international standardization, technical drawings, representation of technical objects, technical diagrams and charts, dimensional	ii and geometrical	accuracy,		
	arrangement of drawing sheets.				
18X31S	Project 1 ITS	Z	2		
	,	,			

18X32S	Project 2 ITS	Z	2
18X33S	Project 3 ITS	Z	2
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	•	
and biomechanics	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.	nan and his treath	nent. Human
18Y1EM	Experimental Methods in Mechanics	KZ	2
	ole of experimental mechanics. Sensors for mechanical testing. Overview of experimental methods. Destructive and non-destructive	1	_
	cedures 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		ntion is paid
	ogical materials and to biomimetics. Integral approach to material selection process is also demonstrated based on so called Ashby!		
18Y1PS	Computer Simulations in Mechanics	KZ	2
	rview of tools for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model developme stems. Assignment of material properties. The types of elements and their use. Discretization of solid model. Boundary conditions an	· ·	
ITOM OTHER CAL 39	tasks of structural and modal analysis. Introduction to complex nonlinear problems.	a application of the	e load. Dasic
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	1	
	tal running resistance. Acceleration force. Analyzing driving cycle rail vehicle. Speed-power diagrams and characteristics rail vehicle -		_
	and electric drive. Design concept rail vehicles and drive of wheel set.		
20APEL	Applied Electronics	KZ	2
	emiconductor components, their principles, characteristics and typical connection diagrams. Semiconductor PN junction diodes. Translations of the size	•	
amplifiers, basic i	ogic gates. Functions of basic electronic circuits and methods for their designs (rectifiers, voltage regulator with Zener diode, transist amplifier as an inverting and noninverting amplifier).	or as an amplifier,	operational
20ATEL	Applied Telematics	Z,ZK	7
	s - definition, benefits, ITS legislation, ITS organizations, ITS architecture and its practical use, data structures and data, geographic inf		1
	e-call, fleet management, check-in and information systems, ITS connection to Smart City, ITS applications on specific exam		.,
20ELKA	Qualification in Electrical Engineering	KZ	2
Practical experience	with measurements in laboratories, electrical equipment, power supply, electrical installation of low voltage, electric shock hazard,	symbols and labe	ling, nominal
voltage, maximum	allowed currents, electrical equipment protection against short circuit and overload protection, control and revision, first aid, legislating	on, standards and	l regulations
222121	in relation to health and safety and electrical engineering.		
20RISI	Road Traffic Control	Z,ZK	7
Traffic node manag	ement - basic concepts, SSZ design criteria, SSZ production project, dynamic SSZ management, public transport preferences, traffic a traffic models, macroscopic traffic models, traffic management on motorways, tunnel systems.	area management,	, microscopic
20RIZE	Railway Traffic Management	Z,ZK	7
	nent of security technology, external elements (switches, signals, detection means), station, track and crossing security equipment, ex	1	l .
	c control structure, traffic control technology, automation and traffic control optimization, power supply systems, energy calculations	-	
20SYSA	Systems Analysis	Z,ZK	5
	em sciences, system viewpoint, terminology, typical system analysis tasks, system identification, system interface and interface tasks		
and its analysis,	strong functions and processes, genetic code, system identity, system architecture. Tools for system analysis - Petri nets, decision ta	bles, algorithms fo	r structural
	tasks. Soft and hard systems, methods for soft system analysis.		
20TAMS	Telecommunications and Local Area Networks	Z,ZK	7
-	rrent state and introduction of the new trends in the development of telecommunication systems. The legal environment for the provision ned, basic telecommunication solutions in the hierarchical architecture of telecommunication networks are presented, and the links b		
301 VICC3 IS CAPIGII	parts and the performance of telecommunication systems.	ctween the param	icicio di tilo
20UITS	Introduction to Intelligent Transport Systems	Z,ZK	7
	gislative framework telematics systems and their architecture. Telematics systems in practice and their operation. Fundamentals of info	1	1
systems for ITS. Pr	inciples and technical support measurement of traffic data, localization and navigation. Practical work with traffic data. Real examples	s of possible applic	cations of the
	principles of ITS.		
20X31S	Project 1 ITS	Z	2
20X32S	Project 2 ITS	Z	2
20X33S	Project 3 ITS	Z	2
20Y1AE	Applied Electronics	KZ	2
	semiconductor components, their principles, characteristics and typical connection diagrams. Semiconductor PN junction diodes, tran		-
ampiitiers, basic l	ogic gates. Functions of basic electronic circuits and methods for their designs (rectifiers, voltage regulator with Zener diode, transist amplifier as an inverting and noninverting amplifier).	or as an amplifier,	operational
20Y1AF	Alternative Forms of Transportation Project Financing	KZ	2
	Alternative Forms of Hansportation Project Financing such forms of financing in transportation and telecomunications, where the public sector body perform the final debtor, i. e. debt payn	1	1
•	ot a direct participant of the transaction and it is not the counterparty of the financial institute which provides the funding. Issue of sec		•
	of transportation and telecomunication projects.		
20Y1EA	Environmental Aspects of Transport	KZ	2
·	ohere, weather observation network, weather in transportation, road meteorology. Weather forecasting, data assimilation, probabilistic		
• •	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, allowed currents, electrical equipment protection against short circuit and overload protection, control and revision, first aid, legislati	-	-
voitage, maximum	in relation to health and safety and electrical engineering.	on, stanuarus and	i regulatiOHS
	Station to House and outdry and obotion originooning.		

20Y1KP	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		
teamwork, emo	tional intelligence, manipulation and way of working with it, coping with stressful situations, formal requirements of presentations, way	's of communication	on during
	presentation, presentation skills, presentation skills in online environment.		
20Y1LN	Location and Navigation	KZ	2
Description and	examples of road networks, localization on the network. Routing algorithms, their properties and implementation. Description and exa	mples of datasets	for finding
00)/4.01	transport connections, routing algorithms, their properties and implementation.	1/7	
20Y1OI	Fare Collection and Information Systems	KZ	2
	ystems in public transport and their components (on-board units, validators, turnstiles,). Information systems and their components inels) and operators (cycles, location or current delay of vehicles,). The issue of tariff systems. Other examples of clearance systems.		ies, maps,
20Y1OK		KZ	2
	Road Lighting tities and terms, street lighting components (luminaires, control cabinets for street lighting, street lighting cables), characteristics of lumi		
	standards, measurement of illuminance and luminance in road lighting, tunnels, conceptual approach to street lighting design, lightin	,	
g a.o a	Relux, street lighting control systems.	9 04.04.4.0.0	ii izaii ana
20Y1PK	Product Quality Management Processes	KZ	2
	of organization management. Management systems and international standards; quality management systems. Quality products, pro		
of standards for sys	stems management, management principles. Principles of process management, monitoring and measurement systems management. U	niform framework	of standards
	for systems management. Process management principles. Metrology and testing. Product certification.		
20Y1SC	Sensors and Actuators	KZ	2
Principles of senso	rs and actuators. Basics of measuring theory and actuating influence. The respective technologies and construction principles. Sensors of	mechanical, electr	ro-magnetic,
	state (temperature, humidity), chemical and particle flow values. Electrical, pneumatic and hydraulic actuators and solid phase electrical, pneumatic and hydraulic actuators and solid phase electrical.		
20ZEKT	Fundamentals of Electrical Engineering	Z,ZK	4
	s, electrotechnical quantities (electrical current, voltage, resistance, conductivity, resistivity, conductivity, power, energy), Ohm's law, Ki		
	thods, DC and AC circuits, accumulators, photovoltaics), electric machines, transmission lines, reflections on transmission lines, basic	electrical measur	
21SLD	Seminar of Air Transport	Z	0
•	ions, terminology, basic rules. VFR / IFR. Basics of aerodynamics. Propulsion of aircraft. Aircraft design. Basics of navigation, radio na		
performance. File	ght planning, optimization of speed and heights, minimum fuel. Limitations of operation, maintenance, service life of aircraft. Traffic ma	nagement, ground	i nandling,
24.724.0	security. Air crew. Airlines and economics. Space technologies.	7	
21X31S	Project 1 ITS	Z	2
21X32S	Project 2 ITS	Z	2
21X33S	Project 3 ITS	Z	2
21Y1AM	Aeronautical Information Management (AIM)	KZ	2
	ic overview of AIS and AIM. Transition from AIS to AIM. Regulatory base. Provision of AIS/AIM in the Czech Rep. AIP (Aeronautical In		
the Ozech 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).	ropena AlS Dalab	ase). QIVIS
21Y1BS	Unmanned aircraft systems 1	KZ	2
	on Development. Aircraft design. Legislation in force in the Czech Republic. Planning and execution of the flight. Airspace division. Ope		
Ommaniou / Walle	procedures. Practical flights.	national field and	oporational
21Y1LJ	Aeronautical Radio and Flight Instruments	KZ	2
	istory of aircraft instrumentation, aerometric instrumentation, Earth magnetism, aircraft electric equipment, gyroscopic instrumentation	, airframe instrume	entation and
other aircra	aft equipment, engine instrumentation, warning and recording systems, instrumentation operational requirements, radiocommunication	n and radionavigat	tion.
21Y1LS	Air Traffic Services	KZ	2
Airspace structure	in Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, APP		story of ATS
	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
	abus is focused on the problem-solving during bachelor's thesis preparation and it is based on students' requests. Individual exercises oles, based on actual students' needs and suggestions. The subject will have a flexible form, which is expected to bring an improveme		- 1
21Y1OH	Airline Business and Operations	KZ	2
	All the business and Operations are comprehensive view of the commercial, operational and transportation activities of air transport companies. It focuses on the organizes are comprehensive view of the commercial, operational and transportation activities of air transport companies.		
	their strategy, economic and operational indicators. It introduces students in detail to operational processes and the essentials of transport		
•	a basic view of the economic aspects of air transport.	·	.
21Y1PC	ATC Procedures and Activities	KZ	2
	procedures, basics of communication and phraseology, aircraft identification, spacing and traffic coordination. In addition, the course	discusses air traffic	control at
the airpo	rts and low visibility operational procedures. Students will during the course learn basic safety management applications applied acro	ss the infrastructur	re.
21Y1RZ	Human Resources Management	KZ	2
The position of	human resources in the organization and related disciplines file. Substance, importance and challenges of human resources manage	ment. Internal and	external
environment of hur	man resource management. Human resource planning. Search, recruitment and selection of employees. Motivation, evaluation and rer	nuneration of staff.	Positioning,
	dismissal and redundancies of employees. Education of employees. Planning career management.		
21Y1SI	ATC Simulator	KZ	2
	with the simulation environment, acquiring basic habits, aircraft identification procedures, vectoring, level changes, ATC clearance, us	=	
exercises locusi	ng on basic vectoring, early application of vertical separation, EST and REV message passing. Practical exercises in the APPROACL departure management procedures, conflict resolution.	area, practicing a	irrivai and
21Y1UL	Aircraft Maintenance	KZ	2
	and technical operations. Maintenance and work processes. Defects search methods, status check diagnostic tools. Selection and qua		
J. G. C. OPOI GUOI IO			. 60.0011101.
			of director
	tion 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.		of director
Basic documenta	tion 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.	enance. Regulation	
Basic documenta	tion for maintenance. Optimization of time maintenance intervals. Regulation no. 1321/2014 Part 145. Human factors of aircraft maintenance	enance. Regulation	2
Basic documenta 21ZALD History, definitions,	tion 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	enance. Regulation KZ Weight, balance, p	2 erformance.
Basic documenta 21ZALD History, definitions,	tion 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.	enance. Regulation KZ Weight, balance, p	2 erformance.

22X32S	Project 2 ITS	Z	2
22X33S	Project 3 ITS	Z	2
23X31S	Project 1 ITS	Z	2
23X32S	Project 2 ITS	Z	2
23X33S	Project 3 ITS	Z	2
23Y1EH	Electronics and hardware in security of transportation	KZ	2
Types and param	eters of signals. Passive circuits, properties, basic measurements. Passive filters, semiconductors. Operational amplifiers, basic circu	ıits, parameters. A	ctive filters.
Power supplies. Lo	gic circuits. AD converters. Connection of analog and digital parts. Basic blocks of digital signal processing. Measurement processing. I	Design and fabrica	tion methods
	in electronics.		
23Y1KB	Cyber security in transportation	KZ	2
	security and cyber security, legal status in the field of cyber security, virtual cyberspace and communities, taxonomy of crimes in cyb		
	ng, cyber attack technology, information security, cyber attacks on telematics systems, security of systems with artificial intelligence,		
23Y1KM	Crisis Management	KZ	2
, ,	ame of crisis management with direction to Rescue system (IZS). After introduction to safety domain, there are terms and knowledge		sition of crisis
	gement and its targets; IZS-crisis management-crisis planning; and basic legislation. Practical part is concentrated to responsibility m	· · · · · · · · · · · · · · · · · · ·	
23Y1KO	Quantum Physics and Optoelectronics	KZ	2
20)/410/	Ground of quantum physics. Application of quantum physics in practice. Optoelectronics. Production of optoelectronics compor		
23Y1KY	Cybernality	KZ	2
	behavior on the computer network and computer systems. Cybernetic crime technology. Theory basis and models. Cyberterrorism. In		
23Y1MK	Crisis Situation Management in Critical Infrastructure	KZ	2
	critical infrastructute elements on all levels, their protection systems, responsibilities of particular agencies of the state administration	•	rnment, and
	responsibilities to anounce particular safety provisions. Physical and cyber protection of critical infrastructure with special attention to		
23Y1MU	Emergency Events Management Solution in Transport Infrastructure emergency events with emphasis of the transport infrastructure events and their solution management. Knowledge in the emergency pl	KZ	2
Basic solutions of 6	in liquidation work within the transport infrastructure.	aririirig ariu specia	ii procedures
23Y1OK	Protection of Critical Objects and Infrastructures	KZ	2
I .	ical systems, critical item, risks and their courses, criticality, vulnerability, connectivity, dependability, resilience, failure, protection, safe		
Types of teermolog	infrastructures.	ity of critical object	3 and ontion
23Y1TP	Criminal Law in IT and Transportation	KZ	2
_	iminal law into legal order, conception of culpability and criminal delict, consequency of other legal standards. international treaty and		- 1
	crime, specific indicia of criminal court cases, practical examples.	, ,	
23Y1VS	Negotiation and Cooperation	KZ	2
Code of conduct for	or negotiation. The influence of personality traits on the negotiations. Negotiation and commanding. Teamwork. Variants teams. Inform	al and formal role	in the team.
Principles of negot	iation, the essence of negotiation, the differences in negotiation in business and in crisis situations, the principle of "win both", specific	cations and biddin	g, the role of
	trust.		
TV-1	Physical Education	Z	1
TV-2	Physical Education	Z	1
TVKLV	Physical Education Course	Z	0
TVKZV	Physical Education Course	Z	0

For updated information see http://bilakniha.cvut.cz/en/FF.html Generated: day 2025-11-07, time 04:58.