Recomended pass through the study plan

Name of the pass:

Faculty/Institute/Others:

Department:

Pass through the study plan: Master Full-Time DS from 2024/25 Branch of study guranteed by the department: Welcome page

Guarantor of the study branch:

Program of study: Transportation Systems and Technology

Type of study: Follow-up master full-time

Note on the pass:

Coding of roles of courses and groups of courses:

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

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

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

Number of semester: 1

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
614GISS	Geographical Information Systems Zuzana Purkrábková, František Kekula	KZ	2	0P+2C+8B	Z	Z
618GAZ	Geomechanics and Foundation Engineering Vít Malinovský Vít Malinovský (Gar.)	Z,ZK	3	2P+1C	Z	Z
612IKD	Rail Transport Infrastructure Tomáš Javo ik	Z,ZK	5	2P+2C	Z	Z
615J2A1	Language - English 1 Karolina Beauxisová, Jan Feit	Z	2	0P+2C+10B	Z	Z
622MSV	Modelling and Vehicle Movement Simulation Drahomír Schmidt, Michal Frydrýn Michal Frydrýn Drahomír Schmidt (Gar.)	KZ	2	0P+2C	Z	Z
618TIK	Theory of Engineering Structures Ján Kopa ka Josef Kocourek (Gar.)	Z,ZK	4	2P+1C	Z	ZP
612TKVP	Highway Engineering Materials Otakar Vacín Otakar Vacín (Gar.)	Z,ZK	4	2P+2C	Z	Z
X2-NP-DS-24/25-DC	Projekty Mgr. prezen ní DS od 2024/25 622XN1,621XN1, (see the list of groups below)	Min. cours. 4 Max. cours. 4	Min/Max 13/13			ZP
1S-NP-DS-V1-24/25-DC	1. sem. Mgr. prezen ní DS výb r p edm tu od 2024/25 617DOPD,617TZND	Min. cours. 1 Max. cours. 1	Min/Max 4/4			Z
JZ-NP-DS-24/25-DC	Jazyky Mgr. prezen ní DS od 2024/25 615J2F1,615JBF2, (see the list of groups below)	Min. cours. 4 Max. cours. 4	Min/Max 8/8			J

Number of semester: 2

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
622AMMD	Measuring Methods Applied to Transportation	KZ	4	1P+3C	L	Z
615JBA2	Language - English 2	Z	2	0P+2C+10B	L	Z
612NAPI	Design and Maintenance of Transportation Structures	Z,ZK	4	2P+2C	L	Z
616PDP	Principles of Vehicle Design	ZK	2	2P+0C+8B	L	Z
612UMUP	Sustainable Mobility and Land - Use Planning	Z,ZK	5	2P+2C	L	ZP

612ZSUZ	Railway Stations and Centres	Z,ZK	3	2P+1C	L	Z
X2-NP-DS-24/25-DC	Projekty Mgr. prezen ní DS od 2024/25 622XN1,621XN1, (see the list of groups below)	Min. cours. 4 Max. cours. 4	Min/Max 13/13			ZP
2S-NP-DS-V1-24/25-DC	2. sem. Mgr. prezen ní DS výb r p edm tu od 2024/25 612BED,618TEAM	Min. cours. 1 Max. cours. 1	Min/Max 4/4			Z
JZ-NP-DS-24/25-DC	Jazyky Mgr. prezen ní DS od 2024/25 615J2F1,615JBF2, (see the list of groups below)	Min. cours. 4 Max. cours. 4	Min/Max 8/8			J
Y2-NP-DS-24/25-DC	PVP-B Mgr. prezen ní DS od 2024/25 612Y2KS,612Y2MD	Min. cours. 3 Max. cours. 3	Min/Max 6/6			PV

Number of semes						
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
612DAZP	Transport and Environment Tomáš Javo ík	Z,ZK	4	2P+1C	Z	Z
615JBA3	Language - English 3 Jan Feit	Z	2	0P+2C+10B	Z	Z
611STS	Stochastic Systems Ivan Nagy, Pavla Pecherková Ivan Nagy (Gar.)	Z,ZK	4	2P+2C+14B	Z	ZP
612TEAP	Theory of Road Traffic Operation Vladimír Faltus, Zuzana arská Vladimír Faltus (Gar.)	Z,ZK	7	3P+2C	Z	Z
612VRZ	High Speed Rail Transport Lukáš Týta, Martin Ráž Lukáš Týta (Gar.)	KZ	3	2P+0C	Z	Z
X2-NP-DS-24/25-DC	Projekty Mgr. prezen ní DS od 2024/25 622XN1,621XN1, (see the list of groups below)	Min. cours. 4 Max. cours. 4	Min/Max 13/13			ZP
3S-NP-DS-V1-25/26-DC	3. sem. Mgr. prezen ní DS výb r p edm tu od 2025/26 612/DOS,616STK	Min. cours. 1 Max. cours.	Min/Max 3/3			Z
JZ-NP-DS-24/25-DC	Jazyky Mgr. prezen ní DS od 2024/25 615J2F1,615JBF2, (see the list of groups below)	Min. cours. 4 Max. cours. 4	Min/Max 8/8			J
Y2-NP-DS-24/25-DC	PVP-B Mgr. prezen ní DS od 2024/25 612Y2KS,612Y2MD	Min. cours. 3 Max. cours. 3	Min/Max 6/6			PV

Number of semester: 4

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
615JBA4	Language - English 4	ZK	2	0P+2C+10B	L	Z

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			Min. cours.				
	XD-NP-DS-25/26-DC	DP Mgr. prezen ní DS od od 2025/26	1	Min/Max		7	
	VD-IAL-D2-520/50-DC	611XNDD,612XNDD, (see the list of groups below)	Max. cours.	18/18			
			1				
Ì			Min. cours.				1
	X2-NP-DS-24/25-DC Projekty Mgr. prezen ní DS od 2024/25	4	Min/Max		70		
	X2-NP-DS-24/25-DC	622XN1,621XN1, (see the list of groups below)	Max. cours.	13/13		ZP	
			4				
Ì			Min. cours.				1
	17 ND DC 24/25 DC	Jazyky Mgr. prezen ní DS od 2024/25	4	Min/Max			
	JZ-NP-DS-24/25-DC	615J2F1,615JBF2, (see the list of groups below)	Max. cours.	8/8		J	
			4				

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

Kód		group (for specific	ip of courses an cation see here	d codes of members of this or below the list of courses	S Com	pletion	Credit	s Scope	Semester	Role
					Min.	cours.	NA: /NA -			
1S-NP-DS-	-V1-24/25-DC	1 sem Mar ni	rezen ní DS výh	rp edm tu od 2024/25		1	Min/Ma	ıx		z
		1. Sciii. Mgi. pi	CZCII III DO VYK	7 p cam ta oa 202-720	Max	cours.	4/4			_
						1				
S17DOPD	Transporta	tion Planning and Mode.	617TZND	Technology of Railway Transport						
				, , ,	Min	cours.				
						1	N/1: /N/1			
2S-NP-DS-	-V1-24/25-DC	2. sem. Mar. pi	rezen ní DS výb	rp edm tu od 2024/25		•	Min/Ma	IX		z
				. р саш са са се исе	Max	cours.	4/4			
						1				
12BED	Road Safe	ty Audit	618TEAM	Theoretical and Applied Mechani	C		1		I	
	1		•	-	Min.	cours.				
						1	Min/Ma			
3S-NP-DS-	-V1-25/26-DC	3. sem. Mar. pi	rezen ní DS výb	r p edm tu od 2025/26		-	-	14		z
			- · , ·	•	Max	cours.	3/3			
						1				
12IDOS	Integrated	Transport Systems	616STK	Simulation and Testing of Vehicl .			1			
	•		•	•	Min.	cours.				
						4	Min/Ma	ı X		
JZ-NP-DS	S-24/25-DC	Jazyk	y Mgr. prezen n	ıí DS od 2024/25		-	8/8	`^		J
					IVIAX	cours.	0/0			
					IVIAX	4				
	Language		615JBF2	Language - French 2	IVIAX	4 615JBF3	B [1	_anguage - Fi		
15JBF4	Language	- French 4	615J2I1	Language - Italian 1	IVIAX	4 615JBF3 615JBI2	B 1	_anguage - Ita	alian 2	
15JBF4 15JBI3	Language Language	- French 4 - Italian 3	615J2l1 615JBl4	Language - Italian 1 Language - Italian 4	IVIAX	4 615JBF3 615JBI2 615J2N1	B 1	_anguage - Ita _anguage - G	alian 2 erman 1	
615J2F1 615JBF4 615JBI3 615JBN2	Language Language Language	- French 4 - Italian 3 - German 2	615J2I1 615JBI4 615JBN3	Language - Italian 1 Language - Italian 4 Language - German 3	IVIGA	4 615JBF3 615JBI2 615J2N1 615JBN4	3 1 1 1 4 1	_anguage - Ita _anguage - G _anguage - G	alian 2 erman 1 erman 4	
15JBF4 15JBI3 15JBN2 15J2R1	Language Language Language Language	- French 4 - Italian 3 - German 2 - Russian 1	615J2I1 615JBI4 615JBN3 615JBR2	Language - Italian 1 Language - Italian 4 Language - German 3 Language - Russian 2	IVIGA	4 615JBF3 615JBI2 615J2N1 615JBN4 615JBR3	3 1 1 1 1 1 1 1 1 1	_anguage - Ita _anguage - G _anguage - G _anguage - R	erman 1 erman 4 ussian 3	
15JBF4 15JBI3 15JBN2 15J2R1 15JBR4	Language Language Language Language Language	- French 4 - Italian 3 - German 2 - Russian 1 - Russian 4	615J2I1 615JBI4 615JBN3	Language - Italian 1 Language - Italian 4 Language - German 3 Language - Russian 2 Language - Spanish 1	IVIGA	4 615JBF3 615JBI2 615J2N1 615JBN4	3 1 1 1 1 1 1 1 1 1	_anguage - Ita _anguage - G _anguage - G	erman 1 erman 4 ussian 3	
615JBF4 615JBI3	Language Language Language Language Language	- French 4 - Italian 3 - German 2 - Russian 1	615J2I1 615JBI4 615JBN3 615JBR2 615J2S1	Language - Italian 1 Language - Italian 4 Language - German 3 Language - Russian 2		4 615JBF3 615JBI2 615J2N1 615JBN4 615JBS2	3 1 1 1 1 1 1 1 1 1	_anguage - Ita _anguage - G _anguage - G _anguage - R	erman 1 erman 4 ussian 3	
15JBF4 15JBI3 15JBN2 15J2R1 15JBR4	Language Language Language Language Language	- French 4 - Italian 3 - German 2 - Russian 1 - Russian 4	615J2I1 615JBI4 615JBN3 615JBR2 615J2S1	Language - Italian 1 Language - Italian 4 Language - German 3 Language - Russian 2 Language - Spanish 1		4 615JBF3 615JBI2 615J2N1 615JBN2 615JBS2 Cours.	3 1 1 1 1 1 1 1 1 1	_anguage - Ita _anguage - G _anguage - G _anguage - R _anguage - S	erman 1 erman 4 ussian 3	
15JBF4 15JBI3 15JBN2 15J2R1 15JBR4 15JBS3	Language Language Language Language Language	- French 4 - Italian 3 - German 2 - Russian 1 - Russian 4 - Spanish 3	615J2I1 615JBI4 615JBN3 615JBR2 615J2S1 615JBS4	Language - Italian 1 Language - Italian 4 Language - German 3 Language - Russian 2 Language - Spanish 1 Language - Spanish 4	Min.	4 615JBF3 615JBI2 615J2N1 615JBN3 615JBS3 Cours.	Min/Ma	anguage - Ita anguage - G anguage - G anguage - R anguage - S	erman 1 erman 4 ussian 3	ZP
15JBF4 15JBI3 15JBN2 15J2R1 15JBR4 15JBS3	Language Language Language Language Language Language Language	- French 4 - Italian 3 - German 2 - Russian 1 - Russian 4 - Spanish 3	615J2I1 615JBI4 615JBN3 615JBR2 615J2S1 615JBS4	Language - Italian 1 Language - Italian 4 Language - German 3 Language - Russian 2 Language - Spanish 1	Min.	4 615JBF3 615JBI2 615J2N1 615JBN2 615JBS2 Cours.	3 1 1 1 1 1 1 1 1 1	anguage - Ita anguage - G anguage - G anguage - R anguage - S	erman 1 erman 4 ussian 3	ZP
15JBF4 15JBI3 15JBN2 15J2R1 15JBR4 15JBS3	Language Language Language Language Language Language Language	- French 4 - Italian 3 - German 2 - Russian 1 - Russian 4 - Spanish 3	615J2I1 615JBI4 615JBN3 615JBR2 615J2S1 615JBS4	Language - Italian 1 Language - Italian 4 Language - German 3 Language - Russian 2 Language - Spanish 1 Language - Spanish 4	Min.	4 615JBF3 615JBI2 615J2N1 615JBN3 615JBS3 Cours.	Min/Ma	anguage - Ita anguage - G anguage - G anguage - R anguage - S	erman 1 erman 4 ussian 3	ZP
i15JBF4 i15JBI3 i15JBN2 i15JZR1 i15JBR4 i15JBS3	Language Language Language Language Language Language Language	- French 4 - Italian 3 - German 2 - Russian 1 - Russian 4 - Spanish 3	615J2I1 615JBI4 615JBN3 615JBR2 615J2S1 615JBS4	Language - Italian 1 Language - Italian 4 Language - German 3 Language - Russian 2 Language - Spanish 1 Language - Spanish 4	Min.	4 615JBF3 615JB12 615J2N1 615JBN4 615JBR3 615JBS2 Cours. 4	Min/Ma	anguage - Ita anguage - G anguage - G anguage - R anguage - S	alian 2 erman 1 erman 4 ussian 3 panish 2	ZP
15JBF4 15JBI3 15JBN2 15J2R1 15JBR4 15JBS3 X2-NP-D\$	Language Language Language Language Language Language Language S-24/25-DC	- French 4 - Italian 3 - German 2 - Russian 1 - Russian 4 - Spanish 3 Projekt	615J2I1 615JBI4 615JBN3 615JBR2 615J2S1 615JBS4 ty Mgr. prezen	Language - Italian 1 Language - Italian 4 Language - German 3 Language - Russian 2 Language - Spanish 1 Language - Spanish 4 ní DS od 2024/25	Min.	4 615JBF3 615JBI2 615J2N1 615JBN4 615JBS2 615JBS2 Cours. 4	Min/Ma	anguage - Iti anguage - G anguage - G anguage - G anguage - R anguage - S	alian 2 erman 1 erman 4 ussian 3 panish 2	ZP
15JBF4 15JBI3 15JBN2 15J2R1 15JBR4 15JBS3 X2-NP-D \$ 22XN1 11XN1 20XN1	Language Language Language Language Language Language Language Master Pro	- French 4 - Italian 3 - German 2 - Russian 1 - Russian 4 - Spanish 3 Projekt	615J2I1 615JBI4 615JBN3 615JBR2 615J2S1 615JBS4 ty Mgr. prezen 1 621XN1 617XN1 618XN1	Language - Italian 1 Language - Italian 4 Language - German 3 Language - Russian 2 Language - Spanish 1 Language - Spanish 4 ní DS od 2024/25 Master Project 1 Master Project 1 Master Project 1	Min.	4 615JBF3 615JBI2 615J2N1 615JBN4 615JBR3 615JBS2 COURS. 4 614XN1 614XN1 612XN1 616XN1	Min/Ma	anguage - Italianguage - Granguage - Granguage - Granguage - Ranguage - Sranguage - Srangu	alian 2 erman 1 erman 4 ussian 3 panish 2 t 1 t 1 t 1	ZP
15JBF4 15JBI3 15JBN2 15J2R1 15JBR4 15JBS3 X2-NP-D \$ 22XN1 11XN1 20XN1 15XN1	Language Language Language Language Language Language Language Master Pro	- French 4 - Italian 3 - German 2 - Russian 1 - Russian 4 - Spanish 3 Projekt pject 1 pject 1 pject 1 pject 1	615J2I1 615JBI4 615JBN3 615JBR2 615J2S1 615JBS4 ty Mgr. prezen 1 621XN1 617XN1 618XN1 616XN2	Language - Italian 1 Language - Italian 4 Language - German 3 Language - Russian 2 Language - Spanish 1 Language - Spanish 4 ní DS od 2024/25 Master Project 1 Master Project 1 Master Project 1 Master Project 1 Master Project 2	Min.	4 615JBF3 615JBI2 615J2N1 615JBN4 615JBR3 615JBS2 COURS. 4 614XN1 612XN1 615XN1 615XN2	Min/Ma 13/13	Anguage - Italianguage - Granguage - Granguage - Granguage - Spanguage - Spang	alian 2 erman 1 erman 4 ussian 3 panish 2 t 1 t 1 t 1 t 1 t 1	ZP
15JBF4 15JBI3 15JBN2 15JZR1 15JBR4 15JBS3 X2-NP-D \$ 22XN1 11XN1 20XN1 15XN1 22XN2	Language Language Language Language Language Language Language Master Pro	- French 4 - Italian 3 - German 2 - Russian 1 - Russian 4 - Spanish 3 Projekt pject 1 pject 1 pject 1 pject 1 pject 1 pject 1 pject 2	615J2I1 615JBI4 615JBN3 615JBR2 615J2S1 615JBS4 ty Mgr. prezen 1 621XN1 617XN1 618XN1 616XN2 614XN2	Language - Italian 1 Language - Italian 4 Language - German 3 Language - Russian 2 Language - Spanish 1 Language - Spanish 4 ní DS od 2024/25 Master Project 1 Master Project 1 Master Project 1 Master Project 2 Master Project 2	Min.	4 615JBF3 615JB12 615J2N1 615JBN4 615JBR3 615JBS2 COURS. 4 614XN1 612XN1 615XN2 615XN2 615ZN1	Min/Ma 13/13	Aanguage - Ita- Aanguage - G Aanguage - G Aanguage - R Aanguage - S Aa	alian 2 erman 1 erman 4 ussian 3 panish 2 t 1 t 1 t 1 t 1 t 2 t 2	ZP
15JBF4 15JBI3 15JBN2 15J2R1 15JBR4 15JBS3 X2-NP-D \$ 22XN1 11XN1 20XN1 15XN1 22XN2 11XN2	Language Language Language Language Language Language Language Language Master Pro	- French 4 - Italian 3 - German 2 - Russian 1 - Russian 4 - Spanish 3 Projekt Dject 1 Dject 1 Dject 1 Dject 1 Dject 1 Dject 2 Dject 2	615J2I1 615JBI4 615JBN3 615JBR2 615J2S1 615JBS4 ty Mgr. prezen I	Language - Italian 1 Language - Italian 4 Language - German 3 Language - Russian 2 Language - Spanish 1 Language - Spanish 4 ní DS od 2024/25 Master Project 1 Master Project 1 Master Project 1 Master Project 2 Master Project 2 Master Project 2	Min.	4 615JBF3 615JBI2 615J2N1 615JBN4 615JBR3 615JBS2 COURS. 4 614XN1 612XN1 615XN2 615XN2 615ZN1 615XN2 615ZN1 615XN2	Min/Ma	Aanguage - Ita- Aanguage - G Aanguage - G Aanguage - R Aanguage - S Aa	alian 2 erman 1 erman 4 ussian 3 panish 2 t 1 t 1 t 1 t 1 t 2 t 2 t 2	ZP
15JBF4 15JBI3 15JBN2 15J2R1 15JBR4 15JBS3 X2-NP-D \$ 22XN1 11XN1 20XN1 15XN1 22XN2 11XN2 20XN2	Language Language Language Language Language Language Language Language Master Pro	- French 4 - Italian 3 - German 2 - Russian 1 - Russian 4 - Spanish 3 Projekt Dject 1 Dject 1 Dject 1 Dject 1 Dject 2 Dject 2 Dject 2	615J2I1 615JBI4 615JBN3 615JBR2 615J2S1 615JBS4 ty Mgr. prezen I 621XN1 617XN1 618XN1 616XN2 614XN2 621XN2 618XN2	Language - Italian 1 Language - Italian 4 Language - German 3 Language - Russian 2 Language - Spanish 1 Language - Spanish 4 ní DS od 2024/25 Master Project 1 Master Project 1 Master Project 1 Master Project 2	Min.	4 615JBF3 615JBI2 615J2N1 615JBN4 615JBR3 615JBS2 COURS. 4 614XN1 612XN1 615XN2 615XN2 615ZN1 615XN2 615ZN1 615XN2 615ZN1	Min/Ma 13/13	Aanguage - Iti- Aanguage - G Aanguage - G Aanguage - R Aanguage - S Aa	alian 2 erman 1 erman 4 ussian 3 panish 2 t 1 t 1 t 1 t 1 t 2 t 2 t 2 t 3	ZP
15JBF4 15JBI3 15JBN2 15JZR1 15JBR4 15JBS3 X2-NP-DS 22XN1 11XN1 20XN1 15XN1 22XN2 11XN2 20XN2 17XN3	Language Language Language Language Language Language Language Language Master Pro	- French 4 - Italian 3 - German 2 - Russian 1 - Russian 4 - Spanish 3 Projekt Dject 1 Dject 1 Dject 1 Dject 1 Dject 2 Dject 2 Dject 2 Dject 2 Dject 3	615J2I1 615JBI4 615JBN3 615JBR2 615J2S1 615JBS4 ty Mgr. prezen II 621XN1 617XN1 618XN1 616XN2 614XN2 621XN2 618XN2 618XN2 616XN3	Language - Italian 1 Language - Italian 4 Language - German 3 Language - Russian 2 Language - Spanish 1 Language - Spanish 4 ní DS od 2024/25 Master Project 1 Master Project 1 Master Project 1 Master Project 2 Master Project 3	Min.	4 615JBF3 615JBI2 615J2N1 615JBN4 615JBR3 615JBS2 COURS. 4 614XN1 612XN1 615XN2 612XN2 617XN2 618XN3 612XN3	Min/Ma 13/13	Anguage - Italianguage - Ganguage - Ganguage - Ranguage - Ranguage - Sanguage	alian 2 erman 1 erman 4 ussian 3 panish 2 t 1 t 1 t 1 t 1 t 2 t 2 t 2 t 3 t 3	ZP
15JBF4 15JBI3 15JBN2 15J2R1 15JBR4 15JBS3 X2-NP-D \$ 22XN1 11XN1 20XN1 15XN1 22XN2 11XN2 20XN2 17XN3 11XN3	Language Language Language Language Language Language Language Language Master Pro	- French 4 - Italian 3 - German 2 - Russian 1 - Russian 4 - Spanish 3 Projekt Dject 1 Dject 1 Dject 1 Dject 1 Dject 2 Dject 2 Dject 2 Dject 3 Dject 3 Dject 3	615J2I1 615JBI4 615JBN3 615JBR2 615JBS4 615JBS4 ty Mgr. prezen II 621XN1 617XN1 618XN1 616XN2 614XN2 621XN2 618XN2 616XN3 614XN3	Language - Italian 1 Language - Italian 4 Language - German 3 Language - Russian 2 Language - Spanish 1 Language - Spanish 4 ní DS od 2024/25 Master Project 1 Master Project 1 Master Project 1 Master Project 2 Master Project 2 Master Project 2 Master Project 2 Master Project 3 Master Project 3 Master Project 3	Min.	4 615JBF3 615JBI2 615J2N1 615JBN4 615JBR3 615JBS2 COURS. 4 614XN1 612XN1 615XN2 612XN2 617XN2 618XN3 612XN3 622XN3	Min/Ma 13/13	Master Project	alian 2 erman 1 erman 4 ussian 3 panish 2 t 1 t 1 t 1 t 1 t 2 t 2 t 2 t 3 t 3 t 3	ZP
615JBF4 615JBI3 615JBN2 615JZR1 615JBR4 615JBS3	Language Language Language Language Language Language Language Language Master Pro	- French 4 - Italian 3 - German 2 - Russian 1 - Russian 4 - Spanish 3 Projekt Dject 1 Dject 1 Dject 1 Dject 2 Dject 2 Dject 2 Dject 3 Dject 3 Dject 3 Dject 3 Dject 3	615J2I1 615JBI4 615JBN3 615JBR2 615J2S1 615JBS4 ty Mgr. prezen II 621XN1 617XN1 618XN1 616XN2 614XN2 621XN2 618XN2 618XN2 616XN3	Language - Italian 1 Language - Italian 4 Language - German 3 Language - Russian 2 Language - Spanish 1 Language - Spanish 4 ní DS od 2024/25 Master Project 1 Master Project 1 Master Project 1 Master Project 2 Master Project 3	Min.	4 615JBF3 615JBI2 615J2N1 615JBN4 615JBR3 615JBS2 COURS. 4 614XN1 612XN1 615XN2 612XN2 617XN2 618XN3 612XN3	Min/Ma 13/13	Anguage - Italianguage - Ganguage - Ganguage - Ranguage - Ranguage - Sanguage	alian 2 erman 1 erman 4 ussian 3 panish 2 t 1 t 1 t 1 t 2 t 2 t 2 t 3 t 3 t 3 t 3	ZP

612Y2KS	Rail Transp	ort in Settlements an	612Y2MD	Methods of Traffic Regulation an						
Y2-NP-DS-				í DS od 2024/25	Max	cours. 3 . cours. 3	Min/M : 6/6	ax		PV
622XNDD	Master The	esis for study programm								
618XNDD	Master The	esis for study programm	620XNDD	Master Thesis for study programm		621XND	D	Master Thesis	for study prog	gramm
615XNDD	Master The	esis for study programm	616XNDD	Master Thesis for study programm		617XND	NDD Master Thesis for study program		gramm	
611XNDD	Master The	esis for study programm	612XNDD	Master Thesis for study programm 614XNDD		Ď	Master Thesis for study programm.		gramm	
XD-NP-DS-	25/26-DC	DP Mgr. p	rezen ní DS	S od od 2025/26		cours. 1 . cours. 1	Min/M : 18/18			z
622XN4	Master Pro	ject 4		·		•				
620XN4	Master Pro	ject 4	611XN4	Master Project 4		617XN4		Master Project	t 4	

List of courses of this pass:

Code	Name of the course	Completion	Credits
611STS	Stochastic Systems	Z,ZK	4
The subject deal	s with the problems of mathematical modelling of dynamical systems, estimation od these models and their utilization for prediction.	The results are illus	strated on
practical tra	ansportation tasks. Mathematical theory roots from probability and mathematical statistics and they use the methods of the Bayesian	probabilistic appro	ach.
611XN1	Master Project 1	Z	2
611XN2	Master Project 2	Z	2
611XN3	Master Project 3	Z	1
611XN4	Master Project 4	Z	8
611XNDD	Master Thesis for study programme DS	Z	18
612BED	Road Safety Audit	Z,ZK	4
	cations of safety assessments (especially Road Safety Audit, Road Safety Inspection) during the process of preparations, and of the p		
• • • • • • • • • • • • • • • • • • • •	Id minimize traffic accident risks for all those who take part in road traffic. Application of European Directive 2008/96/EC on road safe		
612DAZP	Transport and Environment	Z.ZK	4
	he impact of transport on environment. The accent is put mainly on noise and vibration, emission, barrier effect and energy demands.	1 '	
This course aims ti	parcel of this course.	The holse measury	/ is part ari
612IDOS	Integrated Transport Systems	ZK	3
	integrated transport systems, principle of integration, dividing of integration methods, traffic, infrastructure, technical, organiza	1	_
rtodoorio ioi baile	tariff, sales systems, information systems, marketing of system, examples of non-integration.	alonal motriodo, inte	ogradion of
612IKD	Rail Transport Infrastructure	Z.ZK	5
	lateral acceleration, parameters eduction for transition curve and cant transition, curves without straight, track spacing change. Track det	1 '	1
Tron compensator	design, slab track. Tram-train. Interoperability. Noise precautions. Railway line modernization for non-tilting and tilting trains		, abou aotar
612NAPI	Design and Maintenance of Transportation Structures	Z,ZK	4
-	truction of cement-concrete pavements and their maintenance. Construction of bridge objects, examples and choice of bridge construction of bridge objects, examples and choice of bridge construction of bridge objects.		1
Doolgin and conto	and operation of tunnels.	dollori matorialo. Ot	710000001
612TEAP	Theory of Road Traffic Operation	Z.ZK	7
	ers and their measurement, acquisition and processing. Road capacity analysis. Theoretical foundations and applications of mathematics.	_,	
	icroscopic traffic models. Theory of traffic management. Traffic light signals, roundabouts, coordination, public transport priority. Urbai		
	Traffic excesses management. Road assessment and maintenance methods. Health risks assessment.		-9
612TKVP	Highway Engineering Materials	Z,ZK	4
	d construction - Material Aspects. The course emphasizes the development of road construction from the beginning of the 20th centu		
, , , , , , , , , , , , , , , , , , , ,	materials, understanding the production and placing of asphalt mixtures.	, ,	J .
612UMUP	Sustainable Mobility and Land - Use Planning	Z.ZK	5
	- objectives and tasks, development over time. Land-use planning tools. SUMP. Territorial and transport planning context. Ways of urb	,	
	inciples of the transport solution. The impact of transport on the size and shape of the city, on the development of the street and the s	•	
	for pedestrian and bicycle transport. Suburbanization and transport. City economics.		
612VRZ	High Speed Rail Transport	KZ	3
	(HSR) transport characteristics and position in transportation system. Types / models of HSR systems, preparation of high speed rail		
	s. Non-adhesion HSR systems. City and region traffic service by HSR. HSR operating points. HSR worldwide network. HSR routing a		
•	of HSR track construction and layout track parameteres.	·	-
612XN1	Master Project 1	Z	2
612XN2	Master Project 2	Z	2
612XN3	Master Project 3	Z	1
612XN4	,	Z	8
0127114	Master Project 4		0

612XNDD 612Y2KS	Moster Thesis for study programme DC	Z	18
	Master Thesis for study programme DS	KZ	2
	Rail Transport in Settlements and Regions In development of railway infrastructure in Czech Republic. Arrangement of railway networks and junctions. Suburban railway services		_
	ation of metro systems. Network configuration and operation of tram systems. Special thematic lectures (rail transport in selected cour		diation and
612Y2MD	Methods of Traffic Regulation and Prediction	KZ	2
	prognosis, traffic prognosis for large area (calculation of future traffic volumes, calculation of future traffic volumes between areas (ana	logical and synthe	1
	modal split, traffic distribution to road network). Shock wave in traffic flow. Service levels and their traffic volumes. Acceleration r	oise.	
612ZSUZ	Railway Stations and Centres	Z,ZK	3
Equipment for pass	senger transport. Platform construction. Access roads to platforms. Modification of railway stations according to the TSI PRM. Station h	-	iant solutions
	of station heads for current ride. Junction stations. Crossing stations. Passenger stations. Moving stations. Public transport term		_
614GISS	Geographical Information Systems	KZ	2
	n of saving format of space-oriented information land-survey and cartography minimum basic tasks of spatial operations principles of		
614XN1	Master Project 1	Z	2
614XN2	Master Project 2	Z	2
614XN3	Master Project 3	Z	1
614XN4	Master Project 4	Z	8
614XNDD	Master Thesis for study programme DS	Z	18
615J2A1	Language - English 1	Z	2
	ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,		_
technical text conte	ent, structuring presentations and meeting minutes, elementary rhetorics of English and practical application, formal and technical reg	isters and their u	se, language
615J2F1	of management. Language - French 1	Z	2
	Language - French 1 ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,		
	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec		•
	language of management.	. 5 5	,
615J2I1	Language - Italian 1	Z	2
Grammatical Struc	ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	feedback skills, s	summarising
technical text conto	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec	hnical registers a	and their use,
	language of management.		
615J2N1	Language - German 1	Z	2
	ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,		_
technical text conti	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec language of management.	nnicai registers a	and their use,
615J2R1	Language - Russian 1	Z	2
	tures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	_	_
	states and otyle. Objection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	teedhack skills of	summarisina
	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec		_
teeriniear text conta	ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec language of management.		_
615J2S1	language of management.		_
615J2S1		hnical registers a	and their use,
615J2S1 Grammatical Struc	language of management. Language - Spanish 1 ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec	hnical registers a Z feedback skills, s	and their use, 2 summarising
615J2S1 Grammatical Structechnical text conte	language of management. Language - Spanish 1 ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tecleration language of management.	hnical registers a Z feedback skills, s hnical registers a	2 summarising and their use,
615J2S1 Grammatical Structechnical text control	language of management. Language - Spanish 1 ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tecler language of management. Language - English 2	hnical registers a Z feedback skills, s hnical registers a	2 summarising and their use,
615J2S1 Grammatical Structechnical text control 615JBA2 Grammatical Structechnical Structechnical	language of management. Language - Spanish 1 ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technique of management. Language - English 2 ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	hnical registers a Z feedback skills, s hnical registers a Z feedback skills, s	2 summarising and their use, 2 summarising and their use, 2 summarising
615J2S1 Grammatical Structechnical text control 615JBA2 Grammatical Structechnical Structechnical	language of management. Language - Spanish 1 ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical generation of management. Language - English 2 ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, ent, structuring presentations and meeting minutes, elementary rhetorics of English and practical application, formal and technical reg	hnical registers a Z feedback skills, s hnical registers a Z feedback skills, s	2 summarising and their use, 2 summarising and their use, 2 summarising
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615J2S1 Grammatical Structechnical text contections 615JBA2 Grammatical Structechnical text contections 615JBA3 Grammatical structechnical st	language of management. Language - Spanish 1 ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical graphs of management. Language - English 2 ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, ent, structuring presentations and meeting minutes, elementary rhetorics of English and practical application, formal and technical regord management. Language - English 3 ctures and style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	hnical registers a Z feedback skills, s hnical registers a Z feedback skills, s isters and their u Z feedback skills, s	2 summarising and their use, 2 summarising 2 summarising use, language 2 summarising use, language
615J2S1 Grammatical Structechnical text contections 615JBA2 Grammatical Structechnical text contections 615JBA3 Grammatical structechnical st	language of management. Language - Spanish 1 ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, ent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical enguage of management. Language - English 2 ctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, ent, structuring presentations and meeting minutes, elementary rhetorics of English and practical application, formal and technical regord management. Language - English 3	hnical registers a Z feedback skills, s hnical registers a Z feedback skills, s isters and their u Z feedback skills, s	2 summarising and their use, 2 summarising 2 summarising use, language 2 summarising use, language
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617XN4	Master Project 4	Z	8
617XNDD	Master Thesis for study programme DS	Z	18
618GAZ	Geomechanics and Foundation Engineering	Z,ZK	3
	ographyand stratigraphy), mechanics of soils (classification of fundamental soils, mechanic properties of fundamental soi		
(footings, footers, plates	, depth of founding), determination of planar foundations bearing and deformation, depth foundations classification of dep	oth foundations element	s, examples
	of their use, piles (classification, technology od performing).		
618TEAM	Theoretical and Applied Mechanics	Z,ZK	4
Fundamentals of theory	of plasticity. Plasticity conditions. Elastoplastic and plastic states of cross-sections and beams. Reliability and durability state around a notch. Stress intensity factor. Fracture toughness. Energy methods of linear fracture mechanics. Crack dr		s and strain
618TIK	Theory of Engineering Structures	Z,ZK	4
· ·	ne knowledge gained in basic mechanics courses in bachelor study (especially Statics and Elasticity) in the field of mather	•	
is placed on plane and	axisymmetric problems, as well as on the calculation of stress and strain in plates and shells. Students are further acqua	inted with methods of m	nodeling the
	behavior of subsoil used in the design of line structures.		•
618XN1	Master Project 1	Z	2
618XN2	Master Project 2	Z	2
618XN3	Master Project 3	Z	1
618XN4	Master Project 4	Z	8
618XNDD	Master Thesis for study programme DS	Z	18
620XN1	Master Project 1	Z	2
620XN2	Master Project 2	Z	2
620XN3	Master Project 3	Z	1
620XN4	Master Project 4	Z	8
620XNDD	Master Thesis for study programme DS	Z	18
621XN1	Master Project 1	Z	2
621XN2	Master Project 2	Z	2
621XN3	Master Project 3	Z	1
621XN4	Master Project 4	Z	8
621XNDD	Master Thesis for study programme DS	Z	18
622AMMD	Measuring Methods Applied to Transportation	KZ	4
	chnical processing of traffic route with geodetic total station, GPS and photogrammetry, 3D scanning. Transport corridor processing of several vehicle dynamic characteristics using high-speed cameras and accelerometers. It is a week course a and September - usually in examination period.		
622MSV	Modelling and Vehicle Movement Simulation	KZ	2
	of simulation tools with regards to vehicle movement analysis and vehicle crash analysis. Kinematic and dynamic modelling		
	View conditions. Proposed road space passage. Processing of road 3D models.	•	
622XN1	Master Project 1	Z	2
622XN2	Master Project 2	Z	2
622XN3	Master Project 3	Z	1
622XN4	Master Project 4	Z	8
622XNDD	Master Thesis for study programme DS	Z	18

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