Study plan

Name of study plan: Master Full-Time DS from 2024/25

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch:

Program of study: Transportation Systems and Technology

Type of study: Follow-up master full-time

Required credits: 77

Elective courses credits: 43 Sum of credits in the plan: 120

Note on the plan:

Name of the block: Compulsory courses Minimal number of credits of the block: 50

The role of the block: Z

Code of the group: 1S-NP-DS-20/21

Name of the group: 1st Sem. Master Full-Time DS from 2020/21

Requirement credits in the group: In this group you have to gain 22 credits

Requirement courses in the group: In this group you have to complete 7 courses

Credits in the group: 22 Note on the group:

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
12IKD	Rail Transport Infrastructure Lukáš Týfa, Ond ej Trešl	Z,ZK	5	2P+2C	Z	Z
12TKVP	Highway Engineering Materials Otakar Vacín	Z,ZK	4	2P+2C	Z	Z
18GAZ	Geomechanics and Foundation Engineering Jitka ezní ková, Linda erná Vydrová, Vít Malinovský Linda erná Vydrová Linda erná Vydrová (Gar.)	Z,ZK	3	2P+1C	Z	Z
18TIK	Theory of Engineering Structures Petr Koudelka, Petr Zlámal, Ond ej Jiroušek, Ján Kopa ka Ond ej Jiroušek Ond ej Jiroušek (Gar.)	Z,ZK	4	2P+1C	Z	Z
14GISS	Geographical Information Systems Vít Fábera, František Kekula, Tomáš Janata, Zuzana Purkrábková Tomáš Janata Tomáš Janata (Gar.)	KZ	2	0P+2C+8B	Z	Z
22MSV	Modelling and Vehicle Movement Simulation Michal Frydrýn, Drahomír Schmidt Michal Frydrýn Drahomír Schmidt (Gar.)	KZ	2	0P+2C	Z	Z
15J2A1	Language - English 1 Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerová	Z	2	0P+2C+10B	Z	Z

Characteristics of the courses of this group of Study Plan: Code=1S-NP-DS-20/21 Name=1st Sem. Master Full-Time DS from 2020/21

12IKD	Rail Transport Infrastructure	Z,ZK	5					
Non-compensated lateral acceleration, parameters eduction for transition curve and cant transition, curves without straight, track spacing change. Track detailed construction. Substructure								
design, slab track. Tram	-train. Interoperability. Noise precautions. Railway line modernization for non-tilting and tilting trains.							
12TKVP	Highway Engineering Materials	Z,ZK	4					
The theory of road cons	truction - Material Aspects. The course emphasizes the development of road construction from the beginning of the 20th cer	ntury to the prese	nt, focusing on					
materials, understandin	g the production and placing of asphalt mixtures.							
18GAZ	Geomechanics and Foundation Engineering	Z,ZK	3					
Geology (basics of pert	ographyand stratigraphy), mechanics of soils (classification of fundamental soils, mechanic properties of fundamental soils,	permeability), pla	nar foundations					
(footings, footers, plates	s, depth of founding), determination of planar foundations bearing and deformation, depth foundations classification of depth	foundations elem-	ents, examples					
of their use, piles (class	ification, technology od performing).							
18TIK	Theory of Engineering Structures	Z,ZK	4					
The course builds upon	The course builds upon the knowledge gained in basic mechanics courses in bachelor study (especially Statics and Elasticity) in the field of mathematical theory of elasticity. Emphasis							
is placed on plane and	axisymmetric problems, as well as on the calculation of stress and strain in plates and shells. Students are further acquainte	d with methods of	modeling the					
behavior of subsoil use	behavior of subsoil used in the design of line structures.							
14GISS	Geographical Information Systems	KZ	2					

Construction of saving format of space-oriented information land-survey and cartography minimum basic tasks of spatial operations principles of territorial identification

22MSV	Modelling and Vehicle Movement Simulation	KZ	2			
Principles and posibili	Principles and posibilities of simulation tools with regards to vehicle movement analysis and vehicle crash analysis. Kinematic and dynamic modelling of vehicle/set of vehicles movement					
View conditions. Prop	osed road space passage. Processing of road 3D models.					
15J2A1	Language - English 1	Z	2			
Presentation Skills - 6	esentation Skills - expert technical discourse and style: Analysis of expert texts and their production: Preparation for overseas work engagement.					

Code of the group: 1S-NP-DS-V1-22/23

Name of the group: 1st Sem. Master Full-Time DS Alternative from 2022/23 Requirement credits in the group: In this group you have to gain 4 credits

Credits in the group: 4

Requirement courses in the group: In this group you have to complete 1 course

Note on the group:

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
17DOPD	Transportation Planning and Modeling	Z,ZK	4	2P+2C	Z	Z
17TZND	Technology of Railway Transport Daniel Drnec, Michal Drábek, Zden k Michl, Vít Janoš, Rudolf Vávra Vít Janoš (Gar.)	Z,ZK	4	2P+2C	Z	Z

Characteristics of the courses of this group of Study Plan: Code=1S-NP-DS-V1-22/23 Name=1st Sem. Master Full-Time DS Alternative from 2022/23

17DOPD	Transportation Planning and Modeling	Z,ZK	4				
Basic steps and tools u	Basic steps and tools used within four step model (trip generation, trip distribution, mode choice and trip distribution). Mobility and availability in urban areas, land use. New trends for						
transportation planning	transportation planning and modelling.						
17TZND	Technology of Railway Transport	Z,ZK	4				
Track line capacity asse	Track line capacity assesment, model operational situation with a system running time between IPT-nodes, calculation of traction energy savings compared with infrastructure costs						
for designing of fleeting	for designing of fleeting crossing station, solving of capacity problem and blocking time in relation to train protection system, robustness of timetable, system concept of freight train						
paths, guidelines for ce	aths, guidelines for centralised operational traffic control and management.						

Code of the group: 2S-NP-DS-20/21

Name of the group: 2nd Sem. Bachelor Full-Time DS from 2020/21

Requirement credits in the group: In this group you have to gain 20 credits

Requirement courses in the group: In this group you have to complete 6 courses

Credits in the group: 20 Note on the group:

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
12NAPI	Design and Maintenance of Transportation Structures Otakar Vacín, Gabriela Sidorinová	Z,ZK	4	2P+2C	L	Z
12UMUP	Sustainable Mobility and Land - Use Planning Dagmar Ko árková, Václav Novotný Dagmar Ko árková (Gar.)	Z,ZK	5	2P+2C	L	Z
12ZSUZ	Railway Stations and Centres Ond ej Trešl, Martin Jacura, Tomáš Javo ík	Z,ZK	3	2P+1C	L	Z
16PDP	Principles of Vehicle Design Jaroslav Machan, Jan Leistner, Filip Kotas, David Lehet Jaroslav Machan (Gar.)	ZK	2	2P+0C+8B	L	Z
22AMMD	Measuring Methods Applied to Transportation Michal Frydrýn, Drahomír Schmidt, Tomáš Mi unek, Luboš Nouzovský, Zden k Svatý Luboš Nouzovský Tomáš Mi unek (Gar.)	KZ	4	1P+3C	L	Z
15JBA2	Language - English 2 Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerová,	Z	2	0P+2C+10B	L	Z

Characteristics of the courses of this group of Study Plan: Code=2S-NP-DS-20/21 Name=2nd Sem. Bachelor Full-Time DS from 2020/21

Design and Maintenance of Transportation Structures	Z,ZN	4
Design and construction of cement-concrete pavements and their maintenance. Construction of bridge objects, examples and choice of bridge construction of cement-concrete pavements and their maintenance.	truction materials. (Construction
and operation of tunnels.		

12UMUP | Sustainable Mobility and Land - Use Planning | Z,ZK | 5 Spatial planning - objectives and tasks, development over time. Land-use planning tools. SUMP. Territorial and transport planning context. Ways of urban growth in connection with transport. Basic principles of the transport solution. The impact of transport on the size and shape of the city, on the development of the street and the square and the roads. Solutions for pedestrian and bicycle transport. Suburbanization and transport. City economics.

12ZSUZ Railway Stations and Centres Z,ZK 3

Equipment for passenger transport. Platform construction. Access roads to platforms. Modification of railway stations according to the TSI PRM. Station heads design. Variant solutions of station heads for current ride. Junction stations. Crossing stations. Passenger stations. Moving stations. Public transport terminals.

Code of the group: 2S-NP-DS-V-20/21

Name of the group: 2nd Sem. Master Full-Time DS Alternative from 2020/21 Requirement credits in the group: In this group you have to gain 4 credits

Requirement courses in the group: In this group you have to complete 1 course

Credits in the group: 4 Note on the group:

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
12BED	Road Safety Audit Dagmar Ko árková, Josef Kocourek, Polina Zayats, Karel Kocián, Zuzana arská Josef Kocourek (Gar.)	Z,ZK	4	2P+1C	L	Z
18TEAM	Theoretical and Applied Mechanics Jitka ezní ková, Ond ej Jiroušek, Radim Dvo ák	Z,ZK	4	2P+1C	L	z

Characteristics of the courses of this group of Study Plan: Code=2S-NP-DS-V-20/21 Name=2nd Sem. Master Full-Time DS Alternative from 2020/21

12BED	Road Safety Audit	Z,ZK	4			
Schedules of applications of safety assessments (especially Road Safety Audit, Road Safety Inspection) during the process of preparations, and of the particular realization of the road						
network that should minimize traffic accident risks for all those who take part in road traffic. Application of European Directive 2008/96/EC on road safety infrastructure management.						
18TEAM	Theoretical and Applied Mechanics	Z,ZK	4			
	Theoretical and Applied Mechanics of plasticity. Plasticity conditions. Elastoplastic and plastic states of cross-sections and beams. Reliability and durability of s	_,	4 ss and strain			

Name of the block: Semestrální projekt Minimal number of credits of the block: 13

The role of the block: ZP

Code of the group: X2-NP-DS-20/21

Name of the group: Research Groups Master Full-Time DS from 2020/21 Requirement credits in the group: In this group you have to gain 13 credits

Requirement courses in the group: In this group you have to complete 4 courses

Credits in the group: 13 Note on the group:

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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
11XN1	Master Project 1 Jana Kuklová Jana Kuklová (Gar.)	Z	2	0P+2C+4B	3 Z	ZP
12XN1	Master Project 1 Lukáš Týfa, Ond ej Trešl, Gabriela Sidorinová, Dagmar Ko árková, Václav Novotný, Martin Jacura, Tomáš Javo ík, Josef Kocourek, Polina Zayats,	Z	2	0P+2C+4B	3 Z	ZP
14XN1	Master Project 1	Z	2	0P+2C+4B	Z	ZP
15XN1	Master Project 1	Z	2	0P+2C+4B	Z	ZP
16XN1	Master Project 1 Josef Mik, P emysl Toman	Z	2	0P+2C+4B	3 Z	ZP
17XN1	Master Project 1 Milan K íž, Michal Drábek, Zden k Michl, Vít Janoš, Rudolf Vávra, Václav Baroch, Alexandra Dvo á ková, Veronika Faifrová, Eliška Glaserová,	Z	2	0P+2C+4B	B Z	ZP
18XN1	Master Project 1 Daniel Kytý , Václav Rada, Nela Kr má ová	Z	2	0P+2C+4B	Z	ZP
20XN1	Master Project 1 Milan Sliacky, Ji í R ži ka	Z	2	0P+2C+4B	Z	ZP

21XN1	Master Project 1 Milan Kameník, Stanislav Pleninger, Stanislav Kušmírek, Jakub Trýb, Iveta Kameníková, Jakub Kraus, Andrej Lališ, Slobodan Stoji, Terézia Pilmannová,	Z	2	0P+2C+4B	Z	ZP
22XN1	Master Project 1 Michal Frydrýn, Luboš Nouzovský, Zden k Svatý, Karel Kocián, Jakub Nová ek	Z	2	0P+2C+4B	Z	ZP
23XN1	Master Project 1	Z	2	0P+2C+4B	Z	ZP
11XN2	Master Project 2 Jana Kuklová Jana Kuklová Jana Kuklová (Gar.)	Z	2	0P+2C+8B	L	ZP
12XN2	Master Project 2 Lukáš Týfa, Ond ej Trešl, Gabriela Sidorinová, Dagmar Ko árková, Václav Novotný, Martin Jacura, Tomáš Javo ík, Josef Kocourek, Polina Zayats,	Z	2	0P+2C+8B	L	ZP
14XN2	Master Project 2 Vít Fábera, Tomáš Brandejský, Mária Jánešová, Jan Zelenka	Z	2	0P+2C+8B	L	ZP
15XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
16XN2	Master Project 2 Josef Mik, P emysl Toman	Z	2	0P+2C+8B	L	ZP
17XN2	Master Project 2 Milan K íž, Michal Drábek, Zden k Michl, Vít Janoš, Rudolf Vávra, Václav Baroch, Alexandra Dvo á ková, Veronika Faifrová, Rudolf Franz Heidu, Vít Janoš (Gar.)	Z	2	0P+2C+8B	L	ZP
18XN2	Master Project 2 Petr Koudelka, Nela Kr má ová Daniel Kytý	Z	2	0P+2C+8B	L	ZP
20XN2	Master Project 2 Milan Sliacky, Ji í R ži ka, Patrik Horaž ovský	Z	2	0P+2C+8B	L	ZP
21XN2	Master Project 2 Stanislav Kušmírek, Jakub Trýb, Jakub Kraus, Andrej Lališ, Slobodan Stoji , Terézia Pilmannová, Jakub Hospodka, Lenka Hanáková, Peter Vittek,	Z	2	0P+2C+8B	L	ZP
22XN2	Master Project 2 Michal Frydryn, Luboš Nouzovský, Zden k Svatý, Karel Kocián, Jakub Nová ek	Z	2	0P+2C+8B	L	ZP
23XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
11XN3	Master Project 3	Z	1	0P+4C	Z	ZP
12XN3	Master Project 3 Lukáš Týfa, Ond ej Trešl, Gabriela Sidorinová, Dagmar Ko árková, Václav Novotný, Martin Jacura, Tomáš Javo ík, Josef Kocourek, Polina Zayats,	Z	1	0P+4C	Z	ZP
14XN3	Master Project 3	Z	1	0P+4C	Z	ZP
15XN3	Master Project 3	Z	1	0P+4C	Z	ZP
16XN3	Master Project 3 Josef Mik, P emysl Toman, Michal Cenkner, Josef Svoboda	Z	1	0P+4C	Z	ZP
17XN3	Master Project 3 Milan K íž, Michal Drábek, Zden k Michl, Vít Janoš, Rudolf Vávra, Václav Baroch, Alexandra Dvo á ková, Veronika Faifrová, Eliška Glaserová,	Z	1	0P+4C	Z	ZP
18XN3	Master Project 3 Daniel Kytý , Nela Kr má ová, Tomáš Fíla	Z	1	0P+4C	Z	ZP
20XN3	Master Project 3 Ji í R ži ka, Patrik Horaž ovský	Z	1	0P+4C	Z	ZP
21XN3	Master Project 3 Terézia Pilmannová, Miloš Strouhal, Ota Hajzler	Z	1	0P+4C	Z	ZP
22XN3	Master Project 3 Michal Frydrýn, Tomáš Mi unek, Luboš Nouzovský, Zden k Svatý, Karel Kocián	Z	1	0P+4C	Z	ZP
23XN3	Master Project 3	Z	1	0P+4C	Z	ZP
11XN4	Master Project 4	Z	8	0P+4C	L	ZP
12XN4	Master Project 4 Lukáš Týfa, Ond ej Trešl, Gabriela Sidorinová, Dagmar Ko árková, Martin Jacura, Tomáš Javo ík, Josef Kocourek, Polina Zayats, Zuzana arská,	Z	8	0P+4C	L	ZP
14XN4	Master Project 4	Z	8	0P+4C	L	ZP
15XN4	Master Project 4	Z	8	0P+4C	L	ZP
16XN4	Master Project 4 Josef Mík, Michal Cenkner	Z	8	0P+4C	L	ZP
17XN4	Master Project 4 Milan K íž, Michal Drábek, Zden k Michl, Vít Janoš, Rudolf Vávra, Václav Baroch, Alexandra Dvo á ková, Veronika Faifrová, Rudolf Franz Heidu, Václav Baroch (Gar.)	Z	8	0P+4C	L	ZP
18XN4	Master Project 4 Petr Koudelka, Tomáš Fíla	Z	8	0P+4C	L	ZP
20XN4	Master Project 4 Ji í R ži ka, Patrik Horaž ovský Patrik Horaž ovský	Z	8	0P+4C	L	ZP
21XN4	Master Project 4 Stanislav Pleninger, Iveta Kameníková, Slobodan Stoji , Terézia Pilmannová, Vladimír Socha, Peter Vittek, Jakub Steiner, Miloš Strouhal, Ota Hajzler,	Z	8	0P+4C	L	ZP
22XN4	Master Project 4 Michal Frydryn, Luboš Nouzovský, Zden k Svatý, Karel Kocián	Z	8	0P+4C	L	ZP
	Master Project 4	Z	8	0P+4C	L	ZP

Characteristics of the courses of this group of Study Plan: Code=X2-NP-DS-20/21 Name=Research Groups Master Full-Time DS from 2020/21

2020/21			
11XN1	Master Project 1	Z	2
12XN1	Master Project 1	Z	2
14XN1	Master Project 1	Z	2
15XN1	Master Project 1	Z	2
16XN1	Master Project 1	Z	2
17XN1	Master Project 1	Z	2
18XN1	Master Project 1	Z	2
20XN1	Master Project 1	Z	2
21XN1	Master Project 1	Z	2
22XN1	Master Project 1	Z	2
23XN1	Master Project 1	Z	2
11XN2	Master Project 2	Z	2
12XN2	Master Project 2	Z	2
14XN2	Master Project 2	Z	2
15XN2	Master Project 2	Z	2
16XN2	Master Project 2	Z	2
17XN2	Master Project 2	Z	2
18XN2	Master Project 2	Z	2
20XN2	Master Project 2	Z	2
21XN2	Master Project 2	Z	2
22XN2	Master Project 2	Z	2
23XN2	Master Project 2	Z	2
11XN3	Master Project 3	Z	1
12XN3	Master Project 3	Z	1
14XN3	Master Project 3	Z	1
15XN3	Master Project 3	Z	1
16XN3	Master Project 3	Z	1
17XN3	Master Project 3	Z	1
18XN3	Master Project 3	Z	1
20XN3	Master Project 3	Z	1
21XN3	Master Project 3	Z	1
22XN3	Master Project 3	Z	1
23XN3	Master Project 3	Z	1
11XN4	Master Project 4	Z	8
12XN4	Master Project 4	Z	8
14XN4	Master Project 4	Z	8
15XN4	Master Project 4	Z	8
16XN4	Master Project 4	Z	8
17XN4	Master Project 4	Z	8
18XN4	Master Project 4	Z	8
20XN4	Master Project 4	Z	8
21XN4	Master Project 4	Z	8
22XN4	Master Project 4	Z	8
23XN4	Master Project 4	Z	8
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Name of the block: Compulsory elective courses

Minimal number of credits of the block: 6

The role of the block: PV

Code of the group: Y2-NP-DS-24/25

Name of the group: Comp. Sel. Courses Master Full-Time DS from 2024/25 Requirement credits in the group: In this group you have to gain 6 credits

Requirement courses in the group: In this group you have to complete 3 courses

Credits in the group: 6 Note on the group:

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
00Y2XN	Active participation in a scientific project, workshop, short-term trip abroad	KZ	2	2P+0C		PV

177/0414	Patrik Horaž ovský Patrik Horaž ovský (Gar.)	1/7		00.00		
17Y2AM	Application of Marketing Tools in Transportation	KZ	2	2P+0C	L	PV
12Y2BM	Safety on The Local Roads	KZ	2	2P+0C	Z	PV
14Y2C1 14Y2C2	CATIA I	KZ	2	2P+0C	L Z	PV
14Y2CS	CATIA II	KZ KZ	2	2P+0C 2P+0C		PV
	Sensitivity of Systems CRM				L	PV
21Y2CR	Ladislav Capoušek	KZ	2	2P+0C+8B	L	PV
12Y2DU	Transport in the Context of Sustainability Kristýna Neubergová	KZ	2	2P+0C	L	PV
15Y2DN	Transportation Psychology in German Speaking Countries	KZ	2	2P+0C	L	PV
18Y2DC	Dynamics of Transport Routes and Vehicles	KZ	2	2P+0C	Z	PV
18Y2EM	Electron microscopy Nela Kr má ová	KZ	2	2P+0C	L	PV
16Y2EE	Emissions and Ergonomics of Vehicles	KZ	2	2P+0C	L	PV
17Y2FM	Financing in Urban Mass Transportation Václav Baroch, Olga Mertlová, Petra Skolilová Petra Skolilová (Gar.)	KZ	2	2P+0C	Z	PV
21Y2FM	Aviation Company Financial Management Radoslav Zozu ák Radoslav Zozu ák	KZ	2	2P+0C+8B	Z	PV
18Y2FZ	Physical foundation of materials' properties	KZ	2	2P+0C	L	PV
15Y2HS	Road Transport History Zuzana arská	KZ	2	2P+0C	L	PV
16Y2HP	Vehicle Hygiene	KZ	2	2P+0C	L	PV
14Y2IS	Intelligent Systems in Postal Services	KZ	2	2P+0C	L	PV
12Y2IS	Urban Networks	KZ	2	2P+0C	Z	PV
14Y2JM	One-Chip Controllers	KZ	2	2P+0C	Z	PV
15Y2JH	Job Hunting in English Lenka Monková	KZ	2	2P+0C	Z	PV
14Y2KI	Capital Investment in Transportation and Telecommunications	KZ	2	2P+0C	L	PV
16Y2KV	Car Body Design	KZ	2	2P+0C	L	PV
12Y2KS	Rail Transport in Settlements and Regions	KZ	2	2P+0C	Z	PV
12Y2KE	Landscape Ecology Dagmar Ko árková, Kristýna Neubergová	KZ	2	2P+0C	Z	PV
11Y2LG	Logics of Engineer's Judgement Magdalena Hykšová Magdalena Hykšová (Gar.)	KZ	2	2P+0C	L	PV
21Y2MQ	Quality Management Luboš Socha	KZ	2	2P+0C+8B	L	PV
15Y2MS	Sociology for Managers Martina Śmidochová	KZ	2	2P+0C	Z	PV
21Y2MK	Marketing of Air Transport Peter Vittek Peter Vittek	KZ	2	2P+0C+8B	Z	PV
12Y2MH	Measurement and Modeling of Traffic Noise	KZ	2	2P+0C	L	PV
12Y2MI	Urban Engineering	KZ	2	2P+0C	L	PV
18Y2MP	Finite Element Method And Its Application Ján Kopa ka, Radek Kolman	KZ	2	2P+0C	L	PV
16Y2MK	Quality Methods for Vehicles	KZ	2	2P+0C	L	PV
12Y2MD	Methods of Traffic Regulation and Prediction Zuzana arská	KZ	2	2P+0C	L	PV
17Y2MO	International Organisations in Transportation	KZ	2	2P+0C	L	PV
17Y2MS	Microsimulation of Railway Operation Zden k Michl Zden k Michl (Gar.)	KZ	2	2P+0C	Z	PV
17Y2MD	Modelling and optimization on transport networks	KZ	2	2P+0C	Z	PV
21Y2MC	CNS Systems Modelling Stanislav Pleninger Stanislav Pleninger	KZ	2	2P+0C+8B	Z	PV
17Y2MT	Modern History for Engineering Students Petra Skolilová Petra Skolilová (Gar.)	KZ	2	2P+0C	Z	PV
21Y2MG	Military Aerospace Technologies: Applications and Global Dynamics	KZ	2	2P+0C	Z	PV
12Y2MZ	Modernization of Railway Lines and Stations Dagmar Ko árková, Miroslav Veliš	KZ	2	2P+0C	L	PV
12Y2NS	Shared Space Design Vojt ch Novotný, Karel Hájek	KZ	2	2P+0C	Z	PV
14Y2OP	Object Oriented Programming in Transport	KZ	2	2P+0C	L	PV
15Y2OZ	Health Protection in Transportation and EU	KZ	2	2P+0C	Z	PV

15Y2OF	Specialised French for Transportation and Telecommunications	KZ	2	2P+0C	Z	PV
18Y2OB	Optical Contactless Strain Measurements	KZ	2	2P+0C	L	PV
16Y2PG	Computer Graphics and Virtual Reality Stanislav Novotný, Petr Bouchner	KZ	2	2P+0C	Z	PV
22Y2PS	Traffic Accidents Computer Simulation and Analysis	KZ	2	2P+0C	L	PV
15Y2PT	Food in Transportation Petr Musil	KZ	2	2P+0C	L	PV
15Y2PD	Practical Spanish for Transportation	KZ	2	2P+0C	Z	PV
21Y2PP	Law and Operation in Air Transport Radoslav Zozu ák	KZ	2	2P+0C+8B	L	PV
20Y2PR	Prediction of time series	KZ	2	2P+0C	L	PV
12Y2PV	Public transport priority Vojt ch Novotný Vojt ch Novotný (Gar.)	KZ	2	2P+0C	L	PV
14Y2PI	Process Information Systems in Transportation	KZ	2	2P+0C	Z	PV
14Y2PJ	C++ Programming Language	KZ	2	2P+0C	L	PV
14Y2PH	CAD Interface Programming	KZ	2	2P+0C	L	PV
11Y2PM	Programming in MATLAB	KZ	2	2P+0C	L	PV
15Y2PU	Publications and Their Creation	KZ	2	2P+0C	Z	PV
12Y2RD	Realization of Transport Buildings Dagmar Ko árková, Martin Höfler, Tomáš Honc	KZ	2	2P+0C	L	PV
15Y2SP	Seminar on Political Philosophy Marek Tome ek	KZ	2	2P+0C	Z	PV
17Y2SJ	Network Timetabling on the Railway Zden k Michl, Vit Janoš, Rudolf Vávra Vít Janoš (Gar.)	KZ	2	2P+0C	L	PV
16Y2ST	Special Technologies in Transport and Telecommunications	KZ	2	2P+0C	L	PV
16Y2SV	Special technologies in vehicle manufacturing	KZ	2	2P+0C	L	PV
18Y2SD	Reliability and Diagnostics, Experimental Methods Daniel Kytý Daniel Kytý Daniel Kytý (Gar.)	KZ	2	2P+0C	Z	PV
15Y2SR	Stylistics and Rhetorics	KZ	2	2P+0C	Z	PV
15Y2TS	Technician and Contemporary Society Jan Feit	KZ	2	2P+0C	L	PV
20Y2TE	Technology of Electronic Systems	KZ	2	2P+0C	Z	PV
14Y2TU	Telecommunications Systems and Multimedia	KZ	2	2P+0C	Z	PV
16Y2TT	Transportation and Building Technology and Equipment	KZ	2	2P+0C	Z	PV
21Y2UL	Aircraft Maintenance Kate ina Stuchlíková	KZ	2	2P+0C+8B	L	PV
14Y2UI	Artificial Intelligence	KZ	2	2P+0C+8B	Z,L	PV
18Y2UB	Accident Biomechanics and Safety	KZ	2	2P+0C	L	PV
18Y2VC	Computational Mechanics in Transportation	KZ	2	2P+0C	L	PV
15Y2ZA	Basic Principles of English Academic Writing and Abstract in English Dana Boušová	KZ	2	2P+0C	Z	PV
12Y2ZK	Traffic Calming Zuzana arská	KZ	2	2P+0C	Z	PV

Characteristics of the courses of this group of Study Plan: Code=Y2-NP-DS-24/25 Name=Comp. Sel. Courses Master Full-Time DS from 2024/25

00Y2XN	Active participation in a scientific project, workshop, short-term trip abroad	KZ	2
17Y2AM	Application of Marketing Tools in Transportation	KZ	2
Application of marketing	principles in transport issues, marketing tools suitable for transport, case studies of the use of marketing in the sphere of pu	ublic passenger tr	ansport.
12Y2BM	Safety on The Local Roads	KZ	2
Classification of road ac	cidents rates, social looses. Collision points, diagrams. Tools and methods for safer road transportation. Crossroads from the po	oint of view of safe	ty. Psychological
right of way. Roundabou	uts. Pedestrian transport, cyclists. Traffic lights coordination. Transport control and regulation.		
14Y2C1	CATIA I	KZ	2
Fundaments of working	with CATIA, making basic parts and bodies. Making 2D sketches, geometric stucture, parametric linking, making adaptive m	odels from 2D sk	etches. Import
and export of made par	ts and bodies. Making assemble and visualization.		
14Y2C2	CATIA II	KZ	2
Extension of basic cour	se. Modeling compound bodies. Possibility of enumeration, comunications with other systems. Surface x solid bodies. Kinema	atic mechanism. F	roject making
and project cooperation	. Outputs of projects.		
14Y2CS	Sensitivity of Systems	KZ	2
Design of systems with	defined reliability. The impact of changing parameters and subsystems within a system. System sensitivity computing, definit	ion of sensitivity f	functions and
matrices and their usab	illity in system design.		
21Y2CR	CRM	KZ	2
Introduction to CRM. Ar	alysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the h	uman body. Fatigi	ue Sleep &

Vigilance. Information Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership & Decision & Structure & Communication. Leadership & Decision & D

12Y2DU Transport in the Context of Sustainability	KZ	2
Definitions of sustainable transport, historical context, development in our country and in the world. Sustainable development and sustainable transport,	nsport. Demand for tra	nsport. Induction
of transport. Examples of sustainable transport. Biofuels. Electromobility. New trends in transport. Practical examples.		
15Y2DN Transportation Psychology in German Speaking Countries	KZ	2
Introduction into broader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhausting in traffic, traffic accident, traffic psychology in the internet etc.)	on, getting of ariving lie	cence, children
		2
18Y2DC Dynamics of Transport Routes and Vehicles Basic theory and calculations of more mass systems. Analysis of the forces acting between the vehicle and transport route. Creation of dynamic r	KZ	transport routes
Vibration of systems with a finite number of degrees of freedom. Methods of stiffness constants and pliability constants. Fundamentals of vibration		-
of oscillation. Experimental methods in dynamics.	Tor Bridges. Orneria for	and darmoolbling
18Y2EM Electron microscopy	KZ	2
Basic principles of electron microscopy, construction, control and maintenance of SEM, sample preparation, signal detection, types of detectors	1	
analysis, quantification of results and automation of data processing, energy dispersive X-ray microanalysis and other analytical methods in ele		
obtained from ED detector, practical examples of ED microanalysis on samples.		
16Y2EE Emissions and Ergonomics of Vehicles	KZ	2
Emissions and ergonomy of vehicles and the influence on man and nature. National and international law related to the hygiene. Noise and vibra	ations - sources, creati	on, propagation,
physical values, ways of measuring, prevention, elimination. Exhausts - creation, measurement, reduction, non-regular fuels and drives. Ergonometers	y - sitting, standing, co	ntrol, operational
reach. Condition - heating, ventilation, air-conditioning, filtration, tiredom.		
17Y2FM Financing in Urban Mass Transportation	KZ	2
UMT history and development in Prague and other cities in the world. Building and operation of public tram, bus, and trolleybus networks. Under	-	-
UMT types. UMT development in small towns. Particularities of investment and operation financing of individual UMT types. Historic and present in a particular type of a time and blind appearance. To give a great UMT LIMT type large and a size of a time of a time of the size of the size of a time of the size of the si	nt models of UMT finan	cing. Iransport
inspection and blind passengers. Tourism & Dames and State of Stat	1/7	
21Y2FM Aviation Company Financial Management Theories of corporate financial teterments, budget forecast Financial policy of the company Financial recovered. Jong term financial	KZ	2
Theories of corporate finance - financial statements, budget, forecast. Financial policy of the company. Financial resources - long-term financial earnings, shares, bonds, loans, leasing, capital. Financial and economic analysis of the company - structure and content.	resources, deprecialio	on, retained
18Y2FZ Physical foundation of materials' properties	KZ	2
Atomistic models, lattice defects influence on properties of materials, stiffness, plasticity, strength, fracture, fatigue, creep, corrosion, effects of e	1	_
behavior are the main discussed topics.	environinent and loadii	ig on materials
15Y2HS Road Transport History	KZ	2
Roads and road traffic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration	ı	
1st part of 20th century. Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development		· -
History of road intercections, bridges and traffic control, development of road signs.	· ·	•
16Y2HP Vehicle Hygiene	KZ	2
Emissions and ergonomy of vehicles and the influence on man and nature. National and international law related to the hygiene. Noise and vibra	ations - sources, creati	on, propagation,
$physical\ values,\ ways\ of\ measuring,\ prevention,\ elimination.\ Exhausts-creation,\ measurement,\ reduction,\ non-regular\ fuels\ and\ drives.\ Ergonometric properties and\ drive$	y - sitting, standing, co	ntrol, operational
reach. Condition - heating, ventilation, air-conditioning, filtration, tiredom.		
14Y2IS Intelligent Systems in Postal Services	KZ	2
The use of information systems in the postal services (ITIS, and POST, T + T, PS, KMP, DS), application of information technology in the process		_
postal network, optimizing logistics processes in the post. The appreciation of the real implementation of the Czech post in operation both in lectur	rae and in tha framawa	k of the practical
dools	les and in the hamewor	
desk.		·
12Y2IS Urban Networks	KZ	2
12Y2IS Urban Networks The importance and the position of UN as public and technical infrastructure / utillities, metodology of the UN master planning, of UN design, U	KZ	2
12Y2IS Urban Networks The importance and the position of UN as public and technical infrastructure / utillities, metodology of the UN master planning, of UN design, U operation (basic technical standards of UN, trenchless technologies for UN).	KZ	2 stallation and UN
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21Y2MK	Marketing of Air Transport	KZ	2
The content of the cour	se "Marketing in air transport" is the management of activities and processes using available marketing tools and processes	for analysis, strate	egy development
· ·	sales of goods and services in the aviation industry. In addition to the theoretical foundations of marketing, the lectures prese	nt systems of mai	rket, competition
	reation of marketing strategies and planning.	1/7	
12Y2MH	Measurement and Modeling of Traffic Noise to noise from traffic. Noise from rail transport. Noise from road traffic. Measurement and calculation of noise from rail traffic.	KZ	2
	Modelling of traffic noise in the CADNA A.	ivieasurement and	calculation of
12Y2MI	Urban Engineering	KZ	2
	ties storage in area, coordination engineering activities in area, arrangement of public space, concepement of public spaces.	I\Z	_
18Y2MP	Finite Element Method And Its Application	KZ	2
_	mulation of the Finite Element Method. Direct Stiffness Method used in structural mechanics. Evaluation of stiffness matrices		
variational principles. E	lement formulation (bar and beam elements, CST, LST, quadrilateral, tetrahedral and brick elements). Natural coordinates, na	atural shape funct	ions and
isoparametric represen	tation. Numerical integration. Introduction to dynamics. FEM programming.		
16Y2MK	Quality Methods for Vehicles	KZ	2
	ethods list, customer data acquisition and analysis of customer requirements, QFD, DFM, DFA, DFS. FMEA (Failure mode eff	fect analysis). Ele	ments of parallel
(team) design.	Mathada at Totta Danidation and Destinion	1/7	
12Y2MD	Methods of Traffic Regulation and Prediction gnosis, traffic prognosis for large area (calculation of future traffic volumes, calculation of future traffic volumes between areas (KZ	2
	bution to road network). Shock wave in traffic flow. Service levels and their traffic volumes. Acceleration noise.	analogical and sy	ninetic methods,
17Y2MO	International Organisations in Transportation	KZ	2
_	n transport, UN, EEC UN, Intergovernmental organisations, EU Offices and Agencies, Conference of European Ministries of		
	transport, Air-Rail, railways, roads, air, waterways, forwarding and postal services.		
17Y2MS	Microsimulation of Railway Operation	KZ	2
Introduction to the char	acteristics of simulation tools, creation of a simulation model of railway infrastructure, verification of a specific operational con	r ncept on the given	infrastructure,
adaptation of the infrast	tructure model and modification to the infrastructure to allow the implementation of the proposed operational concept. Stability	tests and evalua	tions. Evaluation
of sensitivity of the ope	rational concept to delays.		
17Y2MD	Modelling and optimization on transport networks	KZ	2
-	on public transport networks, scheduling vehicles, design of control plans for light-controlled intersections including green wa	ve modelling, ser	vice systems,
	problems in distribution systems - exact, heuristic and metaheuristic principles of solving problems.	1/7	
21Y2MC	CNS Systems Modelling	KZ	2
_	as a set of model tasks in the field of communication navigation and surveillance systems in aviation, addressed using mathe voted to air targets tracking, measurement-to-track association, track filtering and multisensor tracking.	етпансаг арргоаст	ies and software
17Y2MT	Modern History for Engineering Students	KZ	2
	the 19. century history. Geopolitical situation in Europe explained on the examples of Great Britain, Germany and Austrian E		_
	nsatlantic transportation development. Imperial China: Late Qing dynasty. Selected chapters from the 20. century history: From		
Czechoslovak historica	l myths.		
Czechoslovak historica 21Y2MG	myths. Military Aerospace Technologies: Applications and Global Dynamics	KZ	2
21Y2MG 12Y2MZ	Military Aerospace Technologies: Applications and Global Dynamics	KZ KZ	2 2
21Y2MG 12Y2MZ Line speed increasing. A Track geometrical chara	Military Aerospace Technologies: Applications and Global Dynamics Modernization of Railway Lines and Stations AGC and AGTC Agreement. AGC and AGTC railway network. Principles of modernization (conceptual papers, definitions of basacteristics on modernized railway lines. Superstructure and substructure on upgraded lines. Designing of railway stations. Brid	KZ KZ sic concepts, indiv	2 2 idual principles).
21Y2MG 12Y2MZ Line speed increasing. A Track geometrical chara and realization of project	Military Aerospace Technologies: Applications and Global Dynamics Modernization of Railway Lines and Stations AGC and AGTC Agreement. AGC and AGTC railway network. Principles of modernization (conceptual papers, definitions of basacteristics on modernized railway lines. Superstructure and substructure on upgraded lines. Designing of railway stations. Brices. Technical description of the tranzit corridors.	KZ KZ sic concepts, indiv dges and tunnels.	2 2 idual principles). Development
21Y2MG 12Y2MZ Line speed increasing. / Track geometrical chara and realization of project 12Y2NS	Military Aerospace Technologies: Applications and Global Dynamics Modernization of Railway Lines and Stations AGC and AGTC Agreement. AGC and AGTC railway network. Principles of modernization (conceptual papers, definitions of bas acteristics on modernized railway lines. Superstructure and substructure on upgraded lines. Designing of railway stations. Briccts. Technical description of the tranzit corridors. Shared Space Design	KZ KZ sic concepts, indiv dges and tunnels.	2 idual principles). Development
21Y2MG 12Y2MZ Line speed increasing. / Track geometrical chara and realization of project 12Y2NS Introducing students to	Military Aerospace Technologies: Applications and Global Dynamics Modernization of Railway Lines and Stations AGC and AGTC Agreement. AGC and AGTC railway network. Principles of modernization (conceptual papers, definitions of bas acteristics on modernized railway lines. Superstructure and substructure on upgraded lines. Designing of railway stations. Bricks. Technical description of the tranzit corridors. Shared Space Design the concept of integrated use of public spaces by sharing space with all users. Active promotion of settlements and sustainal	KZ KZ sic concepts, individges and tunnels. KZ ble mobility in the	2 idual principles). Development 2 public space of
21Y2MG 12Y2MZ Line speed increasing. / Track geometrical chara and realization of project 12Y2NS Introducing students to towns and cities. Analysis	Military Aerospace Technologies: Applications and Global Dynamics Modernization of Railway Lines and Stations AGC and AGTC Agreement. AGC and AGTC railway network. Principles of modernization (conceptual papers, definitions of bas acteristics on modernized railway lines. Superstructure and substructure on upgraded lines. Designing of railway stations. Bricks. Technical description of the tranzit corridors. Shared Space Design the concept of integrated use of public spaces by sharing space with all users. Active promotion of settlements and sustainates of implemented foreign examples, principles of zone design in the context of legal and technical requirements. Linking traf	KZ KZ sic concepts, individges and tunnels. KZ ble mobility in the	2 idual principles). Development 2 public space of
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21Y2MG 12Y2MZ Line speed increasing. Arrack geometrical chara and realization of project 12Y2NS Introducing students to towns and cities. Analyst and architecture in the 14Y2OP	Military Aerospace Technologies: Applications and Global Dynamics Modernization of Railway Lines and Stations AGC and AGTC Agreement. AGC and AGTC railway network. Principles of modernization (conceptual papers, definitions of bas acteristics on modernized railway lines. Superstructure and substructure on upgraded lines. Designing of railway stations. Bridges. Technical description of the tranzit corridors. Shared Space Design the concept of integrated use of public spaces by sharing space with all users. Active promotion of settlements and sustainates of implemented foreign examples, principles of zone design in the context of legal and technical requirements. Linking trafforcess of designing quality public spaces. Object Oriented Programming in Transport	KZ KZ sic concepts, individges and tunnels. KZ ble mobility in the fic engineering, u	2 idual principles). Development 2 public space of rban planning
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COP philosophy and basics of C++ picgramming language. Class. object, constructor, inheritance, abstanct class, writted methods, exceptions, streams, method and operator controlling, better to all by the programming technique with the hip of LST and VBA programming languages. Possibilities of proper objects (commandia), allogues, instrinces, and applications reaction in CAD systems. Programming in documental with a picture of the programming in Marina. British of the programming in Marina and programming the programming in Marina and programming in manages. Possibilities of proper objects (commandia), allogues, instrinces, and applications reaction in CAD systems. Programming in Marina and programming in Marina and program code debugging, data fitting and designing GUI in Marina. 1672PD Publications and Their Creation Constitutions by the Programming in Marina and program code debugging, data fitting and designing GUI in Marina. 1672PD Publications and Their Creation Constitutions by the Programming in Marina and program code debugging, data fitting and designing GUI in Marina. 1672PD Publications and Their Creation Constitutions by the Programming in Marina and program code debugging, data fitting and designing GUI in Marina. 1672PD Publications and Their Creation Constitutions by the Programming of the Constitution	SOA (Service Oriented Are	chitecture). Inforamtion systems implementation and operations description in the Czech Republic (technical and process)	included lectures	and visits.
ventoating, abstract data type implementation in C+1 HYZPH (AD Interface programming terminages with the help of LIST and VRA programming languages. Possibilities of proper objects (commands), dislogues, interfaces, and applications cellular in CAD systems. Programming of companions with other applications (stablabaes, spend-afheets). 11/2PM Programming in MATLAB To explain the principle of modeling and intermitation. description of Matlats environment and its settings, optimization and program code debugging, data fitting and designing GUI in Matlats. 15/2PU Publications and Their Creation Statistics the presence of the programming of the modeling and intermitation. Adv. Avaidation and program code debugging, data fitting and designing GUI in Matlats. 15/2PU Publications and Their Creation Statistics the presence of the programming of the modeling and intermitation. Adv. Avaidation and the common and program code debugging, data fitting and designing GUI in Matlats. 15/2PU Publications and Their Creation Statistics and the programming of the programming of the programming of the modeling of the common and the programming of the pr	14Y2PJ C	C++ Programming Language	KZ	2
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existors - MS Word, Text.La ToK-Practical creation of simple scientific documents. 12Y2RD Realization of Transport Buildings Types. Project Documentation Types. Buildings Code. Land Permission and Building Permission Process. Building Process. Project Economics. Project Management. 15Y2SP Seminar on Political Philosophical texts, view of society, stera and their system of government. 17Y2SJ Threstode surregions. Place of trans-classions of the Project Documentation Types. Buildings Code. 17Y2SJ Threstode surregions. Place of trans-classification recently Threstode surregions. Place of trans-classification profession. Place is and regulations of train paths, nunning times, time edits and supplierments. Politing stock or trans-classification profession, Place of trans-classification profession, Place of trans-classification profession technologies, electron because of the place of			·	_
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Transport Plusidings Types. Poject Documentation Types. Building Codes. Land Permission and Building Process. Building Process. Project Management. 1972SJ Sermisar or Political Philosophy Interpreting of philosophical teats, view of society, state and their system of government. 1772SJ Network Timetablist grows Carpacty allocation, technological intervals in trailway pertaion. Rules and regulations of train paths, running times, time adds and supplements in railway concustors planning, Rules of train-diagrams creating. Timetables amples to train-diagrams creating. Timetables amples to these under contraction. 1672ST Special Technologies in Transport and Telecommunications. KZ 2 2 Micro, nano and special berchinologies, electric and and its applications, plasma technologies, oping, beam technologies, electron beams technology in roduction and mending of vehicles, laser and laser technologies, electric and and its applications, plasma technologies, disping, beam technologies, electron beams technology in roduction and mending of vehicles, laser and laser technologies, electric and its applications, plasma technologies, disping, beam technologies, electron beams technology in roduction and mending of vehicles, laser and laser technologies, electric and its applications, plasma technologies, disping, beam technologies, electron beams technology in roduction and mending of vehicles, laser and laser technologies, electric and its applications, plasma technologies, disping, beam technologies, electron beams technologies, in the service of the electron formation and technologies in the service societies, granting and plasma technologies, electron beams technologies, microsopies, and technologies, disping, beam technologies, electron beams technologies, increasing and determination of residual lite of structures. For this purpose, nor-destructive methods of experimental mechanics (e. g. strain-gauge measurement, photoelasticimetry) and optical methods, including electron microscopy, will be used. 15Y2SR Sy			1/7	
15Y2SP Seminar on Political Philosophy KZ 2		·	·	
Interpreting of philosophical tests, view of society, state and their system of government. YZY2S Network Timetabling on the Railway YZY2S Trendste samples. Capacity allocation, technological intervals in milway operation. Rules and regulations of train paths, running times, time adds and supplements. Relling attook circulation planning, flives of train indigenation earling. Timetables for nore service-levels on the line. Construction slot conflicts between passenger- and freight transport. Network line relations and waiting times, timetables for lines under construction. 1672ST Special Technologies in Transport and Telecommunications Nacro, nano and special technologies, electric are and its applications, joisems technologies, deping, beam technologies, electron beams technology in roduction and mending of vehicles, laster and laser technologies, electric are and its applications, plasma technologies, micro stoves, gas. 1672SV Special Technologies, electric are and its applications, plasma technologies, micro stoves, gas. 1872SD Reliability and Diagnostics, Experimental Methods 1872SO Reliability and Diagnostics, Experimental Methods 1872SV Special Technologies, procedures for the detection of material defects and determination of residual life of structures. For this purpose, non-destructive methods of experimental mechanics (e.g. strain-gauge measurement, photoelasticinetry) and optical methods, including electron microscopy, will be used. 1872SR Syliatics and Rhetorics 1872SR Syliatics and Rhetorics 1872SR Syliatics and Rhetorics 1872SR Technology of Electronic Systems 1872T				
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Theory, creating a phrasal bank according to students specialisations, metorical analysis or texts/abstracts, drafting an abstract, providing effective feedback.	18Y2SD R The course is focused on to defects and determination optical methods, including 15Y2SR Sasic skills of oral and writtorgans, voice training. Language of the state o	Reliability and Diagnostics, Experimental Methods heoretical background and practical experience in the field of reliability of constructions, implementation of diagnostic proce of residual life of structures. For this purpose, non-destructive methods of experimental mechanics (e. g. strain-gauge mean electron microscopy, will be used. Stylistics and Rhetorics Item expression as a means of human communication. Basic information about speech, articulation, oral and written langu- guage semantics, language syntactic and the pragmatic aspect. Creative thought and its oral and written expression. Practic echnician and Contemporary Society oom and open a door for a lady, are there simple solutions, science vs belief, do we need to know or is it enough to turn or is, what are the sights for, interest in public affairs - a hangover from the past? echnology of Electronic Systems an effective operation of electronically controlled systems. Maintaining, meassuring, optimization of safety and reliability of itists, assembly operations, interconnection and repairs technologiesusers and operators. elecommunications Systems and Multimedia idications namely applied in transport solutions, identification and quantification of telecommunications networks and services of guaranteed service quality, two generations of the handover principles. Transportation and Building Technology and Equipment generation and Building Technology and Equipment generation and services acalculation, economy of operation. Technics and technology of underground construct by (ultrasound, laser, GPS, total stations). Aircraft Maintenance granisations (AMOs), Continuing Airworthiness Management Organisations (CAMOs), Maintenance Training Organisations cutorial Intelligence and continued Airworthiness) instructions, aircraft maintenance. Arcident Biomechanics and Safety of Medical Diagnostics - RTG, CT, MR, US. Dynamics of traumatic events, Factors influencing the severity of an accident a estrian injuries. Injury in railway and air traffic accide	kZ age. Teaching to special recomments and the extent of a long in the comment with the comment of the comment	ction of material asticimetry) and 2 peak well-vocal skills of speech. 2 true - it's on the 2 . Semiconductor 2 ed on redundant 2 ort surface shicles operation 2 I documentation ons and general 2 u traffic accident. rinciples of 2 tional systems.
	18Y2SD R The course is focused on to defects and determination optical methods, including 15Y2SR Sasic skills of oral and writ organs, voice training. Languages, voice training. Languages 15Y2TS Why to take off a hat in a result in the languages. The languages of the languages of the languages. The languages of the languages of the languages of the languages. The languages of the languages of the languages of the languages. The languages of the languages of the languages of the languages. The languages of the languages of the languages of the languages. The languages of the languages of the languages of the languages. The languages of the languages of the languages of the languages. The languages of the languages of the languages of the languages. The languages of the languages of the languages of the languages of the languages. The languages of the languages. The languages of the languages. The languages of the languages. The languages of the langu	Reliability and Diagnostics, Experimental Methods heoretical background and practical experience in the field of reliability of constructions, implementation of diagnostic proce of residual life of structures. For this purpose, non-destructive methods of experimental mechanics (e. g. strain-gauge mea- electron microscopy, will be used. Stylistics and Rhetorics then expression as a means of human communication. Basic information about speech, articulation, oral and written langu- guage semantics, language syntactic and the pragmatic aspect. Creative thought and its oral and written expression. Practic echnician and Contemporary Society oom and open a door for a lady, are there simple solutions, science vs belief, do we need to know or is it enough to turn or s, what are the sights for, interest in public affairs - a hangover from the past? echnology of Electronic Systems an effective operation of electronically controlled systems. Maintaining, meassuring, optimization of safety and reliability of lits, assembly operations, interconnection and repairs technologiesusers and operators. elecommunications Systems and Multimedia ications namely applied in transport solutions, identification and quantification of telecommunications networks and services of guaranteed service quality, two generations of the handover principles. ransportation and Building Technology and Equipment g technology and equipment. Transport of solid and mass material, soil and rock above all. Highway and underground constructive for features, delivered mass calculation, economy of operation. Technics and technology of underground constructive for features, delivered mass calculation, economy of operation. Technics and technology of underground constructive fractions and safety measures in aircraft maintenance. with first processing of the proces	kZ age. Teaching to special results and the extent of a long modeling. Proceedings of transportations of transportations and the extent of a long modeling. Proceedings of transportations of transportations and the extent of a long modeling. Proceedings of transportations of transportations and the extent of a long modeling. Proceedings of transportations of transportations and the extent of a long modeling. Proceedings of transportations and the extent of a long modeling. Proceedings of transportations and the extent of a long modeling. Proceedings of transportations and the extent of a long modeling. Proceedings of transportations and the extent of a long modeling. Proceedings of transportations and the extent of a long modeling. Proceedings of transportations and the extent of a long modeling and the extent of a long modeling. Proceedings of transportations are long to the extent of a long modeling and the ex	ction of material asticimetry) and 2 peak well-vocal skills of speech. 2 true - it's on the 2 . Semiconductor 2 ed on redundant 2 ort surface shicles operation 2 I documentation ons and general 2 u traffic accident. rinciples of 2 tional systems.

12Y2ZK Traffic Calming KZ 2

Principles of traffic calming. Solution of road network organization. Urban road layouts. Psychological and physical obstacles (measures of traffic calming) and their combinations. Traffic calming measures in crossroads. Pedestrian zones. Residential streets and zones.

Name of the block: Elective courses Minimal number of credits of the block: 0

The role of the block: V

Code of the group: VP-NP-DS

Name of the group: Master Full-Time DS voluntary

Requirement credits in the group: Requirement courses in the group:

Credits in the group: 0
Note on the group:

1 10to on the	0 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
15JCZ1	Czech Language for Foreign Students 1 Irena Veselková	Z	0	0P+2C	Z	V
15JCZ2	Czech Language for Foreign Students 2 Irena Veselková	Z	0	0P+2C	L	V
15JCZ3	Czech Language for Foreign Students 3 Irena Veselková	Z		0P+2C	Z	V
15JCZ4	Czech Language for Foreign Students 4	Z		0P+2C	L	V

Characteristics of the courses of this group of Study Plan: Code=VP-NP-DS Name=Master Full-Time DS voluntary

	or mis countries of the group or class, reasons are the position of the group or class, reasons are the group or class and the group or c		
15JCZ1	Czech Language for Foreign Students 1	Z	0
Basic structures of 0	Czech language, common communication situations, study, work, leisure time activities, introduction of myself, phonetics of Czec	h language, writi	ng skills.
15JCZ2	Czech Language for Foreign Students 2	Z	0
Basic structures of 0	Czech language, common communication situations, study, work, leisure time activities, introduction of myself, phonetics of Czec	h language, writi	ng skills.
15JCZ3	Czech Language for Foreign Students 3	Z	
Language structure	s with regard to the group level. Listening and oral fluency drill. Basic terminology.		'
15JCZ4	Czech Language for Foreign Students 4	Z	
Language structures	s with regard to the group level. Listening and oral fluency drill. Basic terminology.		•

Name of the block: Jazyky

Minimal number of credits of the block: 8

The role of the block: J

Code of the group: JZ-NP-DS-20/21

Name of the group: Language Courses Master Full-Time DS from 2020/21 Requirement credits in the group: In this group you have to gain 8 credits

Requirement courses in the group: In this group you have to complete 4 courses

Credits in the group: 8
Note on the group:

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
15J2F1	Language - French 1 Irena Veselková	Z	2	0P+2C+10B	Z	J
15J2l1	Language - Italian 1 Irena Veselková	Z	2	0P+2C+10B	Z	J
15J2N1	Language - German 1 Eva Rezlerová, Martina Navrátilová, Jana Štikarová	Z	2	0P+2C+10B	Z	J
15J2R1	Language - Russian 1 Marie Michlová	Z	2	0P+2C+10B	Z	J
15J2S1	Language - Spanish 1 Nina Hricsina Puškinová	Z	2	0P+2C+10B	Z	J
15JBF2	Language - French 2 Irena Veselková	Z	2	0P+2C+10B	L	J
15JBI2	Language - Italian 2	Z	2	0P+2C+10B	L	J
15JBN2	Language - German 2 Eva Rezlerová, Martina Navrátilová, Jana Štikarová	Z	2	0P+2C+10B	L	J

15JBR2	Language - Russian 2 Marie Michlová	Z	2	0P+2C+10B	L	J
15JBS2	Language - Spanish 2 Nina Hricsina Puškinová, Zuzana Krinková	Z	2	0P+2C+10B	L	J
15JBF3	Language - French 3 Irena Veselková	Z	2	0P+2C+10B	Z	J
15JBI3	Language - Italian 3 Irena Veselková	Z	2	0P+2C+10B	Z	J
15JBN3	Language - German 3 Eva Rezlerová, Martina Navrátilová, Jana Štikarová	Z	2	0P+2C+10B	Z	J
15JBR3	Language - Russian 3 Marie Michlová	Z	2	0P+2C+10B	Z	J
15JBS3	Language - Spanish 3 Nina Hricsina Puškinová	Z	2	0P+2C+10B	Z	J
15JBF4	Language - French 4 Irena Veselková	ZK	2	0P+2C+10B	L	J
15JBI4	Language - Italian 4	ZK	2	0P+2C+10B	L	J
15JBN4	Language - German 4 Eva Rezlerová, Martina Navrátilová, Jana Štikarová	ZK	2	0P+2C+10B	L	J
15JBR4	Language - Russian 4 Marie Michlová	ZK	2	0P+2C+10B	L	J
15JBS4	Language - Spanish 4 Eva Rezlerová, Nina Hricsina Puškinová	ZK	2	0P+2C+10B	L	J

Characteristics of the courses of this group of Study Plan: Code=JZ-NP-DS-20/21 Name=Language Courses Master Full-Time DS from 2020/21 15J2F1 Language - French 1 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management 15J2I1 Language - Italian 1 Ζ 2 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management 15J2N1 Language - German 1 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, 15J2R1 Language - Russian 1 7 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management 15J2S1 Language - Spanish 1 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management. 15JBF2 Language - French 2 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management. Language - Italian 2 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management. 15JBN2 | Language - German 2 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management 15JBR2 Language - Russian 2 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management 15JBS2 | Language - Spanish 2 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and technical registers and their use, language of management 15JBF3 7 Language - French 3 Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation 15JBI3 Language - Italian 3 Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge

and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its

features. Practice of oral and written presentation.

15JBN3 Language - German 3 Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation. Language - Russian 3 Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation. 15JBS3 Language - Spanish 3 Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation. 15JBF4 Language - French 4 Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation. 15JBI4 Language - Italian 4 ZK 2 Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation. 15JBN4 Language - German 4 Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation. 15JBR4 Language - Russian 4 7K Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation. 15JBS4 Language - Spanish 4 ZK Grammar and stylistics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of language structure knowledge and perceptive and communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work with (professional) text and its features. Practice of oral and written presentation.

List of courses of this pass:

Code	Name of the course	Completion	Credits
00Y2XN	Active participation in a scientific project, workshop, short-term trip abroad	KZ	2
11XN1	Master Project 1	Z	2
11XN2	Master Project 2	Z	2
11XN3	Master Project 3	Z	1
11XN4	Master Project 4	Z	8
11Y2LG	Logics of Engineer's Judgement	KZ	2
Logical structure	of engineer's judgement, its propositional and predicative logical base. Solutions of logical tasks through the methods of truthfulness a	and semantic analy	sis charts.
	Venn's diagram method. Logical basis for network design for the solution of technical tasks.		
11Y2PM	Programming in MATLAB	KZ	2
To explain the pri	nciple of modelling and simulation, description of Matlab environment and its settings, optimization and program code debugging, dat	a fitting and desigr	ing GUI in
	Matlab.		
12BED	Road Safety Audit	Z,ZK	4
Schedules of appli	cations of safety assessments (especially Road Safety Audit, Road Safety Inspection) during the process of preparations, and of the p	articular realizatior	of the roa
network that shou	d minimize traffic accident risks for all those who take part in road traffic. Application of European Directive 2008/96/EC on road safet	y infrastructure ma	nagement
12IKD	Rail Transport Infrastructure	Z,ZK	5
Non-compensated	lateral acceleration, parameters eduction for transition curve and cant transition, curves without straight, track spacing change. Track deta	iled construction. S	Substructur
	design, slab track. Tram-train. Interoperability. Noise precautions. Railway line modernization for non-tilting and tilting trains		
12NAPI	Design and Maintenance of Transportation Structures	Z,ZK	4
Design and cons	ruction of cement-concrete pavements and their maintenance. Construction of bridge objects, examples and choice of bridge constru	,	nstruction
	and operation of tunnels.		
12TKVP	10.1 E		
141111	Highway Engineering Materials	Z.ZK	4
. —	Highway Engineering Materials d construction - Material Aspects. The course emphasizes the development of road construction from the beginning of the 20th centu	Z,ZK ry to the present, f	•
. —		,	•
The theory of roa	d construction - Material Aspects. The course emphasizes the development of road construction from the beginning of the 20th centumaterials, understanding the production and placing of asphalt mixtures.	,	•
The theory of roa	d construction - Material Aspects. The course emphasizes the development of road construction from the beginning of the 20th centu	ry to the present, for	ocusing on
The theory of roa 12UMUP Spatial planning	d construction - Material Aspects. The course emphasizes the development of road construction from the beginning of the 20th centumaterials, understanding the production and placing of asphalt mixtures. Sustainable Mobility and Land - Use Planning	ry to the present, for Z,ZK an growth in connection	5 ection with
The theory of roa 12UMUP Spatial planning	d construction - Material Aspects. The course emphasizes the development of road construction from the beginning of the 20th centumaterials, understanding the production and placing of asphalt mixtures. Sustainable Mobility and Land - Use Planning - objectives and tasks, development over time. Land-use planning tools. SUMP. Territorial and transport planning context. Ways of urbance of the construction of the 20th centum and placing of asphalt mixtures.	ry to the present, for Z,ZK an growth in connection	5 ection with
The theory of roa 12UMUP Spatial planning	d construction - Material Aspects. The course emphasizes the development of road construction from the beginning of the 20th centumaterials, understanding the production and placing of asphalt mixtures. Sustainable Mobility and Land - Use Planning - objectives and tasks, development over time. Land-use planning tools. SUMP. Territorial and transport planning context. Ways of urbanciples of the transport solution. The impact of transport on the size and shape of the city, on the development of the street and the screen.	ry to the present, for Z,ZK an growth in connection	5 ection with

	Master Project 3	Z	1
12XN4	Master Project 4	Z	8
12Y2BM	Safety on The Local Roads	KZ	2
Classification of roa	ad accidents rates, social looses. Collision points, diagrams. Tools and methods for safer road transportation. Crossroads from the point of	of view of safety. F	sychological
	right of way. Roundabouts. Pedestrian transport, cyclists. Traffic lights coordination. Transport control and regulation.		
12Y2DU	Transport in the Context of Sustainability	KZ	2
Definitions of susta	inable transport, historical context, development in our country and in the world. Sustainable development and sustainable transport. De	emand for transp	ort. Induction
	of transport. Examples of sustainable transport. Biofuels. Electromobility. New trends in transport. Practical examples.		
12Y2IS	Urban Networks	KZ	2
The importance an	d the position of UN as public and technical infrastructure / utillities, metodology of the UN master planning, of UN design, UN coording	nation, UN installa	ation and UN
	operation (basic technical standards of UN, trenchless technologies for UN).		
12Y2KE	Landscape Ecology	KZ	2
Landscape ecolo	gy. Landscape - definition, types, evolution. Landscape systems. Anthropogenic impacts on landscape. Methods using for evaluating landscape.	andscape. Fracta	I geometry
	and its potential applications in landscape ecology. Landscape planning.		
12Y2KS	Rail Transport in Settlements and Regions	KZ	2
	nd development of railway infrastructure in Czech Republic. Arrangement of railway networks and junctions. Suburban railway services		uration and
	ation of metro systems. Network configuration and operation of tram systems. Special thematic lectures (rail transport in selected cour		
12Y2MD	Methods of Traffic Regulation and Prediction	KZ	2
Basic ways of traffic	c prognosis, traffic prognosis for large area (calculation of future traffic volumes, calculation of future traffic volumes between areas (anal modal split, traffic distribution to road network). Shock wave in traffic flow. Service levels and their traffic volumes. Acceleration n		etic methods
40\(0\)			
12Y2MH	Measurement and Modeling of Traffic Noise	KZ	2
meoretical introdu	uction to noise from traffic. Noise from rail transport. Noise from road traffic. Measurement and calculation of noise from rail traffic. Mea noise from road traffic. Modelling of traffic noise in the CADNA A.	asurement and c	alculation of
12Y2MI	Urban Engineering	KZ	2
	Orbait Engineering eaching aming on utilities storage in area, coordination engineering activities in area, arrangement of public space, concepement of pu		2
12Y2MZ		KZ	2
	Modernization of Railway Lines and Stations ing. AGC and AGTC Agreement. AGC and AGTC railway network. Principles of modernization (conceptual papers, definitions of basic or		1
	I characteristics on modernized railway lines. Superstructure and substructure on upgraded lines. Designing of railway stations. Bridge	-	
ridok goomotrioa	and realization of projects. Technical description of the tranzit corridors.	o ana taminolo. Di	ovolopinoni
12Y2NS	Shared Space Design	KZ	2
_	its to the concept of integrated use of public spaces by sharing space with all users. Active promotion of settlements and sustainable r		_
_	Analysis of implemented foreign examples, principles of zone design in the context of legal and technical requirements. Linking traffic		-
	and architecture in the process of designing quality public spaces.	3, 11	
		KZ	2
12Y2PV	and architecture in the process of designing quality public spaces. Public transport priority the backbone of sustainable mobility. Public transport priority (PTP) in strategic documents. PTP in the Czech Republic and abroad. Ty	KZ	1
12Y2PV Public transport as	Public transport priority	KZ pes of PTP meas	ures. Design
12Y2PV Public transport as	Public transport priority the backbone of sustainable mobility. Public transport priority (PTP) in strategic documents. PTP in the Czech Republic and abroad. Ty	KZ pes of PTP meas	ures. Design
12Y2PV Public transport as	Public transport priority the backbone of sustainable mobility. Public transport priority (PTP) in strategic documents. PTP in the Czech Republic and abroad. Ty Relationship between Basics of public transport stops and stations design. PTP measures and evaluation of their operation. Economi	KZ pes of PTP meas	ures. Design
12Y2PV Public transport as of PTP measures. 12Y2RD	Public transport priority the backbone of sustainable mobility. Public transport priority (PTP) in strategic documents. PTP in the Czech Republic and abroad. Ty Relationship between Basics of public transport stops and stations design. PTP measures and evaluation of their operation. Economi PTP. The process of preparing PTP measures.	KZ pes of PTP meas c and enviromen KZ	tal effects of
12Y2PV Public transport as of PTP measures. 12Y2RD	Public transport priority the backbone of sustainable mobility. Public transport priority (PTP) in strategic documents. PTP in the Czech Republic and abroad. Ty Relationship between Basics of public transport stops and stations design. PTP measures and evaluation of their operation. Economi PTP. The process of preparing PTP measures. Realization of Transport Buildings	KZ pes of PTP meas c and enviromen KZ	tal effects of
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14Y2OP Class, object, encap			_
Class, object, enca	Object Oriented Programming in Transport	KZ	2
	psulation, inheritance, polymorphism, templates, retyping, stream, exceptions, repository, collections, virtual methods and classes. F from microscopic simulation system, discrete event simulation, celular automata simulation and virtual life area.	Problem cases wil	be chosen
4.4V2DLI		KZ	2
14Y2PH	CAD Interface Programming interface programming interface programming techniques with the help of LIST and VBA programming languages. Possibilities of proper objects (command		_
Introduction to CAD	applications creation in CAD systems. Programming of cooperation with other applications (databases, spread-sheets).	is), dialogues, litte	maces, an
14Y2PI	Process Information Systems in Transportation	KZ	2
	tailed usage of transport information systems, e.g. EFC, ePurse and transport check-in systems for public transport with focus on ar		_
	ented Architecture). Inforamtion systems implementation and operations description in the Czech Republic (technical and process) i		-
14Y2PJ	C++ Programming Language	KZ	2
- 1	basics of C++ programming language. Class, object, constructor, destructor, inheritance, abstract class, virtual methods, exceptions,		l
, , ,	overloading, abstract data type implementation in C++.	,	·
14Y2TU	Telecommunications Systems and Multimedia	KZ	2
	mmunications namely applied in transport solutions, identification and quantification of telecommunications networks and services per		
	architecture, provissioning of guaranteed service quality, two generations of the handover principles.		
14Y2UI	Artificial Intelligence	KZ	2
	ory of artificial intelligence, knowledge, its representation including frames, state space search, constraints, genetic algorithms, mac	hine learning.	ļ.
15J2A1	Language - English 1	Z	2
	sentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work	engagement.	
15J2F1	Language - French 1	Z	2
3rammatical Structi	ures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	feedback skills, su	ı ummarisin
echnical text conten	t, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec	hnical registers an	nd their use
	language of management.		
15J2I1	Language - Italian 1	Z	2
Grammatical Structu	ures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	feedback skills, st	ummarisin
echnical text conten	t, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec	hnical registers an	nd their us
	language of management.		
15J2N1	Language - German 1	Z	2
Grammatical Structu	ures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	feedback skills, su	ummarisin
echnical text conten	t, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec	hnical registers an	nd their us
	language of management.		
15J2R1	Language - Russian 1	Z	2
Grammatical Structu	ures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	feedback skills, su	ummarisin
echnical text conten	t, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec	hnical registers an	nd their use
	language of management.		1
15J2S1	Language - Spanish 1	Ζ	2
			_
	ures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	feedback skills, su	ı — ummarisin
	t, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec	feedback skills, su	ı — ummarisin
echnical text conten	t, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec language of management.	feedback skills, su hnical registers an	ummarising
echnical text conten	t, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tecleral language of management. Language - English 2	feedback skills, su hnical registers an	ı — ummarisin
echnical text conten	t, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec- language of management. Language - English 2 sentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work e	feedback skills, su hnical registers an	ummarisin nd their use 2
15JBA2 Pre	t, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and teclean language of management. Language - English 2 esentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work examples and their production in the control of	feedback skills, st hnical registers an Z engagement.	ummarisin nd their us 2
15JBA2 Pre 15JBF2 Srammatical Structu	t, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and teclean language of management. Language - English 2 sentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work expenses and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	feedback skills, su hnical registers an Z engagement. Z feedback skills, su	ummarisin nd their use 2 2 ummarisin
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	s of Czech language, common communication situations, study, work, leisure time activities, introduction of myself, phonetics of Czec	_	-
15JCZ2	Czech Language for Foreign Students 2	Z	0
	s of Czech language, common communication situations, study, work, leisure time activities, introduction of myself, phonetics of Czec	ch language, writi	ng skills.
15JCZ3	Czech Language for Foreign Students 3	Z	
	Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology.		•
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15XN2 15XN3 15XN4 15Y2DN Introduction into b	Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, getting in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History	Z Z Z Z KZ KZ ng of driving licer	2 1 8 2 nce, children
15XN2 15XN3 15XN4 15Y2DN Introduction into b 15Y2HS Roads and road tr	Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, getting in traffic, traffic accident, traffic psychology in the internet etc.)	Z Z Z Z KZ ng of driving licer KZ transport develop	2 1 8 2 cce, children 2 ment during
15XN2 15XN3 15XN4 15Y2DN Introduction into b 15Y2HS Roads and road tr	Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, getting in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History affic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road traffic.	Z Z Z Z KZ ng of driving licer KZ transport develop	2 1 8 2 cce, children 2 ment during
15XN2 15XN3 15XN4 15Y2DN Introduction into b 15Y2HS Roads and road tr	Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, getting in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History affic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road that truy. Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of road that the modern period is the modern period of road that	Z Z Z Z KZ ng of driving licer KZ transport develop	2 1 8 2 cce, children 2 ment during
15XN2 15XN3 15XN4 15Y2DN Introduction into b 15Y2HS Roads and road tr 1st part of 20th cer 15Y2JH The course provid	Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, getting in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History affic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road that the transport of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of road History of road intercections, bridges and traffic control, development of road signs. Job Hunting in English es a practical guide to applying for a job in English. The interview process is mapped out, with the course including skills practise for a	Z Z Z Z KZ ng of driving licer KZ transport develop and travelling in mo	2 1 8 2 cce, children 2 ment during dern period. 2 his process,
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15XN2 15XN3 15XN4 15Y2DN Introduction into b 15Y2HS Roads and road tr 1st part of 20th cer 15Y2JH The course provid includir 15Y2MS Sociological appr H 15Y2OF Basic transport 15Y2OZ Health protection	Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, getting in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History affic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road the trury. Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of road intercections, bridges and traffic control, development of road signs. Job Hunting in English es a practical guide to applying for a job in English. The interview process is mapped out, with the course including skills practise for any specifics for job-hunting in English. Students will also be introduced to the English vocabulary and phraseology necessary for a sure Sociology for Managers roach to a corporation. Corporation and its organization. Corporation and its running - human role and communication. Corporation, its duman's work position in free market economy. Corporate directorship, work groups, adaptation, strife, different roles and positions in Specialised French for Transportation and Telecommunications practicion (public transport, railway, air, road and ship transport) and telecommunications terminology. Special focus on independent specialised French for Transportation in Transportation and EU in transportation in CR in the past and present. Conditions before 1989 and after, current legislature, future prospects. Harmonisation members. Fundamental principles of health protection and support in selected EU countries. Practical Spanish for Transportation communication skills, training of correct written expression of formal character, basic technical vocabulary, c	Z Z Z KZ ng of driving licer KZ transport developed travelling in moderate travelling in moderate travelling in moderate travelling in the control of the co	2 1 8 2 ce, children 2 ment during odern period. 2 his process, 2 2 skills. 2 th other EU
15XN2 15XN3 15XN4 15Y2DN Introduction into b 15Y2HS Roads and road tr 1st part of 20th cer 15Y2JH The course provid includir 15Y2MS Sociological appr H 15Y2OF Basic transport 15Y2OZ Health protection 15Y2PD Development of	Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, getting in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History affic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road thury. Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of road History of road intercections, bridges and traffic control, development of road signs. Job Hunting in English es a practical guide to applying for a job in English. The interview process is mapped out, with the course including skills practise for any specifics for job-hunting in English. Students will also be introduced to the English vocabulary and phraseology necessary for a sure Sociology for Managers sociology for Managers sociology for Managers Sociology for Managers Specialised French for Transportation and Telecommunications. Corporation in free market economy. Corporate directorship, work groups, adaptation, strife, different roles and positions in Specialised French for Transportation and Telecommunications ortation (public transport, railway, air, road and ship transport) and telecommunications terminology. Special focus on independent specialised French for Transportation in Transportation and EU in transportation in CR in the past and present. Conditions before 1989 and after, current legislature, future prospects. Harmonisation members. Fundamental principles of health protection and support in selected EU countries. Practical Spanish for Transportation communication skills, training of correct written expression of formal character, basic technical vocabulary, cu	Z Z Z KZ ng of driving licer KZ transport developed travelling in moderate travelling in moderate travelling in moderate travelling in the control of the corporation. KZ seaking and writing KZ and flegislation with the corporation with the corporation with the corporation of the corporatio	2 1 8 2 ce, children 2 ment during odern period. 2 his process, 2 2 skills. 2 th other EU 2 countries.
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15XN2 15XN3 15XN4 15Y2DN Introduction into b 15Y2HS Roads and road tr 1st part of 20th cer 15Y2JH The course provid includir 15Y2MS Sociological appr H 15Y2OF Basic transport 15Y2OZ Health protection 15Y2PD Development of	Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology. Master Project 1 Master Project 2 Master Project 3 Master Project 4 Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, getting in traffic, traffic accident, traffic psychology in the internet etc.) Road Transport History affic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road thury. Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of road History of road intercections, bridges and traffic control, development of road signs. Job Hunting in English es a practical guide to applying for a job in English. The interview process is mapped out, with the course including skills practise for any specifics for job-hunting in English. Students will also be introduced to the English vocabulary and phraseology necessary for a sure Sociology for Managers sociology for Managers sociology for Managers Sociology for Managers Specialised French for Transportation and Telecommunications. Corporation in free market economy. Corporate directorship, work groups, adaptation, strife, different roles and positions in Specialised French for Transportation and Telecommunications ortation (public transport, railway, air, road and ship transport) and telecommunications terminology. Special focus on independent specialised French for Transportation in Transportation and EU in transportation in CR in the past and present. Conditions before 1989 and after, current legislature, future prospects. Harmonisation members. Fundamental principles of health protection and support in selected EU countries. Practical Spanish for Transportation communication skills, training of correct written expression of formal character, basic technical vocabulary, cu	Z Z Z KZ RS end of driving licer KZ Atransport developed travelling in moderate travelling in moderate travelling in moderate travelling in the coessful interview KZ as culture and soccorporation. KZ eaking and writing KZ an of legislation with the coession of the coess	2 1 8 2 1 2 1 2 1 2 1 2 1 2 1 2 1 3 1 3 1 2 1 3 3 3 1 2 1 3 3 4 1 2 1 3 4 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

15Y2PU	Publications and Their Creation	KZ	2
Scientific texts typ	pes. Footnotes and references. Exploration of facts. Quotations. Formal document layout. Working with information databases. Typograeditors - MS Word, Tex/LaTeX. Practical creation of simple scientific documents.	aphic principles. Ty	pographic
15Y2SP	Seminar on Political Philosophy Interpreting of philosophical texts, view of society, state and their system of government.	KZ	2
15Y2SR	Stylistics and Rhetorics	KZ	2
	and written expression as a means of human communication. Basic information about speech, articulation, oral and written language		
	ng. Language semantics, language syntactic and the pragmatic aspect. Creative thought and its oral and written expression. Practice -	_	
15Y2TS	Technician and Contemporary Society	KZ	2
vvny to take on a na	at in a room and open a door for a lady, are there simple solutions, science vs belief, do we need to know or is it enough to turn on a f Internet and in newspapers, what are the sights for, interest in public affairs - a hangover from the past?	C, it must be true	- it s on the
15Y2ZA	Basic Principles of English Academic Writing and Abstract in English	KZ	2
	creating a phrasal bank according to students' specialisations, rhetorical analysis or texts/abstracts, drafting an abstract, providing e		_
16PDP	Principles of Vehicle Design	ZK	2
Design of transp	ortation vehicle according to its usage and function. Marketing and user demands. Vehicle dynamics. Propulsion systems. Design pro	cess, functional de	esign and
100011	vehicle structure. Evaluation of variant concepts. Design phases. Realiability, technological aspects etc.	_	
16XN1	Master Project 1	Z	2
16XN2	Master Project 2	Z	2
16XN3	Master Project 3	Z	1
16XN4	Master Project 4	Z	8
16Y2EE	Emissions and Ergonomics of Vehicles on wan and nature. National and international law related to the hygiene. Noise and vibrations - s	KZ	2
	onomy of venicles and the influence on man and nature. National and international law related to the hygiene. Noise and vibrations - s ys of measuring, prevention, elimination. Exhausts - creation, measurement, reduction, non-regular fuels and drives. Ergonomy - sitting		
priyolodi valdoo, wa	reach. Condition - heating, ventilation, air-conditioning, filtration, tiredom.	, otalianig, control,	oporational
16Y2HP	Vehicle Hygiene	KZ	2
	onomy of vehicles and the influence on man and nature. National and international law related to the hygiene. Noise and vibrations - s	ources, creation, p	ropagation,
physical values, wa	ys of measuring, prevention, elimination. Exhausts - creation, measurement, reduction, non-regular fuels and drives. Ergonomy - sitting	, standing, control,	operational
	reach. Condition - heating, ventilation, air-conditioning, filtration, tiredom.		
16Y2KV	Car Body Design	KZ	2
	ody, high-load car body, bus car body, and motorcycle as a construction set. Principles of design, production, testing and operation. Ne and passive safety parts. Ergonomics, HMI, view out of the vehicle, operational extent, view behind the car. Conditioning tools, sign		-
CONSTRUCTION. ACTIV	of the car body. Design and artistic design principles. Practical training.	aling function. Aer	ouynaniics
16Y2MK	Quality Methods for Vehicles	KZ	2
	nt methods list, customer data acquisition and analysis of customer requirements, QFD, DFM, DFA, DFS. FMEA (Failure mode effect		_
-	(team) design.		
16Y2PG	Computer Graphics and Virtual Reality	KZ	2
	n and processing of bitmap and vector 2D graphics, 3D virtual scenes and algorithms used for their computerized processing. Adopting		
16Y2ST	eware tools for creation and processing of 2D, 3D and interactive graphics, and basics of programming language VRML and graphic leading to the company of th	KZ	2
	Special Technologies in Transport and Telecommunications special technologies, electric arc and its applications, plasma technologies, dipping, beam technologies, electron beams technology		l
Mioro, riano ana	vehicles, laser and laser technologies, soldering, gluing, ultrasound, diffusion, friction and explosion technologies, micro stoves		ioriding or
16Y2SV	Special technologies in vehicle manufacturing	KZ	2
	special technologies, electric arc and its applications, plasma technologies, dipping, beam technologies, electron beams technology		ending of
	vehicles, laser and laser technologies, soldering, gluing, ultrasound, diffusion, friction and explosion technologies, micro stoves		
16Y2TT	Transportation and Building Technology and Equipment	KZ	2
	nd building technology and equipment. Transport of solid and mass material, soil and rock above all. Highway and underground const		
verlicies, descriptio	n and construction features, delivered mass calculation, economy of operation. Technics and technology of underground constructions management methodology (ultrasound, laser, GPS, total stations).	. Terrestriai veriicie	es operation
17DOPD	Transportation Planning and Modeling	Z,ZK	4
	ols used within four step model (trip generation, trip distribution, mode choice and trip distribution). Mobility and availability in urban a		l
	transportation planning and modelling.		
17TZND	Technology of Railway Transport	Z,ZK	4
	assesment, model operational situation with a system running time between IPT-nodes, calculation of traction energy savings comp		
for designing of fle	eeting crossing station, solving of capacity problem and blocking time in relation to train protection system, robustness of timetable, sy	stem concept of f	reight train
17XN1	paths, guidelines for centralised operational traffic control and management. Master Project 1	Z	2
17XN1	Master Project 2	Z	2
17XN2 17XN3	Master Project 2 Master Project 3	Z	1
17XN3	Master Project 4	Z	8
17XN4 17Y2AM	Application of Marketing Tools in Transportation	KZ	2
	narketing principles in transport issues, marketing tools suitable for transport, case studies of the use of marketing in the sphere of principles in transport issues, marketing tools suitable for transport, case studies of the use of marketing in the sphere of principles in transport issues, marketing tools suitable for transport, case studies of the use of marketing in the sphere of principles in transport issues.		l
17Y2FM	Financing in Urban Mass Transportation	KZ	2
	evelopment in Prague and other cities in the world. Building and operation of public tram, bus, and trolleybus networks. Underground		l
-	levelopment in small towns. Particularities of investment and operation financing of individual UMT types. Historic and present model		
	inspection and blind passengers. Tourism & DMT. UMT typology & Dispersion of optimum financing.		T
17Y2MD	Modelling and optimization on transport networks	KZ	2
Coordination prob	lems on public transport networks, scheduling vehicles, design of control plans for light-controlled intersections including green wave modelling of advanced problems in distribution systems - exact, heuristic and metaheuristic principles of solving problems.	modelling, service	e systems,
I	medening of advanced problems in distribution systems - exact, fieuristic and metalleuristic principles of solving problems.		

17Y2MO	International Organisations in Transportation	KZ	2
International rela	tions in transport, UN, EEC UN, Intergovernmental organisations, EU Offices and Agencies, Conference of European Ministries of tra	ansport, Internatio	nal mode
	organisations of public transport, Air-Rail, railways, roads, air, waterways, forwarding and postal services.		
17Y2MS	Microsimulation of Railway Operation	KZ	2
Introduction to the	characteristics of simulation tools, creation of a simulation model of railway infrastructure, verification of a specific operational conce	pt on the given infr	astructure,
adaptation of the in	frastructure model and modification to the infrastructure to allow the implementation of the proposed operational concept. Stability tes	sts and evaluations	s. Evaluation
	of sensitivity of the operational concept to delays.		
17Y2MT	Modern History for Engineering Students	KZ	2
Selected chapters	from the 19. century history. Geopolitical situation in Europe explained on the examples of Great Britain, Germany and Austrian Emp	ire. Rise of the Un	ited States,
American Civil W	/ar, transatlantic transportation development. Imperial China: Late Qing dynasty. Selected chapters from the 20. century history: From	Bellé Epoque to 0	Cold War.
	Czechoslovak historical myths.		
17Y2SJ	Network Timetabling on the Railway	KZ	2
Timetable sample	es. Capacity allocation, technological intervals in railway operation. Rules and regulations of train paths, running times, time adds and	supplements. Rol	lling stock
circulation planning	. Rules of train-diagramm creating. Timetables for more service-levels on the line. Construction slot conflicts between passenger- and	freight transport. I	Network line
	relations and waiting times, timetables for lines under construction.		
18GAZ	Geomechanics and Foundation Engineering	Z,ZK	3
Geology (basics of	pertrographyand stratigraphy), mechanics of soils (classification of fundamental soils, mechanic properties of fundamental soils, per	meability), planar t	foundations
(footings, footers, p	plates, depth of founding), determination of planar foundations bearing and deformation, depth foundations classification of depth fou	ndations elements	, examples
	of their use, piles (classification, technology od performing).		
18TEAM	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 of stru	ctures. The stress	and strain
	state around a notch. Stress intensity factor. Fracture toughness. Energy methods of linear fracture mechanics. Crack driving for	orce.	
18TIK	Theory of Engineering Structures	Z,ZK	4
The course builds u	pon the knowledge gained in basic mechanics courses in bachelor study (especially Statics and Elasticity) in the field of mathematical	I theory of elasticit	y. Emphasis
is placed on plane	and axisymmetric problems, as well as on the calculation of stress and strain in plates and shells. Students are further acquainted w	vith methods of mo	odeling the
	behavior of subsoil used in the design of line structures.		
18XN1	Master Project 1	Z	2
18XN2	Master Project 2	Z	2
18XN3	Master Project 3	Z	1
18XN4	Master Project 4	Z	8
	·	KZ	
18Y2DC	Dynamics of Transport Routes and Vehicles		2
	liculations of more mass systems. Analysis of the forces acting between the vehicle and transport route. Creation of dynamic models of		
Vibration of Systems	s with a finite number of degrees of freedom. Methods of stiffness constants and pliability constants. Fundamentals of vibration of bridge of oscillation. Experimental methods in dynamics.	es. Chiena ioi the a	aumissibility
40)/0514			
	Flectron microscopy	K7	1 2 1
18Y2EM	Electron microscopy	KZ	2
Basic principles	of electron microscopy, construction, control and maintenance of SEM, sample preparation, signal detection, types of detectors and c	data evaluation usi	ng image
Basic principles	of electron microscopy, construction, control and maintenance of SEM, sample preparation, signal detection, types of detectors and cation of results and automation of data processing, energy dispersive X-ray microanalysis and other analytical methods in electron m	data evaluation usi	ng image
Basic principles of analysis, quantification	of electron microscopy, construction, control and maintenance of SEM, sample preparation, signal detection, types of detectors and cation of results and automation of data processing, energy dispersive X-ray microanalysis and other analytical methods in electron mobitained from ED detector, practical examples of ED microanalysis on samples.	data evaluation usi iicroscopy. Evaluat	ng image ion of data
Basic principles of analysis, quantification 18Y2FZ	of electron microscopy, construction, control and maintenance of SEM, sample preparation, signal detection, types of detectors and of ation of results and automation of data processing, energy dispersive X-ray microanalysis and other analytical methods in electron mobiatined from ED detector, practical examples of ED microanalysis on samples. Physical foundation of materials' properties	data evaluation usi iicroscopy. Evaluat KZ	ng image ion of data
Basic principles of analysis, quantification 18Y2FZ	of electron microscopy, construction, control and maintenance of SEM, sample preparation, signal detection, types of detectors and of ation of results and automation of data processing, energy dispersive X-ray microanalysis and other analytical methods in electron mobiained from ED detector, practical examples of ED microanalysis on samples. Physical foundation of materials' properties attice defects influence on properties of materials, stiffness, plasticity, strength, fracture, fatigue, creep, corrosion, effects of environments.	data evaluation usi iicroscopy. Evaluat KZ	ng image ion of data
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21XN1	Master Project 1	Z	2
21XN2	Master Project 2	Z	2
21XN3	Master Project 3	Z	1
21XN4	Master Project 4	Z	8
21Y2CR	CRM	KZ	2
	alysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the hu		Bleep &
	nation Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership & Decision Making. Communication. Leadership & Decision Making. Communication. Leadership & Decision Making. Communication.		
21Y2FM	Aviation Company Financial Management	KZ	2
Theories of corporate	finance - financial statements, budget, forecast. Financial policy of the company. Financial resources - long-term financial res	sources, depreciation	n, retained
	earnings, shares, bonds, loans, leasing, capital. Financial and economic analysis of the company - structure and content	nt.	
21Y2MC	CNS Systems Modelling	KZ	2
The course is designed	as a set of model tasks in the field of communication navigation and surveillance systems in aviation, addressed using mather	matical approaches a	and software
	tools. A large part is devoted to air targets tracking, measurement-to-track association, track filtering and multisensor track		_
21Y2MG	Military Aerospace Technologies: Applications and Global Dynamics	KZ	2
21Y2MK	Marketing of Air Transport	KZ	2
	e "Marketing in air transport" is the management of activities and processes using available marketing tools and processes fo		-
and implementation of s	ales of goods and services in the aviation industry. In addition to the theoretical foundations of marketing, the lectures presen	t systems of market,	, competition
	and product analysis, creation of marketing strategies and planning.		
21Y2MQ	Quality Management	KZ	2
-	i. Pioneers in the field of quality. International quality organisations and quality promotion in the Czech Republic. Quality mana		
management systems. In	ntegrated management systems. Risk management in the context of the requirements of ISO standards. Sectoral quality mana	gement systems. Cor	mprehensive
	quality management, excellence models and corporate social responsibility. Quality audits.		
21Y2PP	Law and Operation in Air Transport	KZ	2
	Law and Operation in Air Transport law. International conventions on civil aviation. International organisations and including of the Czech Republic in these organisations.	I .	_
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