### Study plan

### Name of study plan: DS nav.prez.18/19

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch:

Program of study: Technology in Transportation and Telecommunications

Type of study: Follow-up master full-time

Required credits: 120 Elective courses credits: 0 Sum of credits in the plan: 120

Note on the plan:

Name of the block: Compulsory courses Minimal number of credits of the block: 93

The role of the block: Z

Code of the group: 1.S.NPDS 11/12

Name of the group: 1.sem.nav.prez.DS od 11/12

improvement (geotextile, geogrids, anchored prefabticated elements), EN 1997-2.

Requirement credits in the group: In this group you have to gain 26 credits

Requirement courses in the group: In this group you have to complete 9 courses

Credits in the group: 26 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
12IKOD	Rail Transport Infrastructure	Z,ZK	5	3P+2C	Z	Z
12TKV	The Theory of Pavement Layers in Highway Engineering	Z,ZK	3	2P+1C	Z	Z
17TZE	Technology of Railway Transport	ZK	2	2P+0C	Z	Z
18GES	Geomechanics and Foundation Engineering	Z,ZK	4	2P+1C	Z	Z
18TIK	Theory of Engineering Structures Petr Koudelka, Petr Zlámal, Ond ej Jiroušek	Z,ZK	4	2P+1C	Z	Z
14GISS	Geographical Information Systems František Kekula, Tomáš Janata, Zuzana Purkrábková Tomáš Janata (Gar.)	KZ	2	0P+2C+8B	Z	Z
22SKM	Vehicle Kinematic Modelling and Simulation	KZ	2	0P+2C	Z	Z
12DZP	Transport and Environment	Z	2	2P+0C	Z	Z
15J2A1	Language - English 1 Barbora Horá ková, Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Marek Tome ek, Markéta Musilová,	Z	2	0P+2C+10B	Z	Z

#### Characteristics of the courses of this group of Study Plan: Code=1.S.NPDS 11/12 Name=1.sem.nav.prez.DS od 11/12

Onar actor lotico	the obtained of this group of ottady I lan. obtae 1.0.11 Do 11,12 Name 1.0011.11av.pro2.50	<u> </u>	
12IKOD	Rail Transport Infrastructure	Z,ZK	5
Non-compensated late	al acceleration, Parameters eduction for transition curve and cant transition, curves without straight, track spacing change. R	ailway, subway ar	nd tramway track
detailed construction. C	ontinuous welded rail theory. Substructure, slab track. Tram-train. Interoperability. Noise precautions. Railway lines rationalisa	tion, dispositional	layout of
operating points tracka	ges, passenger buildings and forecourts. Sidings, terminals.		
12TKV	The Theory of Pavement Layers in Highway Engineering	Z,ZK	3
Function of transportati	ons in highway engineering - material aspects of roads and highways. The course covers evolution of highway engineering sind	ce the begining of	the 20th century
with the emphasis of m	aterial aspects.		
17TZE	Technology of Railway Transport	ZK	2
Track line capacity asse	sment, model operational situation with a system running time between IPT-nodes, calculation of traction energy savings cor	mpared with infras	structure costs
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	ntralised operational traffic control and management.		
18GES	Geomechanics and Foundation Engineering	Z,ZK	4
Basic soil behaviour, w	ater flow in the soil, basic of the soil mechanic, mechanic of the soil mass, stress in the soil, landslide and their rehabilitation,	mechanics of the	rock mass, type

of the foundations and their design, abutment walls, breast walls, sheeting structures, improvement of the soil, modern method of the subsoil bearing capacity and slope stability

18TIK	Theory of Engineering Structures	Z,ZK	4
The course builds u	ipon the knowledge gained in basic mechanics courses in bachelor study (especially Statics and Elasticity) in the field of mathema	tical theory of ela	sticity. Emphasis
is placed on plane a	and axisymmetric problems, as well as on the calculation of stress and strain in plates and shells. Students are further acquainted	d with methods of	modeling the
behavior of subsoil	used in the design of line structures.		
14GISS	Geographical Information Systems	KZ	2
Construction of sav	ing format of space-oriented information land-survey and cartography minimum basic tasks of spatial operations principles of territorial contents and cartography minimum basic tasks of spatial operations principles of territorial cartography minimum basic tasks of spatial operations principles of territorial cartography minimum basic tasks of spatial operations principles of territorial cartography minimum basic tasks of spatial operations principles of territorial cartography minimum basic tasks of spatial operations principles of territorial cartography minimum basic tasks of spatial operations principles of territorial cartography minimum basic tasks of spatial operations principles of territorial cartography minimum basic tasks of spatial operations principles of territorial cartography minimum basic tasks of spatial operations principles of territorial cartography minimum basic tasks of spatial cartography min	itorial identification	n
22SKM	Vehicle Kinematic Modelling and Simulation	KZ	2
Principles and posi	bilities of simulation tools with regards to vehicle movement analysis and vehicle crash analysis. Kinematic modelling of vehicle	vehicle train move	ement. View
conditions. Propose	ed road space passage.		
12DZP	Transport and Environment	Z	2
This course aims th	e impact of transport on environment. The accent is put mainly on noise and vibration, emission, barrier effect and energy deman	ds. The noise me	asury is part and
parcel of this course	e.		
15J2A1	Language - English 1	Z	2
Presentation Skills	- expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.	'	

Code of the group: 2.S.NPDS 17/18

Name of the group: 2.sem.nav.prez.DS (od)17/18

Requirement credits in the group: In this group you have to gain 21 credits

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

Credits in the group: 21 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
11THRO	Queuing Theory Šárka Vorá ová <b>Šárka Vorá ová</b> Šárka Vorá ová (Gar.)	ZK	2	2P+0C+8B	L	Z
12NAP	Design and Operation of Traffic Engineering Facilities	Z,ZK	6	3P+2C	L	Z
16PDP	Principles of Vehicle Design Jaroslav Machan, David Lehet Jaroslav Machan (Gar.)	ZK	2	2P+0C+8B	L	Z
18TAM	Theoretical and Applied Mechanics	ZK	2	2P+0C	L	Z
22AMMD	Measuring Methods Applied to Transportation Tomáš Mi unek, Michal Frydrýn, Luboš Nouzovský, Zden k Svatý, Drahomír Schmidt Tomáš Mi unek (Gar.)	KZ	4	1P+3C	L	Z
14DSIM	Traffic Microsimulation	Z	3	0P+2C	L	Z
15JBA2	Language - English 2 Barbora Horá ková, Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Marek Tome ek, Markéta Musilová,	Z	2	0P+2C+10B	L	Z

11THRO	Queuing Theory	ZK	2
Discrete event proce	ss, definition, random distribution, and probability. Basic processes, process of revitalisation. Markov process, Markov models, K	endall classification	n, model M/M/1
models M/M/n. Non-	narkovian models, model M/C/n, models G/G/n. Models with continuous flow. Service net, examples of Petri net. Computer sim	ulation.	
12NAP	Design and Operation of Traffic Engineering Facilities	Z,ZK	6
Past and present of the durability of facilities.	e tunnel construction and design, technological systems at bridges and tunnels and its design, traffic and safety system, risk anal	ysis,bridges and tu	innels operation
16PDP	Principles of Vehicle Design	ZK	2
• .	ion vehicle according to its usage and function. Marketing and user demands. Vehicle dynamics. Propulsion systems. Design p luation of variant concepts. Design phases. Realiability, technological aspects etc.	rocess, functional	design and
	I—		_
18TAM	Theoretical and Applied Mechanics	ZK	2
-	Theoretical and Applied Mechanics ory of plasticity. Plasticity conditions. Elastoplastic and plastic state of body. Reliability and durability of structures. The stress ar	1	_
Fundamentals of the		nd strain state arou	und the notch.
Fundamentals of the Stress intensity factor	ory of plasticity. Plasticity conditions. Elastoplastic and plastic state of body. Reliability and durability of structures. The stress ar : Fracture toughness. Energy methods of linear fracture mechanics. Crack driving force. Opening the crack. Fatigue properties	nd strain state arou	und the notch.
Fundamentals of the Stress intensity factor Dimensioning of fation	ory of plasticity. Plasticity conditions. Elastoplastic and plastic state of body. Reliability and durability of structures. The stress ar : Fracture toughness. Energy methods of linear fracture mechanics. Crack driving force. Opening the crack. Fatigue properties	nd strain state arou	und the notch.
Fundamentals of the Stress intensity factor Dimensioning of fation 22AMMD	ory of plasticity. Plasticity conditions. Elastoplastic and plastic state of body. Reliability and durability of structures. The stress ar Fracture toughness. Energy methods of linear fracture mechanics. Crack driving force. Opening the crack. Fatigue properties ue.	nd strain state around the material. Fa	und the notch. tigue process.
Fundamentals of the Stress intensity factor Dimensioning of fation 22AMMD Geodetic location and	ory of plasticity. Plasticity conditions. Elastoplastic and plastic state of body. Reliability and durability of structures. The stress are. Fracture toughness. Energy methods of linear fracture mechanics. Crack driving force. Opening the crack. Fatigue properties use.  Measuring Methods Applied to Transportation	of strain state around strain state around strain state around strain of the material. Fa	und the notch. tigue process.  4 detic methods.
Fundamentals of the Stress intensity factor Dimensioning of fation 22AMMD Geodetic location and technical stress of the Stress o	ory of plasticity. Plasticity conditions. Elastoplastic and plastic state of body. Reliability and durability of structures. The stress are reacture toughness. Energy methods of linear fracture mechanics. Crack driving force. Opening the crack. Fatigue properties ue.    Measuring Methods Applied to Transportation dechnical processing of traffic route with geodetic total station, GPS and photogrammetry, 3D scanning. Transport corridor set	of strain state around strain state around strain state around strain of the material. Fa	und the notch. tigue process.  4 detic methods.
Fundamentals of the Stress intensity factor Dimensioning of fatige 22AMMD Geodetic location and Detection and technical stress of the Stress o	ory of plasticity. Plasticity conditions. Elastoplastic and plastic state of body. Reliability and durability of structures. The stress are reacture toughness. Energy methods of linear fracture mechanics. Crack driving force. Opening the crack. Fatigue properties use.    Measuring Methods Applied to Transportation detechnical processing of traffic route with geodetic total station, GPS and photogrammetry, 3D scanning. Transport corridor set all processing of several vehicle dynamic characteristics using high-speed cameras and accelerometers. It is a week course an	of strain state around strain state around strain state around strain of the material. Fa	und the notch. tigue process.  4 detic methods.
Fundamentals of the Stress intensity factor Dimensioning of fatige 22AMMD Geodetic location and Detection and techniand September - usu 14DSIM	ory of plasticity. Plasticity conditions. Elastoplastic and plastic state of body. Reliability and durability of structures. The stress are refracture toughness. Energy methods of linear fracture mechanics. Crack driving force. Opening the crack. Fatigue properties use.    Measuring Methods Applied to Transportation detechnical processing of traffic route with geodetic total station, GPS and photogrammetry, 3D scanning. Transport corridor set all processing of several vehicle dynamic characteristics using high-speed cameras and accelerometers. It is a week course an ally in examination period.	KZ  Itting out using geo d the terms are us	und the notch. tigue process.  4 detic methods. ually set in June
Fundamentals of the Stress intensity factor Dimensioning of fatige 22AMMD Geodetic location and Detection and techniand September - usu 14DSIM Basic overview of tra	ory of plasticity. Plasticity conditions. Elastoplastic and plastic state of body. Reliability and durability of structures. The stress are a Fracture toughness. Energy methods of linear fracture mechanics. Crack driving force. Opening the crack. Fatigue properties use.    Measuring Methods Applied to Transportation   detechnical processing of traffic route with geodetic total station, GPS and photogrammetry, 3D scanning. Transport corridor set all processing of several vehicle dynamic characteristics using high-speed cameras and accelerometers. It is a week course an ally in examination period.    Traffic Microsimulation	KZ  titing out using geo d the terms are us	und the notch. tigue process.  4 detic methods. ually set in June 3 ng a transport
Fundamentals of the Stress intensity factor Dimensioning of fatige 22AMMD Geodetic location and Detection and techniand September - usu 14DSIM Basic overview of tra	ory of plasticity. Plasticity conditions. Elastoplastic and plastic state of body. Reliability and durability of structures. The stress are a Fracture toughness. Energy methods of linear fracture mechanics. Crack driving force. Opening the crack. Fatigue properties use.    Measuring Methods Applied to Transportation   detechnical processing of traffic route with geodetic total station, GPS and photogrammetry, 3D scanning. Transport corridor set all processing of several vehicle dynamic characteristics using high-speed cameras and accelerometers. It is a week course an ally in examination period.    Traffic Microsimulation   Traffic microsimulation   Traffic microsimulation models. Introduction to the working environment application. Project processing microsimulation model in users.	KZ  titing out using geo d the terms are us	und the notch. tigue process.  4 detic methods. ually set in June 3 ng a transport

Code of the group: 2.S.NPDS VÝB R 17/18

Name of the group: 2.sem.nav.prez.DS výb r p edm tu (od) 17/18

Requirement credits in the group: In this group you have to gain 3 credits

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

Credits in the group: 3 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
12DOUP	Transport and Land - Use Planning	Z,ZK	3	1P+2C	L	Z
17MGD	Management of Transport Systems	Z,ZK	3	2P+1C+8B	L	Z

## Characteristics of the courses of this group of Study Plan: Code=2.S.NPDS VÝB R 17/18 Name=2.sem.nav.prez.DS výb r p edm tu (od) 17/18

12DOUP	Transport and Land - Use Planning	Z,ZK	3			
Explanation of fundame	explanation of fundamental relation and connection between transport and territory, fundamentals of traffic layout. Land - use planning. Influence of traffic on area and shape of tow					
solving principles of diff	erent transport modes including pedestrian traffic and cycling transport. Traffic calming, parking. Complex transport study.					
17MGD	Management of Transport Systems	Z,ZK	3			
Functions, processes a	unctions, processes and systems of management in transport, organisational structures, strategy, social responsibility, soft skills.					

Code of the group: 3.S.NPDS 19/20

Name of the group: 3.sem.nav.prez.obor DS od 19/20 (N3710)

Requirement credits in the group: In this group you have to gain 23 credits

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

Credits in the group: 23 Note on the group:

	<u> </u>					
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
11STS	Stochastic Systems Šárka Vorá ová, Evženie Uglickich, Natálie Blahitka, Michal Matowicki, Pavla Pecherková <b>Pavla Pecherková</b> Šárka Vorá ová (Gar.)	Z,ZK	4	2P+2C+14B	Z	Z
12IDOS	Integrated Transport Systems Martin Jareš, Petr Chmela	ZK	3	2P+0C	Z	Z
12TEPR	Theory of Road Traffic Operation	Z,ZK	8	4P+2C	Z	Z
20DTEL	Road's Traffic Telematics	ZK	4	2P+0C	Z	Z
12BA	Road Safety Audit	KZ	2	2P+0C	Z	Z
15JBA3	Language - English 3 Barbora Horá ková, Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss. Markéta Vojanová. Marie Michlová. Markéta Musilová. Eva Rezlerová	Z	2	0P+2C+10B	Z	Z

#### Characteristics of the courses of this group of Study Plan: Code=3.S.NPDS 19/20 Name=3.sem.nav.prez.obor DS od 19/20 (N3710)

11STS	Stochastic Systems	Z,ZK	4
The subject deals with	the problems of mathematical modelling of dynamical systems, estimation od these models and their utilization for prediction.	The results are ill	ustrated on
practical transportation	tasks. Mathematical theory roots from probability and mathematical statistics and they use the methods of the Bayesian probability	abilistic approach	-
12IDOS	Integrated Transport Systems	ZK	3
Reasons for building of	integrated transport systems, principle of integration, dividing of integration methods, traffic, infrastructure, technical, organiz	ational methods, i	ntegration of
tariff, sales systems, in	formation systems, marketing of system, examples of non-integration.		
12TEPR	Theory of Road Traffic Operation	Z,ZK	8
Basic transport parame	ters and their measurement, traffic sensors. The concept of capacity analysis. Theoretical foundations and application of simi	ulation models, ma	acroscopic and
statistical models. The	ry of traffic management of intersections, urban areas and highways. Green Wave and priority of public transport. Identificatic	on and manageme	nt of accidents.
Dringiples and mathed			
Filliciples and methods	s of evaluation of roads maintenance.		
20DTEL	of evaluation of roads maintenance.  Road's Traffic Telematics	ZK	4
20DTEL			4
20DTEL	Road's Traffic Telematics		4
20DTEL Traffic management in 12BA	Road's Traffic Telematics cities and on highways, information and navigation systems, electronic fee collection, safe and intelligent vehicle and safety s	ystems.	2
20DTEL Traffic management in 12BA Schedules of application	Road's Traffic Telematics cities and on highways, information and navigation systems, electronic fee collection, safe and intelligent vehicle and safety s Road Safety Audit	ystems.	2
20DTEL Traffic management in 12BA Schedules of application	Road's Traffic Telematics  cities and on highways, information and navigation systems, electronic fee collection, safe and intelligent vehicle and safety solution and safety solution and safety solution and safety safety assessments during the process of preparations, and of the particular realization of the road network that should	ystems.	2
20DTEL Traffic management in 12BA Schedules of applicational those who take part 15JBA3	Road's Traffic Telematics  cities and on highways, information and navigation systems, electronic fee collection, safe and intelligent vehicle and safety so Road Safety Audit  ns of safety assessments during the process of preparations, and of the particular realization of the road network that should in road traffic. Road safety survey. Application of European Directive 2008/96/EC on road safety infrastructure management.	ystems.  KZ I minimize traffic a	2 ccident risks for

Code of the group: XNDP 13/14

Name of the group: Diplomová práce (obory PL, DS, LA +[ID]) od 13/14 Requirement credits in the group: In this group you have to gain 18 credits Requirement courses in the group: In this group you have to complete 1 course

Credits in the group: 18 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
11XNDP	Master Thesis Evženie Uglickich	KZ	18	0P+20C+70B	L	Z
12XNDP	Master Thesis	KZ	18	0P+20C+70B	L L	Z
15XNDP	Master Thesis	KZ	18	0P+20C+70B	L	Z
16XNDP	Master Thesis	KZ	18	0P+20C+70B	L	Z
17XNDP	Master Thesis	KZ	18	0P+20C+70B	L	Z
14XNDP	Master Thesis	KZ	18	0P+20C+70B	L	Z
20XNDP	Master Thesis	KZ	18	0P+20C+70B	L	Z
21XNDP	Master Thesis Slobodan Stoji , Miloš Strouhal, Vladimír Socha, Peter Vittek, Iveta Kameníková, Petr Had, Petr Lukeš, Stanislav Pleninger, Petr en k,	KZ	18	0P+20C+70B	L	Z
22XNDP	Master Thesis Luboš Nouzovský	KZ	18	0P+20C+70B	L	Z
23XNDP	Master Thesis	KZ	18	0P+20C+70B	Ĺ	Z
18XNDP	Master Thesis	KZ	18	0P+20C+70B	L L	Z

Characteristics of the courses of this group of Study Plan: Code=XNDP 13/14 Name=Diplomová práce (obory PL, DS, LA +[ID]) od 13/14

11XNDP	Master Thesis	KZ	18
12XNDP	Master Thesis	KZ	18
15XNDP	Master Thesis	KZ	18
16XNDP	Master Thesis	KZ	18
17XNDP	Master Thesis	KZ	18
14XNDP	Master Thesis	KZ	18
20XNDP	Master Thesis	KZ	18
21XNDP	Master Thesis	KZ	18
22XNDP	Master Thesis	KZ	18
23XNDP	Master Thesis	KZ	18
18XNDP	Master Thesis	KZ	18

Code of the group: 4.S.NP 12/13

Name of the group: 4.sem.nav.prez.(obory DS, LA; [PL] + [ID]) od 12/13 Requirement credits in the group: In this group you have to gain 2 credits

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

Credits in the group: 2 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
15JBA4	Language - English 4 Barbora Horá ková, Jitka He manová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerová	ZK	2	0P+2C+10B	L	Z

# Characteristics of the courses of this group of Study Plan: Code=4.S.NP 12/13 Name=4.sem.nav.prez.(obory DS, LA; [PL] + [ID]) od 12/13

15JBA4	Language - English 4	ZK	2
Presentation Skills - exp	ert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.	Optional courses for	or certificates
FCE, CAE.			

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

The role of the block: ZP

Code of the group: XN1-4 14/15

Name of the group: Projekty nav.prez.1.-4.sem (obory PL + DS, LA, [BT]) od 14/15

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:

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	Z	2	0P+2C+4B	Z	ZP
12XN1	Master Project 1 Martin Jareš, Petr Chmela, Zuzana arská, Dagmar Ko árková, Iva Šturmová,	Z	2	0P+2C+4B	Z	ZP
14XN1	Kristýna Neubergová, Martin Jacura, Jan Kruntorád, Ond ej Trešl,  Master Project 1	Z	2	0P+2C+4B	Z	ZP
15XN1	Master Project 1	Z	2	0P+2C+4B	<del>                                     </del>	ZP
16XN1	Master Project 1	Z	2	0P+2C+4B	Z	ZP
10/11/1	P emysl Toman  Master Project 1	_	_	0. 1201 12	_	
17XN1	Václav Baroch, Michal Drábek, Alexandra Dvo á ková, Veronika Faifrová, Eliška Glaserová, Rudolf F. Heidu, Tomáš Horák, Vít Janoš, Milan K íž,	Z	2	0P+2C+4B	Z	ZP
18XN1	Master Project 1 Václav Rada, Nela Kr má ová	Z	2	0P+2C+4B	Z	ZP
20XN1	Master Project 1	Z	2	0P+2C+4B	Z	ZP
21XN1	Master Project 1 Slobodan Stoji , Vladimír Socha, Peter Vittek, Jakub Steiner, Terézia Pilmannová, Jakub Kraus, Andrej Lališ, Jakub Hospodka, Lenka Hanáková,	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	Z	2	0P+2C+8B	L	ZP
12XN2	Master Project 2 Martin Jares, Petr Chmela, Zuzana arská, Dagmar Ko árková, Kristýna	Z	2	0P+2C+8B	L	ZP
14XN2	Neubergová, Martin Jacura, Jan Kruntorád, Ond ej Trešl, David Vodák,  Master Project 2	Z	2	0P+2C+8B	L	ZP
15XN2	Master Project 2	Z	2	0P+2C+8B		ZP
16XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
17XN2	P emysl Toman, Josef Mík  Master Project 2  Václav Baroch, Michal Drábek, Alexandra Dvo á ková, Veronika Faifrová, Rudolf F. Heidu, Tomáš Horák, Vít Janoš, Milan K íž, Olga Mertlová, Vít Janoš (Gar.)	Z	2	0P+2C+8B		ZP
18XN2	Master Project 2 Daniel Kytý	Z	2	0P+2C+8B	L	ZP
20XN2	Master Project 2 Ji í R ži ka, Patrik Horaž ovský	Z	2	0P+2C+8B	L	ZP
21XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
22XN2	Master Project 2 Michal Frydrýn, 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 Martin Jareš, Petr Chmela, Zuzana arská, Dagmar Ko árková, Martin Jacura, Jan Kruntorád, Ond ej Trešl, David Vodák, Tomáš Javo ík,	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 Pemysl Toman, Josef Mik, Michal Cenkner, Josef Svoboda	Z	1	0P+4C	Z	ZP
17XN3	Master Project 3 Václav Baroch, Michal Drábek, Alexandra Dvo á ková, Veronika Faifrová, Eliška Glaserová, Rudolf F. Heidu, Tomáš Horák, Vít Janoš, Milan K íž,	Z	1	0P+4C	Z	ZP
18XN3	Master Project 3	Z	1	0P+4C	Z	ZP
20XN3	Master Project 3	Z	1	0P+4C	Z	ZP
21XN3	Master Project 3 Miloš Strouhal, Terézia Pilmannová	Z	1	0P+4C	Z	ZP
22XN3	Master Project 3 Tomáš Mi unek, Michal Frydrýn, 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 Martin Jareš, Petr Chmela, Zuzana arská, Dagmar Ko árková, Kristýna Neubergová, Martin Jacura, Jan Kruntorád, Ond ej Trešl, David Vodák,	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 Mik, Michal Cenkner	Z	8	0P+4C	L	ZP
17XN4	Master Project 4 Václav Baroch, Michal Drábek, Alexandra Dvo á ková, Veronika Faifrová, Rudolf F. Heidu, Tomáš Horák, Vít Janoš, Milan K íž, Olga Mertlová, Václav Baroch (Gar.)	Z	8	0P+4C	L	ZP
18XN4	Master Project 4	Z	8	0P+4C	L	ZP
20XN4	Master Project 4	Z	8	0P+4C	L	ZP
21XN4	Master Project 4 Slobodan Stoji , Miloš Strouhal, Vladimír Socha, Peter Vittek, Iveta Kameníková, Petr Had, Petr Lukeš, Stanislav Pleninger, Jakub Steiner,	Z	8	0P+4C	L	ZP
22XN4	Master Project 4 Michal Frydrýn, Luboš Nouzovský, Zden k Svatý, Karel Kocián	Z	8	0P+4C	L	ZP
23XN4	Master Project 4	Z	8	0P+4C	L	ZP

Characteristics of the courses of this group of Study Plan: Code=XN1-4 14/15 Name=Projekty nav.prez.1.-4.sem (obory PL + DS, LA, IBTI) od 14/15

11XN1	[BT]) od 14/15			
Master Project 1	11XN1	Master Project 1		2
15XN1         Master Project 1         Z         2           16XN1         Master Project 1         Z         2           15XN1         Master Project 1         Z         2           15XN1         Master Project 1         Z         2           22XN1         Master Project 1         Z         2           21XN1         Master Project 1         Z         2           23XN1         Master Project 1         Z         2           23XN1         Master Project 1         Z         2           21XN2         Master Project 1         Z         2           21XN2         Master Project 2         Z         2           22XN2         Master Project 3         Z         1	12XN1			2
Master Project 1	14XN1	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           21XN2         Master Project 2         Z         2           11XN2         Master Project 2         Z         2           12XN2         Master Project 2         Z         2           16XN2         Master Project 2         Z         2           16XN2         Master Project 2         Z         2           17XN2         Master Project 2         Z         2           12XN2         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 3         Z         1           14XN3         Master Project 3         Z         1	15XN1	Master Project 1	Z	2
18XNI	16XN1	Master Project 1	Z	2
DOXNI	17XN1	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         11XN2       Master Project 2       Z       2         14XN2       Master Project 2       Z       2         14XN2       Master Project 2       Z       2         15XN2       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 3       Z       1         12XN3       Master Project 3       Z       1         12XN3       Master Project 3       Z       1         15XN3       Master Project 3       Z       1         1	18XN1	Master Project 1	Z	2
22XN1       Master Project 1       Z       2         23XN1       Master Project 2       Z       2         11XN2       Master Project 2       Z       2         12XN2       Master Project 2       Z       2         12XN2       Master Project 2       Z       2         15XN2       Master Project 2       Z       2         16XN2       Master Project 2       Z       2         16XN2       Master Project 2       Z       2         16XN2       Master Project 2       Z       2         20XN2       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 3       Z       1         11XN3       Master Project 3       Z       1         12XN3       Master Project 3       Z       1         15XN3       Master Project 3       Z       1         16XN3       Master Project 3       Z       1         16XN3       Master Project 3       Z       1         1	20XN1	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 3       Z       2         23XN2       Master Project 3       Z       1         12XN3       Master Project 3       Z       1         12XN3       Master Project 3       Z       1         14XN3       Master Project 3       Z       1         15XN3       Master Project 3       Z       1         1	21XN1	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 3       Z       1         11XN3       Master Project 3       Z       1         12XN3       Master Project 3       Z       1         14XN3       Master Project 3       Z       1         15XN3       Master Project 3       Z       1         15XN3       Master Project 3       Z       1         15XN3       Master Project 3       Z       1         17XN3       Master Project 3       Z       1         17XN3       Master Project 3       Z       1         2	22XN1	Master Project 1	Z	2
12XN12       Master Project 2       Z       2         14XN12       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 3       Z       1         12XN3       Master Project 3       Z       1         12XN3       Master Project 3       Z       1         14XN3       Master Project 3       Z       1         15XN3       Master Project 3       Z       1         15XN3       Master Project 3       Z       1         17XN3       Master Project 3       Z       1         18XN3       Master Project 3       Z       1         18XN3       Master Project 3       Z       1         2XN3       Master Project 3       Z       1	23XN1	Master Project 1	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 3       Z       1         11XN3       Master Project 3       Z       1         12XN3       Master Project 3       Z       1         14XN3       Master Project 3       Z       1         15XN3       Master Project 3       Z       1         17XN3       Master Project 3       Z       1         12XN3       Master Project 3       Z       1         20XN3       Master Project 3       Z       1         21XN3       Master Project 3       Z       1         22XN3       Master Project 3       Z       1         21XN3       Master Project 3       Z       1         2	11XN2	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 3       Z       1         12XN3       Master Project 3       Z       1         14XN3       Master Project 3       Z       1         14XN3       Master Project 3       Z       1         15XN3       Master Project 3       Z       1         16XN3       Master Project 3       Z       1         18XN3       Master Project 3       Z       1         20XN3       Master Project 3       Z       1         21XN3       Master Project 3       Z       1         2	12XN2	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 3       Z       1         12XN3       Master Project 3       Z       1         12XN3       Master Project 3       Z       1         12XN3       Master Project 3       Z       1         15XN3       Master Project 3       Z       1         20XN3       Master Project 3       Z       1         21XN3       Master Project 3       Z       1         22XN3       Master Project 3       Z       1         21XN3       Master Project 3       Z       1         2	14XN2	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 3       Z       1         11XN3       Master Project 3       Z       1         12XN3       Master Project 3       Z       1         14XN3       Master Project 3       Z       1         15XN3       Master Project 3       Z       1         12XN3       Master Project 3       Z       1         1	15XN2	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 3       Z       1         12XN3       Master Project 3       Z       1         12XN3       Master Project 3       Z       1         14XN3       Master Project 3       Z       1         15XN3       Master Project 3       Z       1         15XN3       Master Project 3       Z       1         17XN3       Master Project 3       Z       1         12XN3       Master Project 3       Z       1         20XN3       Master Project 3       Z       1         21XN3       Master Project 3       Z       1         22XN3       Master Project 3       Z       1         21XN3       Master Project 4       Z       8         12XN4       Master Project 4       Z       8         12XN4       Master Project 4       Z       8         12XN4       Master Project 4       Z       8         1	16XN2	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 3       Z       1         12XN3       Master Project 3       Z       1         12XN3       Master Project 3       Z       1         15XN3       Master Project 3       Z       1         15XN3       Master Project 3       Z       1         16XN3       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 4       Z       8         12XN4       Master Project 4       Z       8         12XN4       Master Project 4       Z       8         15XN4       Master Project 4       Z       8         15XN4       Master Project 4       Z       8         15XN4       Master Project 4       Z       8         1	17XN2	Master Project 2	Z	2
21XN2       Master Project 2       Z       2         22XN2       Master Project 2       Z       2         23XN2       Master Project 3       Z       1         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 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         16XN4       Master Project 4       Z       8         1	18XN2	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         15XN4       Master Project 4       Z       8         15XN4       Master Project 4       Z       8         16XN4       Master Project 4       Z       8         16XN4       Master Project 4       Z       8         1	20XN2	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         20XN3       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         15XN4       Master Project 4       Z       8         15XN4       Master Project 4       Z       8         16XN4       Master Project 4       Z       8         17XN4       Master Project 4       Z       8         18XNA       Master Project 4       Z       8         2	21XN2	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         23XN3       Master Project 3       Z       1         23XN3       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         18XN4       Master Project 4       Z       8         18XN4       Master Project 4       Z       8         2	22XN2	Master Project 2	Z	2
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 4       Z       8         12XN4       Master Project 4       Z       8         14XN4       Master Project 4       Z       8         15XN4       Master Project 4       Z       8         15XN4       Master Project 4       Z       8         16XN4       Master Project 4       Z       8         18XN4       Master Project 4       Z       8         18XN4       Master Project 4       Z       8         20XN4       Master Project 4       Z       8         21XN4       Master Project 4       Z       8         2	23XN2	Master Project 2	Z	2
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         20XN4       Master Project 4       Z       8         20XN4       Master Project 4       Z       8         21XN4       Master Project 4       Z       8         21XN4       Master Project 4       Z       8         2	11XN3	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 4       Z       8         12XN4       Master Project 4       Z       8         12XN4       Master Project 4       Z       8         15XN4       Master Project 4       Z       8         15XN4       Master Project 4       Z       8         16XN4       Master Project 4       Z       8         17XN4       Master Project 4       Z       8         20XN4       Master Project 4       Z       8         20XN4       Master Project 4       Z       8         21XN4       Master Project 4       Z       8         22XN4       Master Project 4       Z       8         22XN4       Master Project 4       Z       8         2	12XN3	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 4       Z       8         12XN4       Master Project 4       Z       8         12XN4       Master Project 4       Z       8         15XN4       Master Project 4       Z       8         16XN4       Master Project 4       Z       8         16XN4       Master Project 4       Z       8         18XN4       Master Project 4       Z       8         20XN4       Master Project 4       Z       8         20XN4       Master Project 4       Z       8         21XN4       Master Project 4       Z       8         22XN4       Master Project 4       Z       8         22XN4       Master Project 4       Z       8	14XN3	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 4       Z       8         12XN4       Master Project 4       Z       8         12XN4       Master Project 4       Z       8         15XN4       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         22XN4       Master Project 4       Z       8	15XN3	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 4       Z       8         12XN4       Master Project 4       Z       8         12XN4       Master Project 4       Z       8         15XN4       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         22XN4       Master Project 4       Z       8	16XN3	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         22XN4       Master Project 4       Z       8	17XN3	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         22XN4       Master Project 4       Z       8	18XN3	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         22XN4       Master Project 4       Z       8	20XN3	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         22XN4       Master Project 4       Z       8	21XN3	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	22XN3	Master Project 3	Z	1
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	23XN3	Master Project 3	Z	1
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	11XN4	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         22XN4       Master Project 4       Z       8	12XN4		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	14XN4	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         22XN4       Master Project 4       Z       8	15XN4	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         22XN4       Master Project 4       Z       8	16XN4		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	17XN4	Master Project 4	Z	8
20XN4         Master Project 4         Z         8           21XN4         Master Project 4         Z         8           22XN4         Master Project 4         Z         8	18XN4	Master Project 4	Z	8
21XN4         Master Project 4         Z         8           22XN4         Master Project 4         Z         8	20XN4	Master Project 4	Z	8
22XN4         Master Project 4         Z         8           23XN4         Master Project 4         Z         8	21XN4		Z	8
23XN4 Master Project 4 Z 8	22XN4		Z	8
			Z	8

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 18/19

Name of the group: PVP nav.prez.(DS, LA) 18/19
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
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
23Y2BP	Security Class Zuzana Kosová	KZ	2	2P+0C	Z	PV
21Y2BS	Unmanned aircraft systems 2 Tomáš Tlu ho , Michal erný	KZ	2	2P+0C	L	PV
14Y2C1	CATIA I	KZ	2	2P+0C	L	PV
14Y2C2	CATIA II	KZ	2	2P+0C	Z	PV
14Y2CS	Sensitivity of Systems	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
17Y2FM	Financing in Urban Mass Transportation Václav Baroch	KZ	2	2P+0C	Z	PV
11Y2FX	Functions of Complex Variable	KZ	2	2P+0C	Z	PV
23Y2FB	Physics for Security Branches	KZ	2	2P+0C	Z	PV
18Y2FZ	Physical foundation of materials' properties  Jaroslav Valach	KZ	2	2P+0C	L	PV
15Y2HS	Road Transport History Eva Rezlerová, 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 Miroslav Veliš	KZ	2	2P+0C	Z	PV
12Y2KE	Landscape Ecology Kristýna Neubergová	KZ	2	2P+0C	Z	PV
21Y2LS	Air Traffic Services	KZ	2	2P+0C+8E	B L	PV
11Y2LG	Logics of Engineer's Judgement	KZ	2	2P+0C	L	PV
15Y2MS	Sociology for Managers  Martina Šmidochová	KZ	2	2P+0C	Z	PV
21Y2MK	Marketing of Air Transport Peter Vittek Peter Vittek	KZ	2	2P+0C+8E	3 Z	PV
12Y2MH	Measurement and Modeling of Traffic Noise	KZ	2	2P+0C	L	PV
18Y2MP	Finite Element Method And Its Application 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
17Y2MS	Microsimulation of Railway Operation Zden k Michl	KZ	2	2P+0C	Z	PV
21Y2MS	Aerospace Engineering Simulation and Modelling	KZ	2	2P+0C	Z	PV
12Y2MZ	Modernization of Railway Lines and Stations Dagmar Ko árková, Miroslav Veliš	KZ	2	2P+0C	L	PV
14Y2OP	Object Oriented Programming in Transport	KZ	2	2P+0C	L	PV
15Y2OZ	Health Protection in Transportation and EU  Eva Rezlerová, Petr Musil	KZ	2	2P+0C	Z	PV
15Y2OF	Specialised French for Transportation and Telecommunications	KZ	2	2P+0C	Z	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 Eva Rezlerová, 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
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 Šárka Vorá ová	KZ	2	2P+0C	L	PV
21Y2PL	Operational Aspects of Aerodromes	KZ	2	2P+0C	Z	PV
17Y2PS	Case Studies in Transportation	KZ	2	2P+0C	Z	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
17Y2RZ	Control of Transport Processes	KZ	2	2P+0C	Z	PV
15Y2SP	Seminar on Political Philosophy	KZ	2	2P+0C	Z	PV
17Y2SJ	Network Timetabling on the Railway Vit Janoš Vít Janoš (Gar.)	KZ	2	2P+0C	L	PV
16Y2ST	Special Technologies in Transport and Telecommunications	KZ	2	2P+0C	L	PV
18Y2SD	Reliability and Diagnostics, Experimental Methods	KZ	2	2P+0C	Z	PV
15Y2SR	Stylistics and Rhetorics	KZ	2	2P+0C	Z	PV
17Y2SK	Urban and Regional Rail Transport System	KZ	2	2P+0C	L	PV
15Y2TS	Technician and Contemporary Society  Jan Feit, Eva Rezlerová	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
21Y2TL	Development Trends of Aircraft Construction	KZ	2	2+0	Z	PV
12Y2UD	Sustainable Transportation	KZ	2	2P+0C	L	PV
14Y2UI	Artificial Intelligence	KZ	2	2P+0C+8B	Z,L	PV
20Y2UA	Artificial Neural Networks, Realization and Applications	KZ	2	2P+0C	Z	PV
18Y2UB	Accident Biomechanics and Safety	KZ	2	2P+0C	L	PV
23Y2VZ	Leadership and Human Resource Development	KZ	2	2P+0C	L	PV
21Y2VA	Selected Chapters of Aerodynamics	KZ	2	2P+0C+8B	L	PV
18Y2VC	Computational Mechanics in Transportation Radek Kolman	KZ	2	2P+0C	L	PV
23Y2VR	Cope with Risks in Engineering Branches  Danuše Procházková	KZ	2	2P+0C		PV
12Y2VT	High Speed Railways	KZ	2	2P+0C	Z	PV
12Y2ZK	Traffic Calming Zuzana arská	KZ	2	2P+0C	Z	PV
23Y2ZM	Intelligence Means and Methods Miloslav Ku era	KZ	2	2P+0C	Z	PV
haracteristics of	f the courses of this group of Study Plan: Code=Y2-NP 18/19 Name	=PVP nav.pr	ez.(DS.	LA) 18/19		
17Y2AM	Application of Marketing Tools in Transportation	-		K	ZZ	2
application of marketin	g principles in transport issues, marketing tools suitable for transport, case studies of the use	e of marketing in	tne spher	e of public pass	senger trans	port.

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 public passenger transport.						
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.					
23Y2BP	Security Class	KZ	2			
	cs include data management, data and text mining applications, terrorism informatics, deception and intent detection, terrorism	st and criminal so	cial network			
analysis, crime analysis	s, cyber-infrastructure protection, transportation infrastructure security, and information assurance, among others.					
21Y2BS	Unmanned aircraft systems 2	KZ	2			
Modern trends in unmar	ned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights	s beyond the appli	cable legislation.			
14Y2C1	CATIA I	KZ	2			
Fundaments of working with CATIA, making basic parts and bodies. Making 2D sketches, geometric stucture, parametric linking, making adaptive models from 2D sketches. Import						
and export of made parts and bodies. Making assemble and visualization.						

14Y2C2 CATIA II	KZ	2
Extension of basic course. Modeling compound bodies. Possibility of enumeration, comunications with other systems. Surface x solid bodies.	Kinematic mechanism. P	roject making
and project cooperation. Outputs of projects.	1	
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, matrices and their usability in system design.	delinition of sensitivity if	unctions and
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, exhaus	l l	
in traffic, traffic accident, traffic psychology in the internet etc.)	, 0 0	
18Y2DC Dynamics of Transport Routes and Vehicles	KZ	2
Basic theory and calculations of more mass systems. Analysis of the forces acting between the vehicle and transport route. Creation of dynamic		•
Vibration of systems with a finite number of degrees of freedom. Methods of stiffness constants and pliability constants. Fundamentals of vibration of specimental methods in dynamics.	on of bridges. Criteria for	the admissibility
of oscillation. Experimental methods in dynamics.  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. Unc	1 1	
UMT types. UMT development in small towns. Particularities of investment and operation financing of individual UMT types. Historic and present and operation financing of individual UMT types.	-	-
inspection and blind passengers. Tourism & DMT. UMT typology & DMT		
11Y2FX Functions of Complex Variable	KZ	2
Derivation of complex function, holomorphic function, complex exponential series, integration, Cauchy theorem. Taylor series, Laurent series of tapleas and 7 transformation.	of complex variable funct	tion. Basics of
Laplace and Z-transformation.  22Y2FD  Devices for Security Properties	V7	2
23Y2FB Physics for Security Branches Grounds of physics of substances and phenomena at extreme conditions. Grounds of rheology. Physics of Earth's interior. Geophysics. Physic	cs of atmosphere Applic	2
dengineering branches directed to safety.	оз от антоэрного. Аррио	adono in
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 or	f environment and loadin	ng on materials'
behavior are the main discussed topics.		
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		
1st part of 20th century. 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.	nent of road travelling in	modern period.
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 vit		
physical values, ways of measuring, prevention, elimination. Exhausts - creation, measurement, reduction, non-regular fuels and drives. Ergono	my - sitting, standing, cor	ntrol, operational
reach. Condition - heating, ventilation, air-conditioning, filtration, tiredom.		
14Y2IS Intelligent Systems in Postal Services	l KZ l	2
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The use of information systems in the postal services (ITIS, and POST, T + T, PS, KMP, DS), application of information technology in the proc	essing of mail processing	g nodes in the
	essing of mail processing	g nodes in the
The use of information systems in the postal services (ITIS, and POST, T + T, PS, KMP, DS), application of information technology in the proc postal network, optimizing logistics processes in the post. The appreciation of the real implementation of the Czech post in operation both in lect	essing of mail processing	g nodes in the
The use of information systems in the postal services (ITIS, and POST, T + T, PS, KMP, DS), application of information technology in the proc postal network, optimizing logistics processes in the post. The appreciation of the real implementation of the Czech post in operation both in lect desk.	essing of mail processing ures and in the framewor	g nodes in the k of the practical
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12Y2MH Measurement and Modeling of Traffic Noise	KZ	2
Theoretical introduction to noise from traffic. Noise from rail transport. Noise from road traffic. Measurement and calculation of noise from rail traffic. noise from road traffic. Modelling of traffic noise in the CADNA A.	. Measurement and	d calculation of
18Y2MP Finite Element Method And Its Application	KZ	2
Basic mathematical formulation of the Finite Element Method. Direct Stiffness Method used in structural mechanics. Evaluation of stiffness matrices	1	_
variational principles. Element formulation (bar and beam elements, CST, LST, quadrilateral, tetrahedral and brick elements). Natural coordinates, n	atural shape funct	ions and
isoparametric representation. Numerical integration. Introduction to dynamics. FEM programming.		
16Y2MK Quality Methods for Vehicles	KZ	2
Quality management methods list, customer data acquisition and analysis of customer requirements, QFD, DFM, DFA, DFS. FMEA (Failure mode e	ffect analysis). Ele	ments of parallel
(team) design.  12Y2MD Methods of Traffic Regulation and Prediction	KZ	2
12Y2MD   Methods of Traffic Regulation and Prediction  Basic ways of traffic prognosis, traffic prognosis for large area (calculation of future traffic volumes, calculation of future traffic volumes between areas	1	
modal split, traffic distribution to road network). Shock wave in traffic flow. Service levels and their traffic volumes. Acceleration noise.	(	,
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 co	ncept on the given	infrastructure,
adaptation of the infrastructure model and modification to the infrastructure to allow the implementation of the proposed operational concept. Stability	ty tests and evalua	tions. Evaluation
of sensitivity of the operational concept to delays.	1/7	0
21Y2MS Aerospace Engineering Simulation and Modelling The course is designed as a set of exemplary tasks and problems based on practical aviation issues. The university degree mathematic skills and s	oftware application	2
necessary for successful figuring out. Both simple tasks, where students create own model themselves (e.g. in Matlab), and more complicated problems		•
tools will be applied.		
12Y2MZ Modernization of Railway Lines and Stations	KZ	2
Line speed increasing. AGC and AGTC Agreement. AGC and AGTC railway network. Principles of modernization (conceptual papers, definitions of bath	•	
Track geometrical characteristics on modernized railway lines. Superstructure and substructure on upgraded lines. Designing of railway stations. Bri	idges and tunnels.	Development
and realization of projects. Technical description of the tranzit corridors.	1/7	
14Y2OP Object Oriented Programming in Transport Class, object, encapsulation, inheritance, polymorphism, templates, retyping, stream, exceptions, repository, collections, virtual methods and classe	KZ	wil he chosen
from microscopic simulation system, discrete event simulation, celular automata simulation and virtual life area.	53. 1 TODICITI 04303	WII DC CHOSCH
15Y2OZ Health Protection in Transportation and EU	KZ	2
Health protection in transportation in CR in the past and present. Conditions before 1989 and after, current legislature, future prospects. Harmonisa	tion of legislation v	vith other EU
members. Fundamental principles of health protection and support in selected EU countries.		
15Y2OF Specialised French for Transportation and Telecommunications	KZ	2
Basic transportation (public transport, railway, air, road and ship transport) and telecommunications terminology. Special focus on independent spec		
16Y2PG Computer Graphics and Virtual Reality	KZ	2
Principles of creation and processing of bitmap and vector 2D graphics, 3D virtual scenes and algorithms used for their computerized processing. Adoption 1. (2D 2D 2	_	with professional
and treeware tools for creation and processing of 213, 313 and interactive drappics, and pasics of programming landuage VRIVII, and drappic libraries	: (OnenGL)	
and freeware tools for creation and processing of 2D, 3D and interactive graphics, and basics of programming language VRML and graphic libraries  22Y2PS  Traffic Accidents Computer Simulation and Analysis		2
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Vehicle dynamics simulation, multi body systems and vehicle active safety systems, vehicle slipping, external influence on virtual model, crash tests vehicle passangers, pedestrian, traffic accident simulation and analysis.  15Y2PT   Food in Transportation The nutrition policy. Interaction transportation and foodstuffs. The health risks. Hygienic safeguard. The practical examples from the Czech Republic dining cars, work trains and other railroad equipment. Legislation.  15Y2PD   Practical Spanish for Transportation Development of communication skills, training of correct written expression of formal character, basic technical vocabulary, cultural specifics of the steminology of transport and commerce.  21Y2PP   Law and Operation in Air Transport Development of aviation law. International conventions on civil aviation. International organisations and including of the Czech Republic in these organism. Internation of state administration and state supervision in matters of civil aviation, in accordance with Act No. 49/1997 Col. Facilitation. Respassengers, luggage and cargo. The safe transport of dangerous goods.  20Y2PR   Prediction of time series prediction, meaning of prediction, basics of quantitative prediction. Methods for predictive quality evaluation, descriptive st prediction, prediction for general formula of loss function. Calculation and programming environment R. Regression models, basics of linear regress regression, statistical tests of linear dependence, selection of input variables.  14Y2PI   Process Information Systems in Transportation   Introduction and detailed usage of transport information systems in Transportation   Introduction and detailed usage of transport information systems in Transportation   Introduction to CAD interface Programming language. Class, object, constructor, destructor, inheritance, abstract class, virtual methods, exceptioned programming and programming languages. Possibilities of proper objects (comrapplications creation in CAD objects in programming in MATLAB   Progr	KZ s evaluation, single KZ s and from the worl KZ Spanish speaking KZ spanisations. EU leg sponsibilities of air KZ atistics, MAE, MAF sion, simple regres KZ n architecture of the included lectures KZ ons, streams, meth KZ mands), dialogues KZ data fitting and des	track vehicle,  2 d. The issues of  2 countries.  2 islation and civil carriers for  2 PE, RMSE, naive sion. Multiple  2 nis system and and visits.  2 nod and operator  2 signing GUI in  2
Vehicle dynamics simulation, multi body systems and vehicle active safety systems, vehicle slipping, external influence on virtual model, crash test vehicle passangers, pedestrian, traffic accident simulation and analysis.  15Y2PT   Food in Transportation The nutrition policy, Interaction transportation and foodstuffs. The health risks. Hygienic safeguard. The practical examples from the Czech Republic dining cars, work trains and other railroad equipment. Legislation.  15Y2PD   Practical Spanish for Transportation Development of communication skills, training of correct written expression of formal character, basic technical vocabulary, cultural specifics of the starminology of transport and commerce.  21Y2PP   Law and Operation in Air Transport Development of aviation law. International conventions on civil aviation. International organisations and including of the Czech Republic in these organisation. Execution of state administration and state supervision in matters of civil aviation, in accordance with Act No. 49/1997 Col. Facilitation. Respassengers, luggage and cargo. The safe transport of dangerous goods.  20Y2PR   Prediction of time series Introduction to time series prediction, meaning of prediction, basics of quantitative prediction. Methods for predictive quality evaluation, descriptive st prediction, prediction for general formula of loss function. Calculation and programming environment R. Regression models, basics of linear regress regression, statistical tests of linear dependence, selection of input variables.  14Y2Pl   Process Information Systems in Transportation Introduction and detailed usage of transport information systems, e.g. EFC, ePurse and transport check-in systems for public transport with focus or SoA (Service Oriented Architecture). Inforamtion systems implementation and operations description in the Czech Republic (technical and process 14Y2P)   C++ Programming Language OP philosophy and basics of C++ programming language. Class, object, constructor, destructor, inheritance, abs	KZ s evaluation, single KZ s and from the worl KZ Spanish speaking KZ ganisations. EU leg sponsibilities of air KZ atistics, MAE, MAF sion, simple regres KZ n architecture of the included lectures KZ cons, streams, meth KZ mands), dialogues KZ data fitting and december and dece	track vehicle,  2 d. The issues of  2 countries.  2 islation and civil carriers for  2 PE, RMSE, naive sion. Multiple  2 nis system and and visits.  2 nod and operator  2 signing GUI in  2 n under winter
Vehicle dynamics simulation, multi body systems and vehicle active safety systems, vehicle slipping, external influence on virtual model, crash tests vehicle passangers, pedestrian, traffic accident simulation and analysis.  15Y2PT Food in Transportation The nutrition policy, Interaction transportation and foodstuffs. The health risks. Hygienic safeguard. The practical examples from the Czech Republic dining cars, work trains and other railroad equipment. Legislation.  15Y2PD Practical Spanish for Transportation Development of communication skills, training of correct written expression of formal character, basic technical vocabulary, cultural specifics of the Sterminology of transport and commerce.  21Y2PP Law and Operation in Air Transport Development of aviation law. International conventions on civil aviation. International organisations and including of the Czech Republic in these orgaviation. Execution of state administration and state supervision in matters of civil aviation, in accordance with Act No. 49/1997 Col. Facilitation. Repassengers, luggage and cargo. The safe transport of dangerous goods.  20Y2PR Prediction of time series Direction for general formula of loss function. Dalculation and programming environment R. Regression models, basics of linear regress regression, statistical tests of linear dependence, selection of input variables.  14Y2PI Process Information Systems in Transportation Introduction and detailed usage of transport information systems, e.g. EFC, ePurse and transport check-in systems for public transport with focus os SOA (Service Oriented Architecture). Inforamtion systems implementation and operations description in the Czech Republic (technical and process 14Y2PJ C++ Programming language. Class, object, constructor, destructor, inheritance, abstract class, virtual methods, exception verticading, abstract data type implementation in C++.  14Y2PH CAD Interface Programming lenchiques with the help of LIST and VBA programming languages. Possibilities of proper objects (comapplic	KZ s evaluation, single KZ s and from the worl KZ Spanish speaking KZ spanisations. EU leg sponsibilities of air KZ atistics, MAE, MAF sion, simple regres KZ n architecture of the sion included lectures KZ ons, streams, meth KZ mands), dialogues KZ data fitting and december and	track vehicle,  2 d. The issues of  2 countries.  2 islation and civil carriers for  2 PE, RMSE, naive sion. Multiple  2 nis system and and visits.  2 nod and operator  2 signing GUI in  2 n under winter  2
Vehicle dynamics simulation, multi body systems and vehicle active safety systems, vehicle slipping, external influence on virtual model, crash test vehicle passangers, pedestrian, traffic accident simulation and analysis.  15Y2PT   Food in Transportation The nutrition policy, Interaction transportation and foodstuffs. The health risks. Hygienic safeguard. The practical examples from the Czech Republic dining cars, work trains and other railroad equipment. Legislation.  15Y2PD   Practical Spanish for Transportation Development of communication skills, training of correct written expression of formal character, basic technical vocabulary, cultural specifics of the starminology of transport and commerce.  21Y2PP   Law and Operation in Air Transport Development of aviation law. International conventions on civil aviation. International organisations and including of the Czech Republic in these organisation. Execution of state administration and state supervision in matters of civil aviation, in accordance with Act No. 49/1997 Col. Facilitation. Respassengers, luggage and cargo. The safe transport of dangerous goods.  20Y2PR   Prediction of time series Introduction to time series prediction, meaning of prediction, basics of quantitative prediction. Methods for predictive quality evaluation, descriptive st prediction, prediction for general formula of loss function. Calculation and programming environment R. Regression models, basics of linear regress regression, statistical tests of linear dependence, selection of input variables.  14Y2Pl   Process Information Systems in Transportation Introduction and detailed usage of transport information systems, e.g. EFC, ePurse and transport check-in systems for public transport with focus or SoA (Service Oriented Architecture). Inforamtion systems implementation and operations description in the Czech Republic (technical and process 14Y2P)   C++ Programming Language OP philosophy and basics of C++ programming language. Class, object, constructor, destructor, inheritance, abs	KZ s evaluation, single  KZ s and from the worl  KZ Spanish speaking  KZ spanisations. EU leg sponsibilities of air  KZ atistics, MAE, MAF sion, simple regres  KZ n architecture of the sion included lectures  KZ ons, streams, meth  KZ mands), dialogues  KZ data fitting and decentions. Coperations. Coperations.	track vehicle,  2 d. The issues of  2 countries.  2 islation and civil carriers for  2 PE, RMSE, naive sion. Multiple  2 nis system and and visits.  2 nod and operator  2 signing GUI in  2 n under winter  2 dents will each

15Y2PU	Publications and Their Creation	KZ	2
	controllers and references. Exploration of facts. Quotations. Formal document layout. Working with information databases. Typo		1
	/LaTeX. Practical creation of simple scientific documents.		
12Y2RD	Realization of Transport Buildings	KZ	2
17Y2RZ	pes. Project Documentation Types. Building Code. Land Permission and Building Permission Process. Building Process. Project Control of Transport Processes	KZ	2
	Control of Hansport Frocesses isport system, decomposition, factors influencing control, quality diagnosis, methods of control, systems for decision making s	1	_
telematics.		,	,
15Y2SP	Seminar on Political Philosophy	KZ	2
Interpreting of philosop	hical texts, view of society, state and their system of government.		
17Y2SJ	Network Timetabling on the Railway	KZ	2
	pacity allocation, technological intervals in railway operation. Rules and regulations of train paths, running times, time adds a ules of train-diagramm creating. Timetables for more service-levels on the line. Construction slot conflicts between passenger-		_
1 -	mes, timetables for lines under construction.	and neight transp	ort. Network line
16Y2ST	Special Technologies in Transport and Telecommunications	KZ	2
Micro, nano and specia	al technologies, electric arc and its applications, plasma technologies, dipping, beam technologies, electron beams technolog	y in roduction and	mending of
	er technologies, soldering, gluing, ultrasound, diffusion, friction and explosion technologies, micro stoves, gas.	_	,
18Y2SD	Reliability and Diagnostics, Experimental Methods	KZ	2
	on theoretical background and practical experience in the field of reliability of constructions, implementation of diagnostic proce tion of residual life of structures. For this purpose, non-destructive methods of experimental mechanics (e.g. strain-gauge mea		
	tion of restaud file of structures. For this purpose, non-destructive methods of experimental mechanics (e. g. strain-gauge mea ling electron microscopy, will be used.	surement, priotoe	nasticimetry) and
15Y2SR	Stylistics and Rhetorics	KZ	2
Basic skills of oral and	written expression as a means of human communication. Basic information about speech, articulation, oral and written langu	। age. Teaching to ः	speak well-vocal
organs, voice training. I	Language semantics, language syntactic and the pragmatic aspect. Creative thought and its oral and written expression. Practi	ce - cultivating the	skills of speech.
17Y2SK	Urban and Regional Rail Transport System	KZ	2
_	nsport demand, modal-split, traffic flows distribution on public transit network. Line network optimization and configuration. Tin		
of public transport. Mai	eriodic timetable. Rolling stock circulation, staff and crew services optimization and their order to rosters. Framework legislation,	non-parrier effect	s and preference
15Y2TS	Technician and Contemporary Society	KZ	2
1	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 o	l	
1 '	pers, what are the sights for, interest in public affairs - a hangover from the past?	,	
20Y2TE	Technology of Electronic Systems	KZ	2
1 '	for an effective operation of electronically controlled systems. Maintaining, meassuring, optimization of safety and reliability of	complex systems	s. Semiconductor
	ircuits, assembly operations, interconnection and repairs technologiesusers and operators.	1/7	
14Y2TU	Telecommunications Systems and Multimedia nunications namely applied in transport solutions, identification and quantification of telecommunications networks and services	KZ	2
	ning of guaranteed service quality, two generations of the handover principles.	s periormance bas	sed off redundant
16Y2TT	Transportation and Building Technology and Equipment	KZ	2
Transportation and buil	lding technology and equipment. Transport of solid and mass material, soil and rock above all. Highway and underground cons	structions. Transpo	ort surface
1	nd construction features, delivered mass calculation, economy of operation. Technics and technology of underground construction features, delivered mass calculation, economy of operation.	tions. Terrestrial ve	ehicles operation
	logy (ultrasound, laser, GPS, total stations).	1/7	
21Y2TL	Development Trends of Aircraft Construction ys trends. Future scenarios. Space industry. Economy.	KZ	2
12Y2UD	Sustainable Transportation	KZ	2
_	ent, definition, history, legal framework. Sustainable development indicators. Sustainable transportation, definition, history, leg-	I	l .
1	ment theory, case study.		
14Y2UI	Artificial Intelligence	KZ	2
	lligence, knowledge, its representation including frames, state space search, constraints, genetic algorithms, machine learning		
20Y2UA	Artificial Neural Networks, Realization and Applications	KZ	2
1 -	orks. Basic principles. Comparing the structure of a natural and an artificial neuron. Neural classificators, predictors, compresors estems. Modelling of neurons. Grossberg's equations. Learning principles. Leyered and Hopfield's nets.	s, expanders and o	otrier specialised
18Y2UB	Accident Biomechanics and Safety	KZ	2
	ods of Medical Diagnostics - RTG, CT, MRI, US. Dynamics of traumatic events. Factors influencing the severity of an accident	1	
Injuries in road traffic. I	Pedestrian injuries. Injury in railway and air traffic accidents. Analysis of biomechanical events in accidents and their computation	ional modeling. P	rinciples of
	ation. Protective elements and safety measures in transport.		1
23Y2VZ	Leadership and Human Resource Development	KZ	2
	ty of human resources, human resources management, corporate goals, strategies, cultural and ethical aspects. Team manag in human resources, ethics and corporate culture, cross-cultural differences. The labor code. Introduction into protocols.	jernent, communi	cation in teams,
21Y2VA	Selected Chapters of Aerodynamics	KZ	2
	eal gases, atmosphere, aeronautical applications of external and internal aerodynamics, compressible internal flow, inlet nozzle	I	_
external flow, supercrit	ical wings and profiles, vertical and oblique shock wave, energy losses, aeronautical aerodynamic profiles of wings, propeller	s, blades gratings	, lift, drag, polar,
	urbulent flow, boundary layer.		
18Y2VC	Computational Mechanics in Transportation	KZ	2
1	k and variational principles in FEM. Bar shaped, planar and three - dimensional structures in FEM. FEM in statics and in dyna nd viscoelastic material. FEM in problems of biomechanics. Numerical analysis of structural parts with programme ANSYS on		auonai systems.
23Y2VR	Cope with Risks in Engineering Branches	KZ	2
	ranches directed to risks, procedures used in risk engineering, ensuring the secured systems, ensuring the safe systems, ens	I	I
12Y2VT	High Speed Railways	KZ	2
1	transport characteristics and position in transportation system. HSR vehicles types and characteristics and control-command a		-
1 -	thesion HSR systems. City traffic service by HSR. HSR operating points. HSR worldwide network. HSR routing and traffic con	ception. Specifics	of HSR track
construction and geom	netrical characteristics.		

12Y2ZK Traffic Calming KZ 2

Principles of traffic collision of road potwork organization. Urban road lowerts Psychological and physical chatagles (maccures of traffic collision) and their combination.

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.

23Y2ZM Intelligence Means and Methods KZ 2
History and the present of intelligence services and their role in the modern world. How intelligence services handle with information. Methods and procedures of collecting and evaluating information. Means of intelligence services. Internal and external intelligence, military intelligence. The means and methods of state security services. Cooperation among Intelligence services within NATO, EU. The organization of the intelligence services.

Name of the block: Jazyky

Minimal number of credits of the block: 8

The role of the block: J

Code of the group: JZ-N-14/15

Name of the group: Jazyk nav.1.-4.sem. od 14/15 (pro obory v N3710) 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:

note on the grou	μ.					
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 Eva Rezlerová, Irena Veselková	Z	2	0P+2C+10B	Z	J
15J2l1	Language - Italian 1 Eva Rezlerová, 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, Eva Rezlerová	Z	2	0P+2C+10B	Z	J
15J2S1	Language - Spanish 1 Eva Rezlerová, Nina Hricsina Puškinová	Z	2	0P+2C+10B	Z	J
15JBF2	Language - French 2 Eva Rezlerová, Irena Veselková	Z	2	0P+2C+10B	L	J
15JBI2	Language - Italian 2 Eva Rezlerová	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, Eva Rezlerová	Z	2	0P+2C+10B	L	J
15JBS2	Language - Spanish 2 Eva Rezlerová, Nina Hricsina Puškinová	Z	2	0P+2C+10B	L	J
15JBF3	Language - French 3 Eva Rezlerová, Irena Veselková	Z	2	0P+2C+10B	Z	J
15JBI3	Language - Italian 3 Eva Rezlerová, 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, Eva Rezlerová	Z	2	0P+2C+10B	Z	J
15JBS3	Language - Spanish 3 Eva Rezlerová, Nina Hricsina Puškinová	Z	2	0P+2C+10B	Z	J
15JBF4	Language - French 4 Eva Rezlerová, Irena Veselková	ZK	2	0P+2C+10B	L	J
15JBI4	Language - Italian 4 Eva Rezlerová	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, Eva Rezlerová	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-N-14/15 Name=Jazyk nav.1.-4.sem. od 14/15 (pro obory v N3710)

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

Z | 2 back skills, summarisin

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	Z	2
	s and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative sk		- 1
technical text content, s language of manageme	structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and	technical register	s and their use,
15J2R1	Language - Russian 1	Z	2
	paniguage - indistraint is and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative sk		
	structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and		
language of manageme	ent.		
15J2S1	Language - Spanish 1	Z	2
	s and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative sk		
	structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and	technical register	s and their use,
language of manageme			0
15JBF2 Grammatical Structures	Language - French 2 said said to transportation sciences. Developing perceptive and communicative sk	Z Z	2 c. cummaricina
	structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and		
language of manageme		. tooriiiioai rogioto.	o aa a acc,
15JBI2	Language - Italian 2	Z	2
Grammatical Structures	s and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative sk	ills, feedback skill	s, summarising
	structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and	technical register	s and their use,
language of manageme			_
15JBN2	Language - German 2	Z	2
	s and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative sk structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and		
language of manageme		i tecililicai registei	3 and then use,
15JBR2	Language - Russian 2	Z	2
	s and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative sk	. – .	
technical text content, s	structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and	technical register	s and their use,
language of manageme	ent.		
15JBS2	Language - Spanish 2	Z	2
	s and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative sk		- 1
	structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and	technical register	s and their use,
language of manageme		7	0
15JBF3 Grammar and stylistics	Language - French 3 Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement	of language struct	2 ure knowledge
-	nmunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo		-
	al and written presentation.	u	.,
15JBI3	Language - Italian 3	Z	2
Grammar and stylistics.	Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement	of language struct	ure knowledge
	nmunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	ork with (profession	nal) text and its
	al and written presentation.		
15JBN3	Language - German 3	Z	2
-	. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of municative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo		- 1
	al and written presentation.	(р. с. с с с. с.	iai, tom and no
15JBR3	Language - Russian 3	Z	2
	Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement	of language struct	ure knowledge
and perceptive and com	nmunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	ork with (profession	nal) text and its
features. Practice of ora	al and written presentation.		
15JBS3	Language - Spanish 3	Z	2
•	Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement		
	nmunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo al and written presentation.	ork with (profession	nai) text and its
15JBF4	Language - French 4	ZK	2
	Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement	1 1	
=	nmunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo		- 1
features. Practice of ora	al and written presentation.		
15JBI4	Language - Italian 4	ZK	2
•	Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement		
	nmunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	ork with (profession	nal) text and its
	al and written presentation.	71/	0
15JBN4 Grammar and stylistics	Language - German 4 Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement	ZK	2 ure knowledge
•	r selection of conversation and professional topics based on the language level and study locus at the Faculty. Improvement of numbers and study locus at the Faculty. Improvement of numbers still be said to the Faculty. Improvement of the language level and study locus at the Faculty. Improvement of the language level and study locus at the Faculty. Improvement of the language level and study locus at the Faculty. Improvement of the language level and study locus at the Faculty. Improvement of the language level and study locus at the Faculty. Improvement of the language level and study locus at the Faculty. Improvement of the language level and study locus at the Faculty. Improvement of the language level and study locus at the Faculty. Improvement of the language level and study locus at the Faculty.		
	al and written presentation.	(1.2.000)	,
15JBR4	Language - Russian 4	ZK	2
	Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement	1 1	
	nmunicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo	ork with (profession	nal) text and its
	al and written presentation.		
15JBS4	Language - Spanish 4	ZK	2
=	. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement on municative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo		- 1
	nmunicative skills, vocabulary development. Basic styllstic forms. Presentation of own knowledge in oral and written form. Wo al and written presentation.	ar with (biolessior	iai) text aliù its
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## List of courses of this pass:

Code	Name of the course	Completion	Credit
11STS	Stochastic Systems	Z,ZK	4
	the problems of mathematical modelling of dynamical systems, estimation od these models and their utilization for prediction tasks. Mathematical theory roots from probability and mathematical statistics and they use the methods of the Bayesia.		
11THRO	Queuing Theory	ZK	2
·	definition, random distribution, and probability. Basic processes, process of revitalisation. Markov process, Markov models, Ken M/n. Non-markovian models, model M/C/n, models G/G/n. Models with continuous flow. Service net, examples of Petri net. Co		odel M/M/
11XN1	Master Project 1	Z	2
11XN2	Master Project 2	Z	2
11XN3	Master Project 3	Z	1
11XN4	Master Project 4	Z	8
11XNDP	Master Thesis	KZ	18
11Y2FX	Functions of Complex Variable	KZ	2
	unction, holomorphic function, complex exponential series, integration, Cauchy theorem. Taylor series, Laurent series of comp Laplace and Z-transformation.	1	_
11Y2LG	Logics of Engineer's Judgement	KZ	2
	ineer's judgement, its propositional and predicative logical base. Solutions of logical tasks through the methods of truthfulness	I .	I
	Venn's diagram method. Logical basis for network design for the solution of technical tasks.		
11Y2PM	Programming in MATLAB	KZ	2
To explain the principle	of modelling and simulation, description of Matlab environment and its settings, optimization and program code debugging, de Matlab.	ata fitting and desigr	ning GUI i
12BA	Road Safety Audit	KZ	2
	is of safety assessments during the process of preparations, and of the particular realization of the road network that should ne who take part in road traffic. Road safety survey. Application of European Directive 2008/96/EC on road safety infrastructure	ninimize traffic accid	ent risks
12DOUP	Transport and Land - Use Planning	Z,ZK	3
xplanation of fundame	ntal relation and connection between transport and territory, fundamentals of traffic layout. Land - use planning. Influence of tra g principles of different transport modes including pedestrian traffic and cycling transport. Traffic calming, parking. Complex tra	affic on area and sha	ape of tow
12DZP	Transport and Environment	Z	2
his course aims the imp	pact of transport on environment. The accent is put mainly on noise and vibration, emission, barrier effect and energy demands parcel of this course.	i. The noise measury	y is part a
12IDOS	Integrated Transport Systems	ZK	3
Reasons for building o	f integrated transport systems, principle of integration, dividing of integration methods, traffic, infrastructure, technical, organiz tariff, sales systems, information systems, marketing of system, examples of non-integration.	ational methods, inte	egration o
12IKOD	Rail Transport Infrastructure	Z,ZK	5
	al acceleration, Parameters eduction for transition curve and cant transition, curves without straight, track spacing change. Rai . Continuous welded rail theory. Substructure, slab track. Tram-train. Interoperability. Noise precautions. Railway lines rationalis operating points trackages, passenger buildings and forecourts. Sidings, terminals.		-
12NAP	Design and Operation of Traffic Engineering Facilities	Z,ZK	6
ast and present of the to	unnel construction and design, technological systems at bridges and tunnels and its design, traffic and safety system, risk analys durability of facilities.	s,bridges and tunne	ls operatio
12TEPR	Theory of Road Traffic Operation	Z,ZK	8
	ters and their measurement, traffic sensors. The concept of capacity analysis. Theoretical foundations and application of simul y of traffic management of intersections, urban areas and highways. Green Wave and priority of public transport. Identification Principles and methods of evaluation of roads maintenance.		
12TKV	The Theory of Pavement Layers in Highway Engineering	Z,ZK	3
	ns in highway engineering - material aspects of roads and highways. The course covers evolution of highway engineering since		I
Si hanoportatio	with the emphasis of material aspects.		
12XN1	Master Project 1	Z	2
12XN2	Master Project 2	Z	2
12XN3	Master Project 2  Master Project 3	Z	1
12XN4	Master Project 3  Master Project 4	Z	8
12XNDP	Master Thesis	KZ	
			18
12Y2BM   classification of road acc	Safety on The Local Roads  idents rates, social looses. Collision points, diagrams. Tools and methods for safer road transportation. Crossroads from the poir right of way. Roundabouts. Pedestrian transport, cyclists. Traffic lights coordination. Transport control and regulation.	KZ nt of view of safety. Ps	2 sychologic
12Y2IS		KZ	2
	Urban Networks  position of UN as public and technical infrastructure / utillities, metodology of the UN master planning, of UN design, UN coor operation (basic technical standards of UN, trenchless technologies for UN).		2 tion and U
12V2KE			
12Y2KE	Landscape Ecology  Indecape - definition, types, evolution, Landscape systems, Anthropogenic impacts on landscape, Methods using for evaluation	KZ	deometry
Lanuscape ecology. La		j ianuscape. Flacial	geometry
санизоаре есоюду. La	andscape - definition, types, evolution. Landscape systems. Anthropogenic impacts on landscape. Methods using for evaluating and its potential applications in landscape ecology. Landscape planning.	j ianuscape. Fractal	geom

12Y2KS	Rail Transport in Settlements and Regions	KZ	2
Modernization an	d development of railway infrastructure in Czech Republic. Arrangement of railway networks and junctions. Suburban railway service	es. Network configu	ration and
opera	ation of metro systems. Network configuration and operation of tram systems. Special thematic lectures (rail transport in selected cou	untries / regions).	
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 (and		tic methods,
	modal split, traffic distribution to road network). Shock wave in traffic flow. Service levels and their traffic volumes. Acceleration		
12Y2MH	Measurement and Modeling of Traffic Noise	KZ	2
Theoretical introdu	uction to noise from traffic. Noise from rail transport. Noise from road traffic. Measurement and calculation of noise from rail traffic. Me	easurement and ca	lculation of
	noise from road traffic. Modelling of traffic noise in the CADNA A.		
12Y2MZ	Modernization of Railway Lines and Stations	KZ	2
	ing. AGC and AGTC Agreement. AGC and AGTC railway network. Principles of modernization (conceptual papers, definitions of basic		
Track geometrical	characteristics on modernized railway lines. Superstructure and substructure on upgraded lines. Designing of railway stations. Bridg	jes and tunnels. De	velopment
	and realization of projects. Technical description of the tranzit corridors.		
12Y2RD	Realization of Transport Buildings	KZ	2
	Types. Project Documentation Types. Building Code. Land Permission and Building Permission Process. Building Process. Project Eco		
12Y2UD	Sustainable Transportation	KZ	2
Sustainable develo	pment, definition, history, legal framework. Sustainable development indicators. Sustainable transportation, definition, history, legal fr	ramework. Practical	application
40) (0) (T	of sustainable development theory, case study.	147	
12Y2VT	High Speed Railways	KZ	2
	CR) transport characteristics and position in transportation system. HSR vehicles types and characteristics and control-command and		-
interoperability. No	on-adhesion HSR systems. City traffic service by HSR. HSR operating points. HSR worldwide network. HSR routing and traffic conce	eption. Specifics of	nok track
10\/07\/	construction and geometrical characteristics.	V7	2
12Y2ZK	Traffic Calming ic calming. Solution of road network organization. Urban road layouts. Psychological and physical obstacles (measures of traffic caln	KZ	2 hinations
i imolpies di tialli	Traffic calming measures in crossroads. Pedestrian zones. Residential streets and zones.	mig, and their com	ωπιατί <b>υπ</b> δ.
14DSIM	Traffic Microsimulation	Z	3
	traffic microsimulation models. Introduction to the working environment application. Project processing microsimulation model in urb		-
	city assessment of level intersections, light coordination of level intersections, creating a network of public transport, parking lots, per		
14GISS	Geographical Information Systems	KZ	2
	n of saving format of space-oriented information land-survey and cartography minimum basic tasks of spatial operations principles o	1	
14XN1	Master Project 1	Z	2
	·		
14XN2	Master Project 2	Z	2
14XN3	Master Project 3	Z	1
14XN4	Master Project 4	Z	8
14XNDP	Master Thesis	KZ	18
14XNDP 14Y2C1	Master Thesis CATIA I	KZ KZ	18 2
14Y2C1		KZ	2
14Y2C1	CATIA I	KZ	2
14Y2C1	CATIA I  orking with CATIA, making basic parts and bodies. Making 2D sketches, geometric stucture, parametric linking, making adaptive mod	KZ	2
14Y2C1 Fundaments of wo	CATIA I  orking with CATIA, making basic parts and bodies. Making 2D sketches, geometric stucture, parametric linking, making adaptive mod  and export of made parts and bodies. Making assemble and visualization.	KZ dels from 2D sketch	2 nes. Import
14Y2C1 Fundaments of wo 14Y2C2 Extension of basic	CATIA I  orking with CATIA, making basic parts and bodies. Making 2D sketches, geometric stucture, parametric linking, making adaptive moderance and export of made parts and bodies. Making assemble and visualization.  CATIA II  c course. Modeling compound bodies. Possibility of enumeration, comunications with other systems. Surface x solid bodies. Kinematicand project cooperation. Outputs of projects.	KZ dels from 2D sketch	2 nes. Import 2 ect making
14Y2C1 Fundaments of word 14Y2C2 Extension of basic	CATIA I  orking with CATIA, making basic parts and bodies. Making 2D sketches, geometric stucture, parametric linking, making adaptive mode and export of made parts and bodies. Making assemble and visualization.  CATIA II  c course. Modeling compound bodies. Possibility of enumeration, comunications with other systems. Surface x solid bodies. Kinemati and project cooperation. Outputs of projects.  Sensitivity of Systems	KZ dels from 2D sketch KZ ic mechanism. Proje	2 nes. Import  2 nect making
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14Y2C1 Fundaments of word 14Y2C2 Extension of basic 14Y2CS Design of system	CATIA I  orking with CATIA, making basic parts and bodies. Making 2D sketches, geometric stucture, parametric linking, making adaptive mode and export of made parts and bodies. Making assemble and visualization.  CATIA II  c course. Modeling compound bodies. Possibility of enumeration, comunications with other systems. Surface x solid bodies. Kinemati and project cooperation. Outputs of projects.  Sensitivity of Systems  s with defined reliability. The impact of changing parameters and subsystems within a system. System sensitivity computing, definition matrices and their usability in system design.	KZ dels from 2D sketch KZ c mechanism. Proje KZ on of sensitivity fund	2 ect making 2 ections and
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14Y2C1 Fundaments of work  14Y2C2 Extension of basic  14Y2CS Design of system  14Y2IS The use of informate postal network, option  14Y2JM One-chip contraction  14Y2KI  14Y2OP Class, object, encountered.	CATIA I  orking with CATIA, making basic parts and bodies. Making 2D sketches, geometric stucture, parametric linking, making adaptive mode and export of made parts and bodies. Making assemble and visualization.  CATIA II  course. Modeling compound bodies. Possibility of enumeration, comunications with other systems. Surface x solid bodies. Kinematic and project cooperation. Outputs of projects.  Sensitivity of Systems Is with defined reliability. The impact of changing parameters and subsystems within a system. System sensitivity computing, definition matrices and their usability in system design.  Intelligent Systems in Postal Services ation systems in the postal services (ITIS, and POST, T + T, PS, KMP, DS), application of information technology in the processing of imizing logistics processes in the post. The appreciation of the real implementation of the Czech post in operation both in lectures and in desk.  One-Chip Controllers rollers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed  Capital Investment in Transportation and Telecommunications Financial market, investment desicion making - long term goals and investment strategies, long term financing  Object Oriented Programming in Transport apsulation, inheritance, polymorphism, templates, retyping, stream, exceptions, repository, collections, virtual methods and classes.  from microscopic simulation system, discrete event simulation, celular automata simulation and virtual life area.	KZ dels from 2D sketch  KZ c mechanism. Project  KZ on of sensitivity function of sensitivity function of the framework of the framework of the framework of the framework of the KZ  with the aid of AVR  KZ Problem cases wil	2 ect making  2 ctions and  2 cdes in the che practical  2 chips.  2 be chosen
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15J2F1	Language - French 1	Z	2
Grammatical Struct	ures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, t	feedback skills, s	ummarisii
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15J2I1	Language - Italian 1	Z	2
Grammatical Struct	ures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, t	feedback skills, s	ummarisii
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15J2N1	Language - German 1	Z	2
Grammatical Struct	ures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	feedback skills, s	ummarisir
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15J2R1	Language - Russian 1	Z	2
Grammatical Struct	ures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	feedback skills, s	ummarisiı
echnical text conter	nt, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tech language of management.	nnical registers a	nd their us
15J2S1	Language - Spanish 1	Z	2
	ures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills,	feedback skills, s	ummarisir
echnical text conter	nt, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tech	nnical registers a	nd their us
45 10 40	language of management.	7	
15JBA2	Language - English 2 esentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work e	Z	2
15JBA3	Language - English 3	Z	2
	- expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Opti	_	_
45.154.4	FCE, CAE.	717	
15JBA4	Language - English 4	ZK	2
Presentation Skills	- expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Opti FCE, CAE.	onal courses for	certificate
15JBF2	Language - French 2	Z	2
Grammatical Struct	ures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, t	feedback skills, s	ummarisir
echnical text conter	nt, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tech language of management.	nnical registers a	nd their us
15JBF3	Language - French 3	Z	2
Grammar and stylis	tics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la	nguage structure	knowledg
and perceptive and	communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w features. Practice of oral and written presentation.	rith (professional)	text and i
15JBF4	Language - French 4		
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ا Grammar and stylis	tics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la	ZK nguage structure	2 knowledg
' <del>-</del>	stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w	nguage structure	knowledg
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15XN3	15XN2	Master Project 2	Z	2
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15Y2DN				-
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Introduction into broader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, getting of driving licence, children in traffic, traffic acident, traffic psychology in the internet etc.)  15Y2HS   Road Transport History   Road Transport   Road Transport History   Road Trans				
Intraffic, traffic accident, traffic psychology in the internet etc.)    Sty2HS	-			-
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editors - MS Word, Tex/LaTeX. Practical creation of simple scientific documents.  15Y2SP Seminar on Political Philosophy Interpreting of philosophical texts, view of society, state and their system of government.  15Y2SR Stylistics and Rhetorics KZ 2  Basic skills of oral and written expression as a means of human communication. Basic information about speech, articulation, oral and written language. Teaching to speak well-voca rigans, voice training. Language semantics, language syntactic and the pragmatic aspect. Creative thought and its oral and written expression. Practice - cultivating the skills of speech process, voice training. Language semantics, language syntactic and the pragmatic aspect. Creative thought and its oral and written expression. Practice - cultivating the skills of speech process. Technician and Contemporary Society  Why to take off a hat 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 PC, it must be true - it's on the Internet and in newspapers, what are the sights for, interest in public affairs - a hangover from the past?  16PDP Principles of Vehicle Design ZK 2  Design of transportation vehicle according to its usage and function. Marketing and user demands. Vehicle dynamics. Propulsion systems. Design process, functional design and 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	15Y2PU	Publications and Their Creation	KZ	2
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,		Master Project 3	Z	1
	16XN3			

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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 - so ys of measuring, prevention, elimination. Exhausts - creation, measurement, reduction, non-regular fuels and drives. Ergonomy - sitting,		
onysical values, wa	reach. Condition - heating, ventilation, air-conditioning, filtration, tiredom.	stariding, contro	oi, operationa
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. N		1
	e and passive safety parts. Ergonomics, HMI, view out of the vehicle, operational extent, view behind the car. Conditioning tools, signature of the vehicle		•
	of the car body. Design and artistic design principles. Practical training.	g	,
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 a		
	(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	skills of work wit	h professiona
and free	eware tools for creation and processing of 2D, 3D and interactive graphics, and basics of programming language VRML and graphic lil	oraries (OpenGl	_).
16Y2ST	Special Technologies in Transport and Telecommunications	KZ	2
Micro, nano and	special technologies, electric arc and its applications, plasma technologies, dipping, beam technologies, electron beams technology in	n roduction and	mending of
	vehicles, laser and laser technologies, soldering, gluing, ultrasound, diffusion, friction and explosion technologies, micro stoves,	gas.	
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		
ehicles, descriptio	n and construction features, delivered mass calculation, economy of operation. Technics and technology of underground constructions	. Terrestrial vehic	cles operation
	management methodology (ultrasound, laser, GPS, total stations).		
17MGD	Management of Transport Systems	Z,ZK	3
	Functions, processes and systems of management in transport, organisational structures, strategy, social responsibility, soft sk		
17TZE	Technology of Railway Transport	ZK	2
	assessment, model operational situation with a system running time between IPT-nodes, calculation of traction energy savings compared to a section assessment, model operations of the section assessment and the section assessment assessment as a section as a sect		
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 freight train
472/14	paths, guidelines for centralised operational traffic control and management.		
17XN1	Master Project 1	Z	2
17XN2	Master Project 2	Z	2
17XN3	Master Project 3	Z	1
17XN4	Master Project 4	Z	8
17XNDP	Master Thesis	KZ	18
17Y2AM	Application of Marketing Tools in Transportation	KZ	2
Application of r 17Y2FM UMT history and d	narketing principles in transport issues, marketing tools suitable for transport, case studies of the use of marketing in the sphere of purple of purple of the use of marketing in the sphere of purple of the use of marketing in the sphere of purple of the use of marketing in the sphere of purple of the use of marketing in the sphere of purple of the use of marketing in the sphere of purple of the use of marketing in the sphere of purple of the use of marketing in the sphere of purple of the use of marketing in the sphere of purple of the use of marketing in the sphere of purple of the use of marketing in the sphere of purple of the use of marketing in the sphere of purple of the use of marketing in the sphere of purple of the use of the use of marketing in the sphere of purple of the use of t	blic passenger KZ	transport.  2 eration. Other
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18XN2	Master Project 2	Z	2
18XN3	Master Project 3	Z	1
18XN4	Master Project 4	Z	8
18XNDP	Master Thesis	KZ	18
18Y2DC	Dynamics of Transport Routes and Vehicles	KZ	2
	alculations of more mass systems. Analysis of the forces acting between the vehicle and transport route. Creation of dynamic models of		_
-	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.		•
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 environm	ent and loading o	n materials
	behavior are the main discussed topics.		
18Y2MP	Finite Element Method And Its Application	KZ	2
Basic mathemat	ical formulation of the Finite Element Method. Direct Stiffness Method used in structural mechanics. Evaluation of stiffness matrices in	or the basic eleme	nts using
variational prin	ciples. Element formulation (bar and beam elements, CST, LST, quadrilateral, tetrahedral and brick elements). Natural coordinates, na	tural shape funct	ons and
	isoparametric representation. Numerical integration. Introduction to dynamics. FEM programming.		1
18Y2SD	Reliability and Diagnostics, Experimental Methods	KZ	2
	sed on theoretical background and practical experience in the field of reliability of constructions, implementation of diagnostic procedure		
defects and determ	nination of residual life of structures. For this purpose, non-destructive methods of experimental mechanics (e. g. strain-gauge measure	ment, photoelasti	cimetry) and
	optical methods, including electron microscopy, will be used.		_
18Y2UB	Accident Biomechanics and Safety	KZ	2
	lethods of Medical Diagnostics - RTG, CT, MRI, US. Dynamics of traumatic events. Factors influencing the severity of an accident and t		
Injuries in road t	raffic. Pedestrian injuries. Injury in railway and air traffic accidents. Analysis of biomechanical events in accidents and their computation	nal modeling. Pri	nciples of
40) (0) (0	treatment and rehabilitation. Protective elements and safety measures in transport.	1/7	
18Y2VC	Computational Mechanics in Transportation	KZ	2
	work and variational principles in FEM. Bar shaped, planar and three - dimensional structures in FEM. FEM in statics and in dynamics		
· · · · · · · · · · · · · · · · · · ·	elastoplastic and viscoelastic material. FEM in problems of biomechanics. Numerical analysis of structural parts with programme ANS		
20DTEL	Road's Traffic Telematics	ZK	4
	management in cities and on highways, information and navigation systems, electronic fee collection, safe and intelligent vehicle and		
20XN1	Master Project 1	Z	2
20XN2	Master Project 2	Z	2
20XN3	Master Project 3	Z	1
20XN4	Master Project 4	Z	8
20XNDP	Master Thesis	KZ	18
20Y2PR	Prediction of time series	KZ	2
Introduction to time	series prediction, meaning of prediction, basics of quantitative prediction. Methods for predictive quality evaluation, descriptive statistic	s, MAE, MAPE, F	MSE, naive
prediction, predic	tion for general formula of loss function. Calculation and programming environment R. Regression models, basics of linear regression	, simple regression	n. Multiple
	regression, statistical tests of linear dependence, selection of input variables.		
20/275			
20Y2TE	Technology of Electronic Systems	KZ	2
	jies for an effective operation of electronically controlled systems. Maintaining, meassuring, optimization of safety and reliability of com		l .
Principle technolog	jies for an effective operation of electronically controlled systems. Maintaining, meassuring, optimization of safety and reliability of comtechnologies, printed circuits, assembly operations, interconnection and repairs technologiesusers and operators.	plex systems. Se	miconducto
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21Y2TL	Development Trends of Aircraft Construction	KZ	2
·	Historical and nowadays trends. Future scenarios. Space industry. Economy.		
21Y2VA	Selected Chapters of Aerodynamics	KZ	2
	of real gases, atmosphere, aeronautical applications of external and internal aerodynamics, compressible internal flow, inlet nozzle		•
external flow, super	critical wings and profiles, vertical and oblique shock wave, energy losses, aeronautical aerodynamic profiles of wings, propellers	, blades gratings, lift	, drag, polar,
00414145	viscosity, laminar and turbulent flow, boundary layer.	1/7	
22AMMD	Measuring Methods Applied to Transportation	KZ	4
	nd technical processing of traffic route with geodetic total station, GPS and photogrammetry, 3D scanning. Transport corridor set ical processing of several vehicle dynamic characteristics using high-speed cameras and accelerometers. It is a week course and		
Dottodion and toom	and September - usually in examination period.	ino tormo aro acaan	iy oot iii ouric
22SKM	Vehicle Kinematic Modelling and Simulation	KZ	2
-	sibilities of simulation tools with regards to vehicle movement analysis and vehicle crash analysis. Kinematic modelling of vehicle	/ vehicle train mover	ment. View
	conditions. Proposed road space passage.		
22XN1	Master Project 1	Z	2
22XN2	Master Project 2	Z	2
22XN3	Master Project 3	Z	1
22XN4	Master Project 4	Z	8
22XNDP	Master Thesis	KZ	18
22Y2PS	Traffic Accidents Computer Simulation and Analysis	KZ	2
Vehicle dynamics s	imulation, multi body systems and vehicle active safety systems, vehicle slipping, external influence on virtual model, crash tests	evaluation, single-tr	ack vehicle,
	vehicle passangers, pedestrian, traffic accident simulation and analysis.		
23XN1	Master Project 1	Z	2
23XN2	Master Project 2	Z	2
23XN3	Master Project 3	Z	1
23XN4	Master Project 4	Z	8
23XNDP	Master Thesis	KZ	18
23Y2BP	Security Class	KZ	2
The most prevaler	nt topics include data management, data and text mining applications, terrorism informatics, deception and intent detection, terro		al network
	analysis, crime analysis, cyber-infrastructure protection, transportation infrastructure security, and information assurance, amountained analysis, crime analysis, cyber-infrastructure protection, transportation infrastructure security, and information assurance, amountained analysis, crime analysis, cyber-infrastructure protection, transportation infrastructure security, and information assurance, amountained analysis, cyber-infrastructure protection, transportation infrastructure security, and information assurance, amountained analysis, cyber-infrastructure protection, transportation infrastructure security, and information assurance, amountained analysis, cyber-infrastructure protection, and cyber-infrastructure security and cyber-infrastructure security.	<del></del>	
23Y2FB	Physics for Security Branches	KZ	2
Grounds of phys	ics of substances and phenomena at extreme conditions. Grounds of rheology. Physics of Earth's interior. Geophysics. Physics of	of atmosphere. Applic	cations in
00)/0)/D	dengineering branches directed to safety.	1/7	
23Y2VR	Cope with Risks in Engineering Branches pranches pranches directed to risks, procedures used in risk engineering, ensuring the secured systems, ensuring the safe systems, ensuring the secured systems.	KZ	2
		KZ	2
23Y2VZ	Leadership and Human Resource Development tudy of human resources, human resources management, corporate goals, strategies, cultural and ethical aspects. Team management		_
	strategy and planning in human resources, ethics and corporate culture, cross-cultural differences. The labor code. Introduction in		on in teams,
23Y2ZM	Intelligence Means and Methods	KZ	2
	ent of intelligence services and their role in the modern world. How intelligence services handle with information. Methods and proce		_
	of intelligence services. Internal and external intelligence, military intelligence. The means and methods of state security services	•	-
	services within NATO, EU. The organization of the intelligence services.		

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