Study plan

Name of study plan: PL nav.prez.21/22 (pro obor PL)-skok do 2.r.

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: 99

The role of the block: Z

Code of the group: 1.S.NPPL 21/22

Name of the group: 1.sem.nav.prez.PL v 21/22 (obor PL)

Air traffic accidents prevention. Exceptional aviation event report. Analysis of particular accidents in air traffic.

Requirement credits in the group: In this group you have to gain 28 credits

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

Credits in the group: 28 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
21BLED	Aviation Safety	Z,ZK	4	2P+2C+14B	Z	Z
21CNSY	CNS Systems Stanislav Pleninger	Z,ZK	4	3P+1C+16B	Z	Z
21LKS	Aircraft Structures	Z,ZK	5	3P+2C	Z	Z
21PLDO	Air Carrier Operation	Z,ZK	5	3P+1C+14B	Z	Z
21POHL	Aircraft Propulsion	Z,ZK	6	3P+2C	Z	Z
22SLN	Air Traffic Accident Investigation	KZ	2	2P+0C+12B	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.NPPL 21/22 Name=1 sem.nav.prez.PL v 21/22 (obor.PL)

21BLED	Aviation Safety	Z,ZK	4
Reliability and sys	tem lifecycle. Basics of reliability theory. Reliability mathematical tools. Reliability analysis. Maintenance system. Safety and quality	y theory. Basic conc	epts of safety.
Managing of safe	y. Safety management. Safety management strategies. Hazard, risk. Risk management.		
21CNSY	CNS Systems	Z,ZK	4
Subject provides f	ull technical informations about CNS (communication, navigation, surveilance) systems used in aviation. Systems are presented in	perspective of future	e developmen
21LKS	Aircraft Structures	Z,ZK	5
•	opment of aeronautics. Classification of aircraft. Fundamental parts and systems. Safety, reliability and airworthiness. Limit states of		and strength
certification. Aviat	ion regulations. Load factor. Manoeuvring loads. Manoeuvring envelope of load factor. Gust load. Gust load factor and envelope of	gust load factor.	
21PLDO	Air Carrier Operation	Z,ZK	5
Mission and impo	rtance of air transport. Legislation. Airlines - structure, strategy. Performances in air transport. Cost structure. Fuel management. C	Cargo. Aircraft mainte	enance
(organization) and	l economics of aircraft operation. Ground handling and other services. Safety / Security / Quality and Compliance monitoring. Reve	enue management.	Air transport
and environment.			
	Aircraft Propulsion	Z,ZK	6
21POHL		, ,	-
21POHL Theoretical backg	Aircraft Propulsion	and criteria. Energy	transformation
21POHL Theoretical backg within aircraft pro	Aircraft Propulsion round. Earth atmosphere. Classification of aircraft engines, characteristics, domains of use, comparative parameters, characteristics	and criteria. Energy	transformatio
21POHL Theoretical backg within aircraft pro	Aircraft Propulsion round. Earth atmosphere. Classification of aircraft engines, characteristics, domains of use, comparative parameters, characteristics outsion systems, thermal cycles analysis, working substances, environmental constraints, efficiencies. Reciprocating and turbine e	and criteria. Energy	transformatio

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.NPPL 14/15

Name of the group: 2.sem.nav.prez.PL (od) 14/15 (obor PL)

Requirement credits in the group: In this group you have to gain 24 credits

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

Credits in the group: 24 Note on the group:

TOLO OIT LITO	<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
16PDP	Principles of Vehicle Design Jaroslav Machan, David Lehet Jaroslav Machan (Gar.)	ZK	2	2P+0C+8B	L	Z
21KST	Space Technology Jakub Hospodka, Jakub Trýb Jakub Hospodka (Gar.)	ZK	3	2P+0C+10B	L	Z
21NSR	Navigation and Flight Control Systems Jakub Hospodka, Milan Kameník, Ladislav Capoušek Jakub Hospodka	Z,ZK	5	3P+2C+14B	Z	Z
21SPOL	Aircraft Technology Reliability Old ich Štumbauer, Natalia Guskova, Kate ina Grötschelová Andrej Lališ (Gar.)	Z,ZK	4	2P+1C+12B	L	Z
21AITM	Air Traffic Management Terézia Pilmannová	KZ	4	3P+2C+14B	L	Z
23SCT	Airport Security	KZ	4	2P+1C+12B	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

Characteristics of the courses of this group of Study Plan: Code=2.S.NPPL 14/15 Name=2.sem.nav.prez.PL (od) 14/15 (obor PL)

16PDP	Principles of Vehicle Design	ZK	2
	ortation vehicle according to its usage and function. Marketing and user demands. Vehicle dynamics. Propulsion systems. Design Evaluation of variant concepts. Design phases. Realiability, technological aspects etc.	process, functional	design and
21KST	Space Technology	ZK	3
	basic characteristics. Fundamentals of astrophysics. Kepler´s laws. Solar system. Earth's and its atmosphere and outer space. Sp nd their structure and operational characteristics. Space crafts and satellites, space flight. Orbital mechanics. Application of space	•	
and communication	ion. Space exploration and piloted space flights and missions.	0 0	· ·
21NSR	Navigation and Flight Control Systems	Z,ZK	5
Navigation. Radio	onavigation. Satellite navigation. Flight management system. Autopilot. FMC. Practical execution of flight.	<u>'</u>	'
21SPOL	Aircraft Technology Reliability	Z,ZK	4
	Aircraft Technology Reliability h tuition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production ar	,	
Subject deals with	,	nd working of aerosp	ace engineering
Subject deals with General legalities	h tuition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production ar	nd working of aerosp	ace engineering
Subject deals with General legalities	h tuition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production ar s are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials an	nd working of aerosp	ace engineerin
Subject deals with General legalities security in The Cz 21AITM Current ATM systo	h tuition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production ar s are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials an zech Police Aviation Department.	nd working of aerosp id they are practical KZ ata exchange with n	ace engineering illustration of its 4 eighboring ATM
Subject deals with General legalities security in The Cz 21AITM Current ATM systo	h tuition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production are are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials an zech Police Aviation Department. Air Traffic Management tem and its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). De	nd working of aerosp id they are practical KZ ata exchange with n	ace engineering illustration of its 4 leighboring ATM
Subject deals with General legalities security in The Cz 21AITM Current ATM syste systems. Monitoria 23SCT	h tuition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production are are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials an zech Police Aviation Department. Air Traffic Management tem and its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Doing systems and technical supervision. ATM simulation. ATM conceptions and strategies for next years. EUROCONTROL - CFMU. F	nd working of aerosp id they are practical KZ ata exchange with n FAB. ATS's - AOC's o	ace engineering illustration of it: 4 eighboring ATM lata application 4
Subject deals with General legalities security in The Cz 21AITM Current ATM systems. Monitoring 23SCT Division of airport of airport security,	h tuition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production are are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials an zech Police Aviation Department. Air Traffic Management tem and its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Daing systems and technical supervision. ATM simulation. ATM conceptions and strategies for next years. EUROCONTROL - CFMU. F Airport Security	M working of aerosp Id they are practical KZ Id ata exchange with note in the interest of the	ace engineering illustration of its 4 eighboring ATM data applications 4 ency plans, mod
Subject deals with General legalities security in The Cz 21AITM Current ATM systems. Monitoring 23SCT Division of airport of airport security,	h tuition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production are are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and zech Police Aviation Department. Air Traffic Management tem and its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Dating systems and technical supervision. ATM simulation. ATM conceptions and strategies for next years. EUROCONTROL - CFMU. Find terms of security tin terms of security, design, standards and conventions, forms of risk in general, the analysis and management of risk in the grout, identification and security systems, radar systems and their role in security operations, scanning systems, X-rays and microwave	M working of aerosp Id they are practical KZ Id ata exchange with note in the interest of the	ace engineering illustration of its 4 eighboring ATM lata applications 4 ency plans, mod

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

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

Requirement credits in the group: In this group you have to gain 25 credits

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

Credits in the group: 25

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
11STS	Stochastic Systems Evženie Uglickich, Šárka Vorá ová, Natálie Blahitka, Michal Matowicki, Pavla Pecherková Pavla Pecherková Šárka Vorá ová (Gar.)	Z,ZK	4	2P+2C+14B	Z	Z
21ERGP	Ergonomics in Aviation Vladimír Socha	ZK	4	2P+0C	Z	Z

21PSAP	Aircraft and Spacecraft Instrumentation	Z,ZK	4	2P+2C+14B	Z	Z
21ULET		Z,ZK	6	3P+1C+16B	Z	Z
21LEN1	Aviation English 1 Terézia Pilmannová	Z	2	0P+2C+10B	Z	Z
21PRDP	Software means for thesis elaboration Vladimír Socha	Z	3	1P+1C	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.NPPL 19/20 Name=3.sem.nav.prez.PL (od) 19/20 (obor PL)

11STS	Stochastic Systems	Z,ZK	4
	h the problems of mathematical modelling of dynamical systems, estimation od these models and their utilization for prediction. In tasks. Mathematical theory roots from probability and mathematical statistics and they use the methods of the Bayesian prob		
21ERGP	Ergonomics in Aviation	ZK	4
	rgonomics. Visual system of a human. Aural system of a human. Information processing system of a human. Environmental inflinents and design in line with ergonomics. Design of a flight deck in line with ergonomics.	uences on human	performance.
21PSAP	Aircraft and Spacecraft Instrumentation	Z,ZK	4
	a theory and description of basic functions, structures and principles of aircraft and spacecraft instrumentation working in a low		
	sible to get knowledge about instrument boards, propulsion parameters measurements, aerometrical systems, and fuselage health Ind systems for navigation are also covered.	monitoring systen	ns. Furthermore,
		monitoring system	ns. Furthermore,
gyroscopic systems a			ns. Furthermore,
gyroscopic systems a 21ULET 21LEN1 Aircraft description. A	and systems for navigation are also covered.	Z,ZK Z	6 2
gyroscopic systems a 21ULET 21LEN1 Aircraft description. A	Aviation English 1 Aviation English 1 Aviation Business and marketing. Airports and handling services. Maintenance. Air traffic services. Aviation history. Accident investing the services and marketing.	Z,ZK Z	6 2

Presentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement. Optional courses for certificates

Code of the group: 4.S.NPPL 17/18

Language - English 3

Name of the group: 4.sem.nav.prez. PL (od) 17/18 (obor PL)

Requirement credits in the group: In this group you have to gain 4 credits

Requirement courses in the group: In this group you have to complete 2 courses

Credits in the group: 4 Note on the group:

15JBA3

FCE, CAE.

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
21LCA2	Aviation English 2 Slobodan Stoji	Z,ZK	2	0P+2C+10B	L	Z
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.NPPL 17/18 Name=4.sem.nav.prez. PL (od) 17/18 (obor PL)

21LCA2	Aviation English 2	Z,ZK	2					
15JBA4	Language - English 4	ZK	2					
Presentation Skills - ex	Presentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement. Optional courses for certificates							
FCE, CAE.								

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	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	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

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.

Note on the g	iioup.					
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 Zuzana arská, Dagmar Ko árková, Iva Šturmová, Kristýna Neubergová, Martin Jacura, Jan Kruntorád, Ond ej Trešl, David Vodák, Tomáš Javo ík,	Z	2	0P+2C+4B	Z	ZP
14XN1	Master Project 1	Z	2	0P+2C+4B	Z	ZP
15XN1	Master Project 1	Z	2	0P+2C+4B	Z	ZP
16XN1	Master Project 1 P emysl Toman	Z	2	0P+2C+4B	Z	ZP
17XN1	Master Project 1 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 Ji í R ži ka	Z	2	0P+2C+4B	Z	ZP
21XN1	Master Project 1 Jakub Hospodka, Natalia Guskova, Andrej Lališ, Slobodan Stoji , Vladimír Socha, Peter Vittek, Jakub Steiner, Terézia Pilmannová, Jakub Kraus,	Z	2	0P+2C+4B	Z	ZP
22XN1	Master Project 1 Michal Frydrýn, Karel Kocián, Luboš Nouzovský, Zden k Svatý, 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 Zuzana arská, Dagmar Ko árková, Kristýna Neubergová, Martin Jacura, Jan Kruntorád, Ond ej Trešl, David Vodák, Tomáš Javo ík, Pavel Purkart,	Z	2	0P+2C+8B	L	ZP

14XN2	Master Project 2 Vít Fábera, Tomáš Brandejský, Mária Jánešová, Jan Zelenka	Z	2	0P+2C+8B	L	ZP
15XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
16XN2	Master Project 2 Pemysl Toman, Josef Mik	Z	2	0P+2C+8B	L	ZP
17XN2	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	L	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 Jakub Hospodka, Natalia Guskova, Kate ina Grötschelová, Andrej Lališ, Slobodan Stoji , Peter Vittek, Jakub Steiner, Terézia Pilmannová, Jakub Kraus,	Z	2	0P+2C+8B	L	ZP
22XN2	Master Project 2 Michal Frydrýn, Karel Kocián, Luboš Nouzovský, Zden k Svatý, 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 Zuzana arská, Dagmar Ko árková, Martin Jacura, Jan Kruntorád, Ond ej Trešl, David Vodák, Tomáš Javo ík, Pavel Purkart, Lukáš Týfa,	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 Daniel Kytý	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 Michal Frydrýn, Karel Kocián, Luboš Nouzovský, Zden k Svatý, Tomáš Mi unek	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 Zuzana arská, Dagmar Ko árková, Kristýna Neubergová, Martin Jacura, Jan Kruntorád, Ond ej Trešl, David Vodák, Tomáš Javo ík, Pavel Purkart,	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, Karel Kocián, Luboš Nouzovský, Zden k Svatý	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, [BT]) od 14/15

11XN1	Master Project 1	Z	2
12XN1	Master Project 1	Z	2
14XN1	Master Project 1	Z	2
15XN1	Master Project 1	Z	2
16XN1	Master Project 1	Z	2
17XN1	Master Project 1	Z	2
18XN1	Master Project 1	Z	2
20XN1	Master Project 1	Z	2
21XN1	Master Project 1	Z	2

22XN1	Master Project 1	Z	2
23XN1	Master Project 1	Z	2
11XN2	Master Project 2	Z	2
12XN2	Master Project 2	Z	2
14XN2	Master Project 2	Z	2
15XN2	Master Project 2	Z	2
16XN2	Master Project 2	Z	2
17XN2	Master Project 2	Z	2
18XN2	Master Project 2	Z	2
20XN2	Master Project 2	Z	2
21XN2	Master Project 2	Z	2
22XN2	Master Project 2	Z	2
23XN2	Master Project 2	Z	2
11XN3	Master Project 3	Z	1
12XN3	Master Project 3	Z	1
14XN3	Master Project 3	Z	1
15XN3	Master Project 3	Z	1
16XN3	Master Project 3	Z	1
17XN3	Master Project 3	Z	1
18XN3	Master Project 3	Z	1
20XN3	Master Project 3	Z	1
21XN3	Master Project 3	Z	1
22XN3	Master Project 3	Z	1
23XN3	Master Project 3	Z	1
11XN4	Master Project 4	Z	8
12XN4	Master Project 4	Z	8
14XN4	Master Project 4	Z	8
15XN4	Master Project 4	Z	8
16XN4	Master Project 4	Z	8
17XN4	Master Project 4	Z	8
18XN4	Master Project 4	Z	8
20XN4	Master Project 4	Z	8
21XN4	Master Project 4	Z	8
22XN4	Master Project 4	Z	8
23XN4	Master Project 4	Z	8

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 8

The role of the block: PV

Code of the group: Y2-NPPL 21/22

Name of the group: PVP nav.prez. obor PL 21/22

Requirement credits in the group: In this group you have to gain 8 credits

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

Credits in the group: 8 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
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
21Y2CR	CRM	KZ	2	2P+0C	L	PV
12Y2DU	Transport in the Context of Sustainability Kristýna Neubergová	KZ	2	2P+0C	L	PV

15Y2DN	Transportation Psychology in German Speaking Countries	KZ	2	2P+0C	L	PV
18Y2DC	Dynamics of Transport Routes and Vehicles	KZ	2	2P+0C	Z	PV
18Y2EM	Electron microscopy Nela Kr má ová	KZ	2	2P+0C	L	PV
16Y2EE	Emissions and Ergonomics of Vehicles	KZ	2	2P+0C	L	PV
17Y2FM	Financing in Urban Mass Transportation Václav Baroch	KZ	2	2P+0C	Z	PV
21Y2FM	Aviation Company Financial Management Radoslav Zozu ák Radoslav Zozu ák	KZ	2	2P+0C+8B	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+8B	L	PV
11Y2LG	Logics of Engineer's Judgement	KZ	2	2P+0C	L	PV
23Y2MA	Risk Analysis and Management	KZ	2	2P+0C	L	PV
21Y2MQ	Quality Management Luboš Socha	KZ	2	2P+0C+8B	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+8B	Z	PV
12Y2MH	Measurement and Modeling of Traffic Noise	KZ	2	2P+0C	L	PV
12Y2MI	Urban Engineering	KZ	2	2P+0C	L	PV
18Y2MP	Finite Element Method And Its Application 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	KZ	2	2P+0C	L	PV
17Y2MO	International Organisations in Transportation	KZ	2	2P+0C	L	PV
17Y2MS	Microsimulation of Railway Operation	KZ	2	2P+0C	Z	PV
17Y2MD	Modelling and optimization on transport networks	KZ	2	2P+0C	Z	PV
21Y2MS	Aerospace Engineering Simulation and Modelling	KZ	2	2P+0C	Z	PV
21Y2MC	CNS Systems Modelling Stanislav Pleninger Stanislav Pleninger	KZ	2	2P+0C+8B	Z	PV
17Y2MT	Modern History for Engineering Students Tomáš Horák, Petra Skolilová	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
18Y2OB	Optical Contactless Strain Measurements Petr Zlámal	KZ	2	2P+0C	L	PV
16Y2PG	Computer Graphics and Virtual Reality Stanislav Novotný, Petr Bouchner	KZ	2	2P+0C	Z	PV
22Y2PS	Traffic Accidents Computer Simulation and Analysis	KZ	2	2P+0C	L	PV
15Y2PT	Food in Transportation Eva Rezlerová, Petr Musil	KZ	2	2P+0C	L	PV
23Y2PD	Practical vehicle dynamics	KZ	2	2P+0C	L	PV

15Y2PD	Practical Spanish for Transportation	KZ	2	2P+0C	Z	PV
21Y2PP	Law and Operation in Air Transport Radoslav Zozu ák	KZ	2	2P+0C+8B	L	PV
20Y2PR	Prediction of time series	KZ	2	2P+0C	L	PV
12Y2PV	Public transport priority	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
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
21Y2S1	Diploma Thesis Seminar 1	KZ	2	2P+0C	L	PV
21Y2S2	Diploma Thesis Seminar 2	KZ	2	2P+0C	Z	PV
15Y2SP	Seminar on Political Philosophy	KZ	2	2P+0C	Z	PV
17Y2SJ	Network Timetabling on the Railway Vít Janoš Vít Janoš (Gar.)	KZ	2	2P+0C	L	PV
16Y2ST	Special Technologies in Transport and Telecommunications	KZ	2	2P+0C	L	PV
16Y2SV	Special technologies in vehicle manufacturing	KZ	2	2P+0C	L	PV
18Y2SD	Reliability and Diagnostics, Experimental Methods Daniel Kytý	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
23Y2TP	Creation of legal and technical regulations	KZ	2	2P+0C	L	PV
14Y2UI	Artificial Intelligence	KZ	2	2P+0C+8B	Z,L	PV
18Y2UB	Accident Biomechanics and Safety	KZ	2	2P+0C	L	PV
23Y2VZ	Leadership and Human Resource Development	KZ	2	2P+0C	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
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

Characteristics of the courses of this group of Study Plan: Code=Y2-NPPL 21/22 Name=PVP nav.prez. obor PL 21/22

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 pul	blic passenger tr	ansport.
12Y2BM	Safety on The Local Roads	KZ	2
Classification of road ac	cidents rates, social looses. Collision points, diagrams. Tools and methods for safer road transportation. Crossroads from the po	int of view of safe	ty. Psychological
right of way. Roundabou	ts. Pedestrian transport, cyclists. Traffic lights coordination. Transport control and regulation.		
23Y2BP	Security Class	KZ	2
The most prevalent topi	cs include data management, data and text mining applications, terrorism informatics, deception and intent detection, terroris	t and criminal so	cial network
analysis, crime analysis	, 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	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 mo	dels from 2D ske	etches. Import
and export of made par	ts and bodies. Making assemble and visualization.		
14Y2C2	CATIA II	KZ	2
Extension of basic cours	se. Modeling compound bodies. Possibility of enumeration, comunications with other systems. Surface x solid bodies. Kinema	tic mechanism. F	roject making
and project cooperation	. Outputs of projects.		
14Y2CS	Sensitivity of Systems	KZ	2
Design of systems with	defined reliability. The impact of changing parameters and subsystems within a system. System sensitivity computing, definition	on of sensitivity f	unctions and
matrices and their usab	ility in system design.		

21Y2CR	CRM	KZ	2
	nalysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the human factor.		ue Sleep &
	rocessing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership & Decision Making. Communication. Leadership & Decision Making. Communication. Leadership & Decision Making. Communication.		
12Y2DU	Transport in the Context of Sustainability	KZ	2
	le transport, historical context, development in our country and in the world. Sustainable development and sustainable transpor of sustainable transport. Biofuels. Electromobility. New trends in transport. Practical examples.	rt. Demand for trai	nsport. Induction
	<u> </u>	V7	2
15Y2DN	Transportation Psychology in German Speaking Countries r view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, ge	KZ	
	; traffic psychology in the internet etc.)	etting of arrying no	cence, criliaren
18Y2DC	Dynamics of Transport Routes and Vehicles	KZ	2
	ations of more mass systems. Analysis of the forces acting between the vehicle and transport route. Creation of dynamic model	l	
	h a finite number of degrees of freedom. Methods of stiffness constants and pliability constants. Fundamentals of vibration of br		· .
	ntal methods in dynamics.	J	í
18Y2EM	Electron microscopy	KZ	2
Basic principles of elec-	rron microscopy, construction, control and maintenance of SEM, sample preparation, signal detection, types of detectors and	data evaluation u	sing image
analysis, quantification	of results and automation of data processing, energy dispersive X-ray microanalysis and other analytical methods in electron	microscopy. Eval	uation of data
	tor, practical examples of ED microanalysis on samples.		
16Y2EE	Emissions and Ergonomics of Vehicles	KZ	2
-	ny of vehicles and the influence on man and nature. National and international law related to the hygiene. Noise and vibrations		
	measuring, prevention, elimination. Exhausts - creation, measurement, reduction, non-regular fuels and drives. Ergonomy - sitt	ting, standing, cor	ntrol, operational
	ng, ventilation, air-conditioning, filtration, tiredom.	147	
17Y2FM	Financing in Urban Mass Transportation	KZ	2
•	pment in Prague and other cities in the world. Building and operation of public tram, bus, and trolleybus networks. Undergrou	_	
	opment in small towns. Particularities of investment and operation financing of individual UMT types. Historic and present mod ssengers. Tourism & UMT. UMT typology & choice of optimum financing.	dels of Olvi i linan	cing. transport
21Y2FM		KZ	2
	Aviation Company Financial Management nance - financial statements, budget, forecast. Financial policy of the company. Financial resources - long-term financial reso	l l	
· ·	s, loans, leasing, capital. Financial and economic analysis of the company - structure and content.	urces, depreciation	ni, retained
23Y2FB	Physics for Security Branches	KZ	2
	ubstances and phenomena at extreme conditions. Grounds of rheology. Physics of Earth's interior. Geophysics. Physics of at	ı	
dengineering branches		тоорпого. 7 кррпо	audio iii
18Y2FZ	Physical foundation of materials' properties	KZ	2
	e defects influence on properties of materials, stiffness, plasticity, strength, fracture, fatigue, creep, corrosion, effects of enviro	ı	_
behavior are the main of			J
15Y2HS	Road Transport History	KZ	2
Roads and road traffic i	n the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of roa	ad transport deve	lopment during
1st part of 20th century	Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of	•	
1st part of 20th century History of road interced	Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of tions, bridges and traffic control, development of road signs.	road travelling in	modern period.
1st part of 20th century History of road interced 16Y2HP	Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of tions, bridges and traffic control, development of road signs. Vehicle Hygiene	road travelling in	modern period.
1st part of 20th century History of road interced 16Y2HP Emissions and ergonom	Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of tions, bridges and traffic control, development of road signs. Vehicle Hygiene ny of vehicles and the influence on man and nature. National and international law related to the hygiene. Noise and vibrations	road travelling in KZ s - sources, creati	modern period. 2 on, propagation,
1st part of 20th century History of road interced 16Y2HP Emissions and ergonon physical values, ways of	Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of tions, bridges and traffic control, development of road signs. Vehicle Hygiene ny of vehicles and the influence on man and nature. National and international law related to the hygiene. Noise and vibrations measuring, prevention, elimination. Exhausts - creation, measurement, reduction, non-regular fuels and drives. Ergonomy - sitt	road travelling in KZ s - sources, creati	modern period. 2 on, propagation,
1st part of 20th century History of road interced 16Y2HP Emissions and ergonon physical values, ways of reach. Condition - heati	Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of tions, bridges and traffic control, development of road signs. Vehicle Hygiene ny of vehicles and the influence on man and nature. National and international law related to the hygiene. Noise and vibrations measuring, prevention, elimination. Exhausts - creation, measurement, reduction, non-regular fuels and drives. Ergonomy - siting, ventilation, air-conditioning, filtration, tiredom.	KZ s - sources, creatiting, standing, cor	2 on, propagation, ntrol, operational
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1st part of 20th century History of road interced 16Y2HP Emissions and ergonon physical values, ways of reach. Condition - heati 14Y2IS The use of information	Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of tions, bridges and traffic control, development of road signs. Vehicle Hygiene ny of vehicles and the influence on man and nature. National and international law related to the hygiene. Noise and vibrations measuring, prevention, elimination. Exhausts - creation, measurement, reduction, non-regular fuels and drives. Ergonomy - siting, ventilation, air-conditioning, filtration, tiredom. Intelligent Systems in Postal Services systems in the postal services (ITIS, and POST, T + T, PS, KMP, DS), application of information technology in the processing	KZ s - sources, creatiting, standing, cor	2 on, propagation, ntrol, operational 2 g nodes in the
1st part of 20th century History of road interced 16Y2HP Emissions and ergonon physical values, ways of reach. Condition - heati 14Y2IS The use of information postal network, optimizi	Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of tions, bridges and traffic control, development of road signs. Vehicle Hygiene ny of vehicles and the influence on man and nature. National and international law related to the hygiene. Noise and vibrations measuring, prevention, elimination. Exhausts - creation, measurement, reduction, non-regular fuels and drives. Ergonomy - siting, ventilation, air-conditioning, filtration, tiredom. Intelligent Systems in Postal Services	KZ s - sources, creatiting, standing, cor	2 on, propagation, ntrol, operational 2 g nodes in the
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23Y2MA	Risk Analysis and Management	KZ	2
•	rms. Risk sources, definition of hazard, impacts and risks. Methods for identification, analysis, assessment and management practice. Methods, tools and techniques for risk engineering. System of systems risk. Application of strategic and system appr	•	~ ~
	, emergency and crisis planning. Human factor - its role.	oach for benefit o	i security and
21Y2MQ	Quality Management	KZ	2
=	Pioneers in the field of quality. International quality organisations and quality promotion in the Czech Republic. Quality mana		
- ·	Integrated management systems. Risk management in the context of the requirements of ISO standards. Sectoral quality mana ccellence models and corporate social responsibility. Quality audits.	agement systems.	Comprehensive
15Y2MS	Sociology for Managers	KZ	2
	o a corporation. Corporation and its organization. Corporation and its running - human role and communication. Corporation,		
	in free market economy. Corporate directorship, work groups, adaptation, strife, different roles and positions in corporation.		
21Y2MK	Marketing of Air Transport	KZ	2
	se "Marketing in air transport" is the management of activities and processes using available marketing tools and processes sales of goods and services in the aviation industry. In addition to the theoretical foundations of marketing, the lectures prese	-	
•	reation of marketing strategies and planning.	oyotomo or mar	noi, compounci
12Y2MH	Measurement and Modeling of Traffic Noise	KZ	2
	to noise from traffic. Noise from rail transport. Noise from road traffic. Measurement and calculation of noise from rail traffic.	Measurement and	I calculation of
	Modelling of traffic noise in the CADNA A. Urban Engineering	KZ	2
12Y2MI Teaching aming on utilit	Of Dari Engineering ies storage in area, coordination engineering activities in area, arrangement of public space, concepement of public spaces.	KZ	2
18Y2MP	Finite Element Method And Its Application	KZ	2
Basic mathematical forr	mulation of the Finite Element Method. Direct Stiffness Method used in structural mechanics. Evaluation of stiffness matrices	for the basic elem	ents using
	lement formulation (bar and beam elements, CST, LST, quadrilateral, tetrahedral and brick elements). Natural coordinates, na	atural shape functi	ons and
16Y2MK	tation. Numerical integration. Introduction to dynamics. FEM programming. Quality Methods for Vehicles	KZ	2
	ethods list, customer data acquisition and analysis of customer requirements, QFD, DFM, DFA, DFS. FMEA (Failure mode ef		-
(team) design.			
12Y2MD	Methods of Traffic Regulation and Prediction	KZ	2
	gnosis, traffic prognosis for large area (calculation of future traffic volumes, calculation of future traffic volumes between areas (analogical and syr	nthetic methods,
17Y2MO	bution to road network). Shock wave in traffic flow. Service levels and their traffic volumes. Acceleration noise. International Organisations in Transportation	KZ	2
_	n transport, UN, EEC UN, Intergovernmental organisations, EU Offices and Agencies, Conference of European Ministries of		_
	transport, Air-Rail, railways, roads, air, waterways, forwarding and postal services.		
17Y2MS	Microsimulation of Railway Operation	KZ	2
	acteristics of simulation tools, creation of a simulation model of railway infrastructure, verification of a specific operational cor ructure model and modification to the infrastructure to allow the implementation of the proposed operational concept. Stability	-	
•	rational concept to delays.	y tests and evalual	lions. Evaluation
17Y2MD	Modelling and optimization on transport networks	KZ	2
Coordination problems	on public transport networks, scheduling vehicles, design of control plans for light-controlled intersections including green wa	ive modelling, serv	vice systems,
-	problems in distribution systems - exact, heuristic and metaheuristic principles of solving problems.		_
21Y2MS	Aerospace Engineering Simulation and Modelling as a set of exemplary tasks and problems based on practical aviation issues. The university degree mathematic skills and so	KZ	2
-	as a set of exemplary tasks and problems based on practical aviation issues. The university degree mathematic skills and sc al figuring out. Both simple tasks, where students create own model themselves (e.g. in Matlab), and more complicated problems.		- 1
tools will be applied.			·
21Y2MC	CNS Systems Modelling	KZ	2
•	as a set of model tasks in the field of communication navigation and surveillance systems in aviation, addressed using mathe to to dir targets tracking, measurement-to-track association, track filtering and multisensor tracking.	ematical approach	es and software
17Y2MT	Modern History for Engineering Students	KZ	2
	the 19. century history. Geopolitical situation in Europe explained on the examples of Great Britain, Germany and Austrian E		
	nsatlantic transportation development. Imperial China: Late Qing dynasty. Selected chapters from the 20. century history: From	m Bellé Epoque to	Cold War.
Czechoslovak historical			
12Y2MZ	Modernization of Railway Lines and Stations AGC and AGTC Agreement. AGC and AGTC railway network. Principles of modernization (conceptual papers, definitions of bas	KZ KZ	2
	acteristics on modernized railway lines. Superstructure and substructure on upgraded lines. Designing of railway stations. Brid		
-	cts. Technical description of the tranzit corridors.		·
14Y2OP	Object Oriented Programming in Transport	KZ	2
	ation, inheritance, polymorphism, templates, retyping, stream, exceptions, repository, collections, virtual methods and classe	s. Problem cases	wil be chosen
15Y2OZ	ation system, discrete event simulation, celular automata simulation and virtual life area. Health Protection in Transportation and EU	KZ	2
	realth Frotestion in Transportation and Eo Apportation in CR in the past and present. Conditions before 1989 and after, current legislature, future prospects. Harmonisat		_
members. Fundamental	principles of health protection and support in selected EU countries.		
15Y2OF	Specialised French for Transportation and Telecommunications	KZ	2
	ublic transport, railway, air, road and ship transport) and telecommunications terminology. Special focus on independent spea		
18Y2OB In the course students v	Optical Contactless Strain Measurements will get theoretical knowledge and practical experience in optical strain measurement methods. Students will get experience v	KZ with use of laborat	2 orv cameras.
	cameras for acquisition of suitable image data and with digital image correlation algorithms for displacements measurement		-
16Y2PG	Computer Graphics and Virtual Reality	KZ	2
•	d processing of bitmap and vector 2D graphics, 3D virtual scenes and algorithms used for their computerized processing. Adop	_	with professional
	reation and processing of 2D, 3D and interactive graphics, and basics of programming language VRML and graphic libraries		2
22Y2PS Vehicle dvnamics simul	Traffic Accidents Computer Simulation and Analysis ation, multi body systems and vehicle active safety systems, vehicle slipping, external influence on virtual model, crash tests	KZ evaluation, single	2 -track vehicle.
=	audi, indii budu yayatenia anu verinde adive salety systems, verinde siipping, externa iliiudene dii virtual model, diasir tesis Abertian traffic accident simulation and analysis	a.aaaaan, single	

15Y2PT	Food in Transportation	KZ	2
The nutrition policy. Into	eraction transportation and foodstuffs. The health risks. Hygienic safeguard. The practical examples from the Czech Republic a	and from the worl	d. The issues of
	and other railroad equipment. Legislation.		
23Y2PD	Practical vehicle dynamics	KZ	2
	mics. Multibody vehicle modeling. Modeling with IPG CarMaker. Standard and development stage experiments with road vehic ssenger vehicles. Experiment evaluation.	cles. Realization of	of experimental
15Y2PD	Practical Spanish for Transportation	KZ	2
	unication skills, training of correct written expression of formal character, basic technical vocabulary, cultural specifics of the Specific of the Spec		
Terminology of transpo		g	
21Y2PP	Law and Operation in Air Transport	KZ	2
Development of aviatio	n law. International conventions on civil aviation. International organisations and including of the Czech Republic in these organisations	nisations. EU leg	islation and civil
	tate administration and state supervision in matters of civil aviation, in accordance with Act No. 49/1997 Col. Facilitation. Resp	onsibilities of air	carriers for
	nd cargo. The safe transport of dangerous goods.	147	
20Y2PR	Prediction of time series les prediction, meaning of prediction, basics of quantitative prediction. Methods for predictive quality evaluation, descriptive stat	KZ	2 DE DMSE paivo
	or general formula of loss function. Calculation and programming environment R. Regression models, basics of linear regression		
	ests of linear dependence, selection of input variables.	,	
12Y2PV	Public transport priority	KZ	2
Public transport as the	backbone of sustainable mobility. Public transport priority (PTP) in strategic documents. PTP in the Czech Republic and abroad	I. Types of PTP m	easures. Design
	tionship between Basics of public transport stops and stations design. PTP measures and evaluation of their operation. Econo	omic and environ	ental effects of
	eparing PTP measures.	1/7	
14Y2PI	Process Information Systems in Transportation d usage of transport information systems, e.g. EFC, ePurse and transport check-in systems for public transport with focus on	KZ	2
	Architecture). Inforantion systems implementation and operations description in the Czech Republic (technical and process)		
14Y2PJ	C++ Programming Language	KZ	2
-	asics of C++ programming language. Class, object, constructor, destructor, inheritance, abstract class, virtual methods, exception		
overloading, abstract d	ata type implementation in C++.		.
14Y2PH	CAD Interface Programming	KZ	2
	erface programming techniques with the help of LIST and VBA programming languages. Possibilities of proper objects (comm	ands), dialogues	interfaces, and
	CAD systems. Programming of cooperation with other applications (databases, spread-sheets).		
11Y2PM	Programming in MATLAB	KZ	2
Matlab.	of modelling and simulation, description of Matlab environment and its settings, optimization and program code debugging, description of Matlab environment and its settings, optimization and program code debugging, description of Matlab environment and its settings, optimization and program code debugging, description of Matlab environment and its settings, optimization and program code debugging, description of Matlab environment and its settings, optimization and program code debugging, description of Matlab environment and its settings, optimization and program code debugging, description of Matlab environment and its settings, optimization and program code debugging, description of Matlab environment and its settings, optimization and program code debugging, description of Matlab environment and its settings.	ata fitting and des	signing GUI in
21Y2PL	Operational Aspects of Aerodromes	KZ	2
	aerodromes. Location of aerodrome and orientation of runways. Requirements for apron. Capacity of airports runways and ter		
	units. Protection against unlawful interference. Local transport connection. Environmental protection.		
15Y2PU	Publications and Their Creation	KZ	2
	ootnotes and references. Exploration of facts. Quotations. Formal document layout. Working with information databases. Typog	graphic principles	. Typographic
	/LaTeX. Practical creation of simple scientific documents.		
12Y2RD	Realization of Transport Buildings	KZ	2
	es. Project Documentation Types. Building Code. Land Permission and Building Permission Process. Building Process. Project		
17Y2RZ	Control of Transport Processes sport system, decomposition, factors influencing control, quality diagnosis, methods of control, systems for decision making si	KZ	2
telematics.	sport system, decomposition, lactors initiationly control, quality diagnosis, methods of control, systems for decision making si	upport, risk of de	cision making,
21Y2S1	Diploma Thesis Seminar 1	KZ	2
Types of final theses (re	eview, applied research, basic research, work dealing with design proposals). Working with citation sources (citation database	s, citation styles)	Analysis of the
current state (writing st	andards). Definition of the limitations of the current state. Introduction to the methodology of writing final theses.		
21Y2S2	Diploma Thesis Seminar 2	KZ	2
	final theses. Definition of materials and methods, approach to obtaining results, presentation and discussion of results, formulating the control of the con		
 and presentation, basic working with LaTeX a 	statistics, validation of results and proposals. Achieving the objectives of the paper and evaluation of hypotheses tests. Formand Word template	and graphic des	sign of the paper
15Y2SP	Seminar on Political Philosophy	KZ	2
	hical texts, view of society, state and their system of government.	ΝZ	2
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 an		
circulation planning. Ru	iles of train-diagramm creating. Timetables for more service-levels on the line. Construction slot conflicts between passenger-	and freight transp	ort. Network line
	nes, timetables for lines under construction.		
16Y2ST	Special Technologies in Transport and Telecommunications	KZ	2
•	Il technologies, electric arc and its applications, plasma technologies, dipping, beam technologies, electron beams technology	in roduction and	mending of
	er technologies, soldering, gluing, ultrasound, diffusion, friction and explosion technologies, micro stoves, gas.	V7	
16Y2SV Micro, nano and specia	Special technologies in vehicle manufacturing technologies, electric arc and its applications, plasma technologies, dipping, beam technologies, electron beams technology	KZ in roduction and	2 mending of
•	er technologies, soldering, gluing, ultrasound, diffusion, friction and explosion technologies, micro stoves, gas.	in roduction and	menang or
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		
	ion of residual life of structures. For this purpose, non-destructive methods of experimental mechanics (e. g. strain-gauge meas	surement, photoe	asticimetry) and
-	ing electron microscopy, will be used.		
15Y2SR	Stylistics and Rhetorics	KZ	2
	with a conversion on a many of human communication Designation of the second of the se		أبي الجنيباهم
	written expression as a means of human communication. Basic information about speech, articulation, oral and written langua anguage semantics, language syntactic and the pragmatic aspect. Creative thought and its oral and written expression. Practic	-	-

-	Urban and Regional Rail Transport System	KZ	2
Factors influencing tr	ansport demand, modal-split, traffic flows distribution on public transit network. Line network optimization and configuration.	Timetable designing	and evaluation
accenting integrated	periodic timetable. Rolling stock circulation, staff and crew services optimization and their order to rosters. Framework legislatic	on, non-barrier effec	ts and preference
of public transport. M	arketing.		
15Y2TS	Technician and Contemporary Society	KZ	2
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 turr	n on a PC, it must be	true - it's on the
nternet and in news	papers, what are the sights for, interest in public affairs - a hangover from the past?		
20Y2TE	Technology of Electronic Systems	KZ	2
Principle technologie	s for an effective operation of electronically controlled systems. Maintaining, meassuring, optimization of safety and reliability	of complex systems	s. Semiconducto
echnologies, printed	circuits, assembly operations, interconnection and repairs technologiesusers and operators.		
14Y2TU	Telecommunications Systems and Multimedia	KZ	2
New trends in telecor	nmunications namely applied in transport solutions, identification and quantification of telecommunications networks and servi	ces performance ba	sed on redundar
rchitecture, provissi	oning of guaranteed service quality, two generations of the handover principles.		
I6Y2TT	Transportation and Building Technology and Equipment	KZ	2
ransportation and b	uilding technology and equipment.Transport of solid and mass material, soil and rock above all. Highway and underground o	onstructions. Transp	ort surface
ehicles, description	and construction features, delivered mass calculation, economy of operation. Technics and technology of underground constr	uctions. Terrestrial v	ehicles operation
nanagement method	lology (ultrasound, laser, GPS, total stations).		
3Y2TP	Creation of legal and technical regulations	KZ	2
reation of legislation	n, structure of the bills of law, legal process, compatibility with the EC law, the creation of technical standards and their public	cation, ÚNMZ (Czec	h Office for
tandards, metrology	and testing) in Czech Republic, organizations CEN, CENELEC and ETSI, the notification process.		
4Y2UI	Artificial Intelligence	KZ	2
listory of artificial inf	elligence, knowledge, its representation including frames, state space search, constraints, genetic algorithms, machine learn	ninģ.	
I8Y2UB	Accident Biomechanics and Safety	KZ	2
natomy of man. Me	thods of Medical Diagnostics - RTG, CT, MRI, US. Dynamics of traumatic events. Factors influencing the severity of an accide	nt and the extent of	a traffic acciden
njuries in road traffic	. Pedestrian injuries. Injury in railway and air traffic accidents. Analysis of biomechanical events in accidents and their compu	utational modeling. F	Principles of
reatment and rehabi	litation. Protective elements and safety measures in transport.		
	Leadership and Human Resource Development	KZ	2
23Y2VZ	Leadership and numan Resource Development		_
	Leadership and numan resource Development udy of human resources, human resources, human resources management, corporate goals, strategies, cultural and ethical aspects. Team mar	1	_
ntroduction to the st	· ·	1	_
ntroduction to the strategy and planning	udy of human resources, human resources management, corporate goals, strategies, cultural and ethical aspects. Team mar	1	_
ntroduction to the strategy and planning	udy of human resources, human resources management, corporate goals, strategies, cultural and ethical aspects. Team mar g in human resources, ethics and corporate culture, cross-cultural differences. The labor code. Introduction into protocols.	nagement, commun	ication in teams
ntroduction to the strategy and planning 8Y2VC Principle of virtual wo	udy of human resources, human resources management, corporate goals, strategies, cultural and ethical aspects. Team margin human resources, ethics and corporate culture, cross-cultural differences. The labor code. Introduction into protocols. Computational Mechanics in Transportation	nagement, commun	ication in teams
ntroduction to the strategy and planning 8Y2VC Principle of virtual worklastic, elastoplastic	udy of human resources, human resources management, corporate goals, strategies, cultural and ethical aspects. Team margin human resources, ethics and corporate culture, cross-cultural differences. The labor code. Introduction into protocols. Computational Mechanics in Transportation ork and variational principles in FEM. Bar shaped, planar and three - dimensional structures in FEM. FEM in statics and in dy	nagement, commun	ication in teams
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List of courses of this pass:

Code	Name of the course	Completion	Credits
11STS	Stochastic Systems	Z,ZK	4
The subject deals	s with the problems of mathematical modelling of dynamical systems, estimation od these models and their utilization for prediction.	The results are illus	strated on
practical tra	nsportation tasks. Mathematical theory roots from probability and mathematical statistics and they use the methods of the Bayesian	probabilistic appro	ach.
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
11Y2LG	Logics of Engineer's Judgement	KZ	2
Logical structure of	f engineer's judgement, its propositional and predicative logical base. Solutions of logical tasks through the methods of truthfulness	and semantic analy	sis charts
	Venn's diagram method. Logical basis for network design for the solution of technical tasks.		
11Y2PM	Programming in MATLAB	KZ	2
To explain the prin	ciple of modelling and simulation, description of Matlab environment and its settings, optimization and program code debugging, dat	ta fitting and design	ning GUI ir
	Matlab.		
12XN1	Master Project 1	Z	2
12XN2	Master Project 2	Z	2
12XN3	Master Project 3	Z	1
12XN4	Master Project 4	Z	8
12XNDP	Master Thesis	KZ	18

12Y2BM	Safety on The Local Roads d accidents rates, social looses. Collision points, diagrams. Tools and methods for safer road transportation. Crossroads from the point	KZ	2 evebological
Classification of foa	right of way. Roundabouts. Pedestrian transport, cyclists. Traffic lights coordination. Transport control and regulation.	oi view oi salety. F	Sychological
12Y2DU	Transport in the Context of Sustainability	KZ	2
Definitions of sustai	inable transport, historical context, development in our country and in the world. Sustainable development and sustainable transport. Diofuels. Electromobility. New trends in transport. Practical examples.	emand for transpo	rt. Induction
12Y2IS	Urban Networks	KZ	2
	d the position of UN as public and technical infrastructure / utillities, metodology of the UN master planning, of UN design, UN coordinates		ı
12Y2KE	operation (basic technical standards of UN, trenchless technologies for UN). Landscape Ecology	KZ	2
	gy. Landscape - definition, types, evolution. Landscape systems. Anthropogenic impacts on landscape. Methods using for evaluating and its potential applications in landscape ecology. Landscape planning.		ı
12Y2KS	Rail Transport in Settlements and Regions	KZ	2
	d development of railway infrastructure in Czech Republic. Arrangement of railway networks and junctions. Suburban railway service tion of metro systems. Network configuration and operation of tram systems. Special thematic lectures (rail transport in selected cou	_	ration and
12Y2MD	Methods of Traffic Regulation and Prediction	KZ	2
	prognosis, traffic prognosis for large area (calculation of future traffic volumes, calculation of future traffic volumes between areas (and modal split, traffic distribution to road network). Shock wave in traffic flow. Service levels and their traffic volumes. Acceleration r		tic methods
12Y2MH	Measurement and Modeling of Traffic Noise	KZ	2
	ction to noise from traffic. Noise from rail transport. Noise from road traffic. Measurement and calculation of noise from rail traffic. Me		I
12Y2MI	noise from road traffic. Modelling of traffic noise in the CADNA A.	KZ	2
	Urban Engineering aching aming on utilities storage in area, coordination engineering activities in area, arrangement of public space, concepement of p		2
12Y2MZ	Modernization of Railway Lines and Stations	KZ	2
	ng. AGC and AGTC Agreement. AGC and AGTC railway network. Principles of modernization (conceptual papers, definitions of basic c		
Track geometrical	characteristics on modernized railway lines. Superstructure and substructure on upgraded lines. Designing of railway stations. Bridge and realization of projects. Technical description of the tranzit corridors.	es and tunnels. De	velopment
12Y2PV	Public transport priority	KZ	2
•	the backbone of sustainable mobility. Public transport priority (PTP) in strategic documents. PTP in the Czech Republic and abroad. Ty Relationship between Basics of public transport stops and stations design. PTP measures and evaluation of their operation. Econom PTP. The process of preparing PTP measures.		_
12Y2RD	Realization of Transport Buildings	KZ	2
	Types. Project Documentation Types. Building Code. Land Permission and Building Permission Process. Building Process. Project Eco		_
14XN1	ic calming. Solution of road network organization. Urban road layouts. Psychological and physical obstacles (measures of traffic calm Traffic calming measures in crossroads. Pedestrian zones. Residential streets and zones. 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
14Y2C1	CATIA I	KZ	2
Fundaments of wo	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.		nes. Import
14Y2C2	CATIA II	KZ	2
Extension of basic	course. Modeling compound bodies. Possibility of enumeration, comunications with other systems. Surface x solid bodies. Kinematic and project cooperation. Outputs of projects.	: mechanism. Proji	ect making
14Y2CS	Sensitivity of Systems	KZ	2
Design of system	s with defined reliability. The impact of changing parameters and subsystems within a system. System sensitivity computing, definitio matrices and their usability in system design.	n of sensitivity fund	ctions and
14Y2IS	Intelligent Systems in Postal Services	KZ	2
	ation systems in the postal services (ITIS, and POST, T + T, PS, KMP, DS), application of information technology in the processing of mizing logistics processes in the post. The appreciation of the real implementation of the Czech post in operation both in lectures and in		
14Y2JM	desk. One-Chip Controllers	KZ	2
	rollers architecture, embedded peripherals (counters, timers, converters, ports) and their utilisation. Practical tasks are programmed v		I
14Y2KI	Capital Investment in Transportation and Telecommunications Financial market, investment desicion making - long term goals and investment strategies, long term financing	KZ	2
14Y2OP	Object Oriented Programming in Transport	KZ	2
Class, object, enc	apsulation, inheritance, polymorphism, templates, retyping, stream, exceptions, repository, collections, virtual methods and classes. I from microscopic simulation system, discrete event simulation, celular automata simulation and virtual life area.	Problem cases wil	be chosen
14Y2PH	CAD Interface Programming	KZ	2
	D interface programming techniques with the help of LIST and VBA programming languages. Possibilities of proper objects (command applications creation in CAD systems. Programming of cooperation with other applications (databases, spread-sheets).		l .
14Y2PI	Process Information Systems in Transportation	KZ	2
	etailed usage of transport information systems, e.g. EFC, ePurse and transport check-in systems for public transport with focus on a		I
	riented Architecture). Inforamtion systems implementation and operations description in the Czech Republic (technical and process) is		
14Y2PJ	C++ Programming Language	KZ	2
JUP philosophy an			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	d basics of C++ programming language. Class, object, constructor, destructor, inheritance, abstract class, virtual methods, exceptions, overloading, abstract data type implementation in C++.		and operato

	Telecommunications Systems and Multimedia	KZ	2
ew trends in teleco	ommunications namely applied in transport solutions, identification and quantification of telecommunications networks and services pe	rformance based o	n redundar
	architecture, provissioning of guaranteed service quality, two generations of the handover principles.		
14Y2UI	Artificial Intelligence	KZ	2
15J2A1	story of artificial intelligence, knowledge, its representation including frames, state space search, constraints, genetic algorithms, made and a state of the st	Z	2
	Language - English 1 resentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work	I	2
15JBA2	Language - English 2	Z	2
	resentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work	1	_
15JBA3	Language - English 3	Z	2
Presentation Skill	s - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Op	tional courses for o	certificates
	FCE, CAE.		
15JBA4	Language - English 4	ZK	2
Presentation Skills	s - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Op FCE, CAE.	itional courses for o	certificates
15XN1	Master Project 1	Z	2
15XN2	Master Project 2	Z	2
15XN2	Master Project 3	Z	1
15XN4	Master Project 4	Z	8
15XNDP	Master Project 4 Master Thesis	KZ	_
		KZ KZ	18 2
15Y2DN	Transportation Psychology in German Speaking Countries roader view of traffic problems with regard to the work with texts (Physics for drivers, abusing alcohol during driving, exhaustion, gett	1	-
nitoduction into bi	in traffic, traffic accident, traffic psychology in the internet etc.)	ing of anving licent	ce, criliaren
15Y2HS	Road Transport History	KZ	2
	affic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road	1	_
st part of 20th cer	ntury. Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of road	ad travelling in mod	dern period
	History of road intercections, bridges and traffic control, development of road signs.		
15Y2JH	Job Hunting in English	KZ	2
•	les a practical guide to applying for a job in English. The interview process is mapped out, with the course including skills practise for	-	-
	ng specifics for job-hunting in English. Students will also be introduced to the English vocabulary and phraseology necessary for a su		
15Y2MS	Sociology for Managers roach to a corporation. Corporation and its organization. Corporation and its running - human role and communication. Corporation, i	KZ	2
	luman's work position in free market economy. Corporate directorship, work groups, adaptation, strife, different roles and positions in		ai systeiii.
15Y2OF	Specialised French for Transportation and Telecommunications	KZ	2
	protation (public transport, railway, air, road and ship transport) and telecommunications terminology. Special focus on independent sp	1	-
15Y2OZ	Health Protection in Transportation and EU		2
		KZ	
Health protection	in transportation in CR in the past and present. Conditions before 1989 and after, current legislature, future prospects. Harmonisatio	1	1
	•	on of legislation with	other EU
15Y2PD	in transportation in CR in the past and present. Conditions before 1989 and after, current legislature, future prospects. Harmonisatio members. Fundamental principles of health protection and support in selected EU countries. Practical Spanish for Transportation	n of legislation with	other EU
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16Y2HP		KZ	2
missions and aras	Vehicle Hygiene	112	_
erinssions and ergo	onomy of vehicles and the influence on man and nature. National and international law related to the hygiene. Noise and vibrations - s	sources, creation,	propagation
hysical values, way	ys of measuring, prevention, elimination. Exhausts - creation, measurement, reduction, non-regular fuels and drives. Ergonomy - sitting	g, standing, contro	, operation
	reach. Condition - heating, ventilation, air-conditioning, filtration, tiredom.		
16Y2KV	Car Body Design	KZ	2
	ody, high-load car body, bus car body, and motorcycle as a construction set. Principles of design, production, testing and operation.	l	
	e and passive safety parts. Ergonomics, HMI, view out of the vehicle, operational extent, view behind the car. Conditioning tools, sign		
oristi dottori. Activ	of the car body. Design and artistic design principles. Practical training.	iding function. Ac	rodynamic
40)/01/4/		1/7	
16Y2MK	Quality Methods for Vehicles	KZ	2
uality managemei	nt methods list, customer data acquisition and analysis of customer requirements, QFD, DFM, DFA, DFS. FMEA (Failure mode effect	analysis). Elemer	its of para
	(team) design.		
16Y2PG	Computer Graphics and Virtual Reality	KZ	2
rinciples of creatio	n and processing of bitmap and vector 2D graphics, 3D virtual scenes and algorithms used for their computerized processing. Adopting	skills of work with	profession
and free	eware tools for creation and processing of 2D, 3D and interactive graphics, and basics of programming language VRML and graphic I	ibraries (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 roduction and r	nending o
	vehicles, laser and laser technologies, soldering, gluing, ultrasound, diffusion, friction and explosion technologies, micro stoves		· ·
16Y2SV	Special technologies in vehicle manufacturing	KZ	2
	special technologies, electric arc and its applications, plasma technologies, dipping, beam technologies, electron beams technology	1	1
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	vehicles, laser and laser technologies, soldering, gluing, ultrasound, diffusion, friction and explosion technologies, micro stoves		_
16Y2TT	Transportation and Building Technology and Equipment	KZ	2
•	ind building technology and equipment. Transport of solid and mass material, soil and rock above all. Highway and underground cons		
ehicles, description	n and construction features, delivered mass calculation, economy of operation. Technics and technology of underground constructions	s. Terrestrial vehic	es operat
	management methodology (ultrasound, laser, GPS, total stations).		
17XN1	Master Project 1	Z	2
17XN2	Master Project 2	Z	2
17XN3	Master Project 3	Z	1
	•	Z	<u> </u>
17XN4	Master Project 4		8
17XNDP	Master Thesis	KZ	18
17Y2AM	Application of Marketing Tools in Transportation	KZ	2
Application of n	narketing principles in transport issues, marketing tools suitable for transport, case studies of the use of marketing in the sphere of p	ublic passenger tr	ansport.
17Y2FM	Financing in Urban Mass Transportation	KZ	2
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18Y2EM	Electron microscopy	KZ	2
	of electron microscopy, construction, control and maintenance of SEM, sample preparation, signal detection, types of detectors and		
analysis, quantific	cation of results and automation of data processing, energy dispersive X-ray microanalysis and other analytical methods in electron n	nicroscopy. Evaluati	ion of data
18Y2FZ	obtained from ED detector, practical examples of ED microanalysis on samples.	V7	
	Physical foundation of materials' properties lattice defects influence on properties of materials, stiffness, plasticity, strength, fracture, fatigue, creep, corrosion, effects of environments of the properties of materials, stiffness, plasticity, strength, fracture, fatigue, creep, corrosion, effects of environments of the properties	KZ	2 n materials'
Atomistic models,	behavior are the main discussed topics.	nent and loading of	Tillateriais
18Y2MP	Finite Element Method And Its Application	KZ	2
	tical formulation of the Finite Element Method. Direct Stiffness Method used in structural mechanics. Evaluation of stiffness matrices is	1	
	ciples. Element formulation (bar and beam elements, CST, LST, quadrilateral, tetrahedral and brick elements). Natural coordinates, n		~ I
	isoparametric representation. Numerical integration. Introduction to dynamics. FEM programming.		
18Y2OB	Optical Contactless Strain Measurements	KZ	2
	dents will get theoretical knowledge and practical experience in optical strain measurement methods. Students will get experience wit		
	speed cameras for acquisition of suitable image data and with digital image correlation algorithms for displacements measurements		
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 procedul		
defects and determ	nination of residual life of structures. For this purpose, non-destructive methods of experimental mechanics (e. g. strain-gauge measure optical methods, including electron microscopy, will be used.	ement, photoeiastic	imetry) and
18Y2UB	Accident Biomechanics and Safety	KZ	2
	Methods of Medical Diagnostics - RTG, CT, MRI, US. Dynamics of traumatic events. Factors influencing the severity of an accident and		
•	traffic. Pedestrian injuries. Injury in railway and air traffic accidents. Analysis of biomechanical events in accidents and their computati		
,	treatment and rehabilitation. Protective elements and safety measures in transport.	· ·	
18Y2VC	Computational Mechanics in Transportation	KZ	2
Principle of virtual	work and variational principles in FEM. Bar shaped, planar and three - dimensional structures in FEM. FEM in statics and in dynamic	s of transportation	al systems.
	elastoplastic and viscoelastic material. FEM in problems of biomechanics. Numerical analysis of structural parts with programme AN	ISYS on instances.	
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	e series prediction, meaning of prediction, basics of quantitative prediction. Methods for predictive quality evaluation, descriptive statistics	ics, MAE, MAPE, R	MSE, naive
prediction, predic	tion for general formula of loss function. Calculation and programming environment R. Regression models, basics of linear regression	n, simple regression	n. Multiple
	regression, statistical tests of linear dependence, selection of input variables.		
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20Y2TE	Technology of Electronic Systems	KZ	2
-	gies for an effective operation of electronically controlled systems. Maintaining, meassuring, optimization of safety and reliability of cor		
Principle technolog	gies for an effective operation of electronically controlled systems. Maintaining, meassuring, optimization of safety and reliability of contechnologies, printed circuits, assembly operations, interconnection and repairs technologiesusers and operators.	mplex systems. Ser	miconductor
Principle technolog	pies for an effective operation of electronically controlled systems. Maintaining, meassuring, optimization of safety and reliability of cor technologies, printed circuits, assembly operations, interconnection and repairs technologiesusers and operators. Air Traffic Management	mplex systems. Ser	niconductor 4
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21PRDP	Software means for thesis elaboration	Z	3
The subject syllable	us is oriented to solving associated problems with master's theses upon request from students, where individual classess will go ther	ough given issues	on specific
examples accord	ding to the needs and questions from students. The subject has flexible form owing to which it is possible to deepen students' knowed	dge of Matlab envi	ronment.
21PSAP	Aircraft and Spacecraft Instrumentation	Z,ZK	4
The course deals w	ith a theory and description of basic functions, structures and principles of aircraft and spacecraft instrumentation working in a low-fred	quency band. With	in the scope
of this course it is po	ssible to get knowledge about instrument boards, propulsion parameters measurements, aerometrical systems, and fuselage health mo	nitoring systems. F	urthermore,
	gyroscopic systems and systems for navigation are also covered.		
21SPOL	Aircraft Technology Reliability	Z,ZK	4
-	uition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and world		
General legalities a	are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and they	are practical illust	tration of its
	security in The Czech Police Aviation Department.		_
21ULET		Z,ZK	6
21XN1	Master Project 1	Z	2
21XN2	Master Project 2	Z	2
21XN3	Master Project 3	Z	1
21XN4	Master Project 4	Z	8
21XNDP	Master Thesis	KZ	18
21Y2BS	Unmanned aircraft systems 2	KZ	2
	amanned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights be		
	CRM	KZ	2
21Y2CR	ا M. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the huma		
	nformation Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership & Decision Making. Communication & Decision Making. Decision & Dec		
21Y2FM			
	Aviation Company Financial Management prate finance - financial statements, budget, forecast. Financial policy of the company. Financial resources - long-term financial resou	KZ	2 retained
Theories of corpo	earnings, shares, bonds, loans, leasing, capital. Financial and economic analysis of the company - structure and content.	ices, depreciation	, retained
21Y2LS		KZ	2
	Air Traffic Services		_
Airspace structure i	n Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, APP at USA and Czechoslovakia. ATS - Model of financing. Training Systém of Air Traffic Controllers. Future development of ATS		Story of ATS
21Y2MC		, KZ	2
	CNS Systems Modelling		
The course is desig	ned as a set of model tasks in the field of communication navigation and surveillance systems in aviation, addressed using mathema tools. A large part is devoted to air targets tracking, measurement-to-track association, track filtering and multisensor trackin	* *	na sonware
24.721.417		y. KZ	2
21Y2MK	Marketing of Air Transport		2
	course "Marketing in air transport" is the management of activities and processes using available marketing tools and processes for a of sales of goods and services in the aviation industry. In addition to the theoretical foundations of marketing, the lectures present s		
and implementation	and product analysis, creation of marketing strategies and planning.	ysterns or market,	compeniion
21Y2MQ	Quality Management	KZ	2
	adanty Management ition. Pioneers in the field of quality. International quality organisations and quality promotion in the Czech Republic. Quality manage		
•	ms. Integrated management systems. Risk management in the context of the requirements of ISO standards. Sectoral quality manager	•	
managomoni oyotol	quality management, excellence models and corporate social responsibility. Quality audits.	none dydiomic. Con	iprononoivo
21Y2MS	Aerospace Engineering Simulation and Modelling	KZ	2
ı	gned as a set of exemplary tasks and problems based on practical aviation issues. The university degree mathematic skills and softw		_
-	essful figuring out. Both simple tasks, where students create own model themselves (e.g. in Matlab), and more complicated problems	* *	-
,	tools will be applied.		
21Y2PL	Operational Aspects of Aerodromes	KZ	2
	ts of aerodromes. Location of aerodrome and orientation of runways. Requirements for apron. Capacity of airports runways and term		
operanonal aspec	conditions. Firefighting units. Protection against unlawful interference. Local transport connection. Environmental protection		
21Y2PP	Law and Operation in Air Transport	KZ	2
	ation law. International conventions on civil aviation. International organisations and including of the Czech Republic in these organis		
	on of state administration and state supervision in matters of civil aviation, in accordance with Act No. 49/1997 Col. Facilitation. Resp.	_	
	passengers, luggage and cargo. The safe transport of dangerous goods.		
21Y2S1	Diploma Thesis Seminar 1	KZ	2
	es (review, applied research, basic research, work dealing with design proposals). Working with citation sources (citation databases, o		
,,	current state (writing standards). Definition of the limitations of the current state. Introduction to the methodology of writing final ti		,
21Y2S2	Diploma Thesis Seminar 2	KZ	2
	ing final theses. Definition of materials and methods, approach to obtaining results, presentation and discussion of results, formulation		
	asic statistics, validation of results and proposals. Achieving the objectives of the paper and evaluation of hypotheses tests. Formal ar		
, , , , , , , , , , , , , , , , , , , ,	- working with LaTeX and Word template.	3 4 3	
22SLN	Air Traffic Accident Investigation	KZ	2
l l	ensic expertise. Rregulations and establishments for exceptional events in air traffic. Analysis of air traffic accidents (cause investigation		
	Air traffic accidents prevention. Exceptional aviation event report. Analysis of particular accidents in air traffic.	,	, ,
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	simulation, multi body systems and vehicle active safety systems, vehicle slipping, external influence on virtual model, crash tests ev	aluation, single-tra	ck vehicle,
	vehicle passangers, pedestrian, traffic accident simulation and analysis.		

	Airport Security	KZ	4
Division of airport i	n terms of security, design, standards and conventions, forms of risk in general, the analysis and management of risk in the ground sec	urity, emergency	/ plans, mode
of airport security,	identification and security systems, radar systems and their role in security operations, scanning systems, X-rays and microwave scanr	ners, intelligence	services and
	security services at the airport, the technology used to ensure the security.		
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 preval	ent topics include data management, data and text mining applications, terrorism informatics, deception and intent detection, terrorist	and criminal soc	ial network
	analysis, crime analysis, cyber-infrastructure protection, transportation infrastructure security, and information assurance, among	others.	
23Y2FB	Physics for Security Branches	KZ	2
Grounds of phy	sics of substances and phenomena at extreme conditions. Grounds of rheology. Physics of Earth's interior. Geophysics. Physics of at	mosphere. Appli	cations in
	dengineering branches directed to safety.		
23Y2MA	Risk Analysis and Management	KZ	•
ZSIZIVIA	Nisk Analysis and Management	NZ.	2
Concept of risks a	nd terms. Risk sources, definition of hazard, impacts and risks. Methods for identification, analysis, assessment and management of r	isks. Risk engine	eering targets
Concept of risks a		isks. Risk engine	ering targets
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