Study plan

Name of study plan: PL nav.prez.23/24 (pro program PL)

Faculty/Institute/Others: Department: Branch of study guaranteed by the department: Welcome page Garantor of the study branch: Program of study: Air Traffic Control and Management Type of study: Follow-up master full-time Required credits: 70 Elective courses credits: 50 Sum of credits in the plan: 120 Note on the plan:

Name of the block: Compulsory courses Minimal number of credits of the block: 54 The role of the block: Z

Code of the group: 1.S.NPPL 22/23 Name of the group: 1.sem.nav.prez.PL (od) 22/23 (program PL) 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:

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Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
11APAS	Applied Statistics Evženie Uglickich, Pavla Pecherková Pavla Pecherková	Z,ZK	4	2P+2C+12E	8 Z	Z
11MMJ	Mathematical Models and their Applications Evženie Uglickich, Pavla Pecherková, Šárka Vorá ová, Ivan Nagy, Michal Matowicki Pavla Pecherková Evženie Uglickich (Gar.)	Z,ZK	4	2P+2C+12E	8 Z	Z
21BILD	Safety Engineering in Aviation Natalia Guskova, Kate ina Grötschelová, Andrej Lališ Andrej Lališ	Z,ZK	4	2P+2C+12E	8 Z	Z
21CNSS	CNS Systems Stanislav Pleninger, Jakub Steiner Stanislav Pleninger	Z,ZK	5	3P+2C+16E	8 Z	Z
21LETS	Airport Petr Líka, Sébastien Lán, Petr Had, Ji í Volt, Slobodan Stoji Slobodan Stoji	Z,ZK	4	1P+2C+12E	B Z	Z
21PEKL	Principles and Models in Air Transport Economics Peter Vittek Peter Vittek	Z,ZK	5	4P+2C+16E	8 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+10E	3 Z	Z

Characteristics of the courses of this group of Study Plan: Code=1.S.NPPL 22/23 Name=1.sem.nav.prez.PL (od) 22/23 (program PL)

11APAS	Applied Statistics	Z,ZK	4
Descriptive statistics, da	ta preprocessing, discretize continuous data. Hypothesis testing - continuous and discrete variables. Regression and correlati	on analysis. Multiv	ariable methods
- multiple regression an	alysis, logistic regression analysis, ROC curve, MANOVA, PCA, Factor analysis. Power analysis, preparation, processing and	d evaluation of hte	experiment.
11MMJ	Mathematical Models and their Applications	Z,ZK	4
System. Regression, dis	crete and logistic models. Bayesian estimation of model parameters. Parameter estimation of normal regression, discrete ar	d logistic models.	Classification
with logistic model. One	-step and multi-step prediction with regression and discrete models. State model. State estimation. Kalman filter. Control with	regression and c	liscrete models.
21BILD	Safety Engineering in Aviation	Z,ZK	4
The course is focused of	n understanding the issue of safety, learning how to assess new systems in terms of safety and acquiring principles of safety	management. St	udents will learn
explaining accidents an	d incident causes and bridge their theoretical knowledge with practical problems of air transport.		
21CNSS	CNS Systems	Z,ZK	5
Course provides full tec	hnical informations about CNS (communication, navigation, surveilance) systems used in aviation. Systems are presented in p	perspective of futu	re development.
21LETS	Airport	Z,ZK	4
Methods of designing n	ew airports and developing existing ones. Connection of the airport to the surrounding infrastructure. Airport economics. Deta	ailed look at the d	evelopment of
movement areas. Certif	ication of airside movement areas and procedures according to EASA CS-ADR-DSN. Development planning - design, prepa	ration and regulat	ory basis.
Environmental aspects	of airport operations.		

21PEKL	Principles and Models in Air Transport Economics	Z,ZK	5
The course contains the	most important and typical models on which the economics of air transport is based. It covers the principles of regulation, ai	rline infrastructure	models, market
structure, analyses airli	ne costs, and looks in detail at the low-cost and charter airline model. It also focuses on airline alliances, air cargo, airline strat	egies and the ecc	nomic principles
of safety and security.			
15J2A1	Language - English 1	Z	2
Presentation Skills - ex	pert technical discourse and style. Analysis of expert texts and their production. Preparation for overseas work engagement		

Code of the group: 2.S.NPPL 22/23 Name of the group: 2.sem.nav.prez.PL (od) 22/23 (program PL) 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 6 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
21AFM	Air Traffic Management Terézia Pilmannová Terézia Pilmannová Jakub Kraus (Gar.)	Z,ZK	5	3P+2C+16B	L	Z
21MULD	Managerial Challenges in Air Transport Peter Vittek Peter Vittek (Gar.)	Z,ZK	5	3P+2C+14B	L	Z
21PLET	Airport Operations Sébastien Lán, Petr Had, Ji í Volt Slobodan Stoji (Gar.)	Z,ZK	5	2P+2C+12B	L	Z
21SPOL	Aircraft Technology Reliability Natalia Guskova, Kate ina Grötschelová, Old ich Štumbauer Andrej Lališ (Gar.)	Z,ZK	4	2P+1C+12B	L	Z
21PAM1	Programming and Modelling 1 Vladimír Socha, Lenka Hanáková Vladimír Socha (Gar.)	KZ	5	2P+4C+16B	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 L	Z

Characteristics of the courses of this group of Study Plan: Code=2.S.NPPL 22/23 Name=2.sem.nav.prez.PL (od) 22/23 (pr	ogram PL)
21AFM Air Traffic Management	Z,ZK	5
Current ATM system and its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Data	exchange with n	eighboring ATM
systems. Monitoring systems and technical supervision. ATM simulation. ATM conceptions and strategies for next years. EUROCONTROL - CFMU. FAE	3. ATS's - AOC's d	ata applications.
21MULD Managerial Challenges in Air Transport	Z,ZK	5
The course contains a list of basic managerial tasks in aviation. The basic managerial tasks are quality assurance and operational safety, marketing	operations, marke	eting context
implementation, airline network management, fleet management and revenue management. The core disciplines also include project management, d	cost management	t and project
resource planning and management.		
21PLET Airport Operations	Z,ZK	5
Planning, design and modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capa	acity. Available too	ols and practices
for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport masterplan.		
21SPOL Aircraft Technology Reliability	Z,ZK	4
Subject deals with tuition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and	vorking of aerosp	ace engineering.
General legalities are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and the	hey are practical	illustration of its
security in The Czech Police Aviation Department.		
21PAM1 Programming and Modelling 1	KZ	5
Harmonic signals, their generation. Real signals, sampling theorem, aliasing. Signal filtering. Fourier transform (FT), discrete Fourier transform (DFT)	, fast Fourier tran	sform (FFT).
Spectrum estimation, spectral power density. Image - basic processing methods, 2D Fourier transform, noise filtering, edge detection, linear and non	linear methods,	brightness
transforms, geometric transforms, image compression.		
15JBA2 Language - English 2	Z	2
Presentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.	ľ	

Name of the block: Semestrální projekt Minimal number of credits of the block: 8 The role of the block: ZP

Code of the group: XN PL 1-4 22/23 Name of the group: Projekty nav. 1.-4.sem (od) 22/23 programu PL (PRE i KOMBI) 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
11XN1	Master Project 1 Ivan Nagy	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 Natalia Guskova, Andrej Lališ, Jakub Steiner, Slobodan Stoji , Peter Vittek, Terézia Pilmannová, Jakub Kraus, Vladimír Socha, Lenka Hanáková,	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 Ivan Nagy	Z	2	0P+2C+8B	L 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 P emysl 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.)		2	0P+2C+8B	6 L	ZP
18XN2	Master Project 2	Z	2	0P+2C+8B	L 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 Natalia Guskova, Kate ina Grötschelová, Andrej Lališ, Jakub Steiner, Slobodan Stoji , Peter Vittek, Terézia Pilmannová, Jakub Kraus, Lenka Hanáková,	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	5 L	ZP
23XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
11XN3L	Master Project 3	Z	2	0P+2C+8B	Z	ZP
12XN3L	Master Project 3	Z	2	0P+2C+8B	Z	ZP
14XN3L	Master Project 3 Vít Fábera Vít Fábera (Gar.)	Z	2	0P+2C+8B	Z	ZP
15XN3L	Master Project 3	Z	2	0P+2C+8B	Z	ZP
16XN3L	Master Project 3	Z	2	0P+2C+8B	Z	ZP
17XN3L	Master Project 3	Z	2	0P+2C+8B	Z	ZP
18XN3L	Master Project 3	Z	2	0P+2C+8B	Z	ZP
20XN3L	Master Project 3	Z	2	0P+2C+8B	Z	ZP
21XN3L	Master Project 3 Natalia Guskova, Kate ina Grötschelová, Andrej Lališ, Slobodan Stoji , Peter Vittek, Terézia Pilmannová, Jakub Kraus, Vladimír Socha, Lenka Hanáková,	z	2	0P+2C+8E	Z	ZP
22XN3L	Master Project 3	Z	2	0P+2C+8B	Z	ZP
23XN3L	Master Project 3	Z	2	0P+2C+8B	Z	ZP
11XN4L	Master Project 4	Z	2	0P+5C+8B	6 L	ZP
12XN4L	Master Project 4	Z	2	0P+5C+8B	S L	ZP
14XN4L	Master Project 4 Vít Fábera, Tomáš Brandejský, Mária Jánešová, Jan Zelenka	Z	2	0P+5C+8B	L	ZP
15XN4L	Master Project 4	Z	2	0P+5C+8B	L	ZP
16XN4L	Master Project 4	Z	2	0P+5C+8B	L	ZP

17XN4L	Master Project 4	Z	2	0P+5C+8B	L	ZP
18XN4L	Master Project 4	Z	2	0P+5C+8B	L	ZP
20XN4L	Master Project 4	Z	2	0P+5C+8B	L	ZP
21XN4L	Master Project 4 Natalia Guskova, Kate ina Grötschelová, Andrej Lališ, Stanislav Pleninger, Jakub Steiner, Petr Had, Ji í Volt, Slobodan Stoji , Peter Vittek,	Z	2	0P+5C+8B	L	ZP
22XN4L	Master Project 4	Z	2	0P+5C+8B	L	ZP
23XN4L	Master Project 4	Z	2	0P+5C+8B	L	ZP

Characteristics of the courses of this group of Study Plan: Code=XN PL 1-4 22/23 Name=Projekty nav. 1.-4.sem (od) 22/23 programu PL (PRE i KOMBI)

11XN1Master Project12XN1Master Project14XN1Master Project15XN1Master Project16XN1Master Project17XN1Master Project18XN1Master Project20XN1Master Project21XN1Master Project23XN1Master Project11XN2Master Project	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Z Z Z Z Z Z Z Z Z Z Z Z	2 2 2 2 2 2 2 2 2 2 2 2 2 2
14XN1Master Project15XN1Master Project16XN1Master Project17XN1Master Project18XN1Master Project20XN1Master Project21XN1Master Project22XN1Master Project23XN1Master Project11XN2Master Project	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Z Z Z Z Z Z Z Z Z	2 2 2 2 2 2 2 2
15XN1Master Project16XN1Master Project17XN1Master Project18XN1Master Project20XN1Master Project21XN1Master Project22XN1Master Project23XN1Master Project11XN2Master Project	1 1 1 1 1 1 1 1 1 1 1 1 1 1	Z Z Z Z Z Z Z Z	2 2 2 2 2 2
16XN1Master Project17XN1Master Project18XN1Master Project20XN1Master Project21XN1Master Project22XN1Master Project23XN1Master Project11XN2Master Project	1 1 1 1 1 1 1 1 1 1	Z Z Z Z Z Z	2 2 2 2
17XN1Master Project18XN1Master Project20XN1Master Project21XN1Master Project22XN1Master Project23XN1Master Project11XN2Master Project	1 1 1 1 1 1 1 1 1 1	Z Z Z Z Z	2 2 2
18XN1Master Project20XN1Master Project21XN1Master Project22XN1Master Project23XN1Master Project11XN2Master Project	1	Z Z Z Z	2 2
20XN1Master Project21XN1Master Project22XN1Master Project23XN1Master Project11XN2Master Project	1	Z Z Z	2
21XN1Master Project22XN1Master Project23XN1Master Project11XN2Master Project	1 1	Z Z	
22XN1Master Project23XN1Master Project11XN2Master Project	1	Z	2
23XN1 Master Project 11XN2 Master Project			
11XN2 Master Project 2	1		2
	•	Z	2
	2	Z	2
12XN2 Master Project 2	2	Z	2
14XN2 Master Project 2	2	Z	2
15XN2 Master Project 2	2	Z	2
16XN2 Master Project 2	2	Z	2
17XN2 Master Project 2	2	Z	2
18XN2 Master Project 2	2	Z	2
20XN2 Master Project 2	2	Z	2
21XN2 Master Project 2	2	Z	2
22XN2 Master Project 2	2	Z	2
23XN2 Master Project 2	2	Z	2
11XN3L Master Project 3	3	Z	2
12XN3L Master Project 3	3	Z	2
14XN3L Master Project 3	3	Z	2
15XN3L Master Project 3	3	Z	2
16XN3L Master Project 3	3	Z	2
17XN3L Master Project 3	3	Z	2
18XN3L Master Project 3	3	Z	2
20XN3L Master Project 3	3	Z	2
21XN3L Master Project 3	3	Z	2
22XN3L Master Project 3	3	Z	2
23XN3L Master Project 3	3	Z	2
11XN4L Master Project	4	Z	2
12XN4L Master Project	4	Z	2
14XN4L Master Project		Z	2
15XN4L Master Project		Z	2
16XN4L Master Project	4	Z	2
17XN4L Master Project		Z	2
18XN4L Master Project		Z	2
20XN4L Master Project		Z	2
21XN4L Master Project	4	Z	2
22XN4L Master Project		Z	2
23XN4L Master Project		Z	2

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 23/24 Name of the group: PVP nav.prez. program PL 23/24 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
21Y2BS	Unmanned aircraft systems 2 Tomáš Tlu ho, Michal erný	KZ	2	2P+0C	L	PV
21Y2CR	CRM	KZ	2	2P+0C	L	PV
21Y2FM	Aviation Company Financial Management Radoslav Zozu ák Radoslav Zozu ák	KZ	2	2P+0C+8E	B Z	PV
21Y2LS	Air Traffic Services	KZ	2	2P+0C+8E	B L	PV
21Y2MQ	Quality Management Luboš Socha	KZ	2	2P+0C+8E	B L	PV
21Y2MK	Marketing of Air Transport Peter Vittek Peter Vittek	KZ	2	2P+0C+8E	B Z	PV
22Y2MN	Methods and Procedures of Aircraft Accident Investigation Michal Frydrýn, Karel Mündel Karel Mündel (Gar.)	KZ	2	2P+0C	L	PV
21Y2MC	CNS Systems Modelling Stanislav Pleninger Stanislav Pleninger	KZ	2	2P+0C+8E	B Z	PV
21Y2PP	Law and Operation in Air Transport Radoslav Zozu ák	KZ	2	2P+0C+8E	B L	PV
21Y2UL	Aircraft Maintenance Tomáš Parýzek	KZ	2	2P+0C+8E	B L	PV
14Y2UI	Artificial Intelligence	KZ	2	2P+0C+8E	BZ,L	PV
15Y2ZA	Basic Principles of English Academic Writing and Abstract in English	KZ	2	2P+0C	Z	PV

Characteristics of the courses of this group of Study Plan: Code=Y2-NPPL 23/24 Name=PVP nav.prez. program PL 23/24

21Y2BS	Unmanned aircraft systems 2	KZ	2
Modern trends in unmai	nned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights	beyond the appli	cable legislation.
21Y2CR	CRM	KZ	2
Introduction to CRM. Ar	alysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the h	uman body. Fatigu	ue Sleep &
Vigilance. Information F	Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership & amp; Team Behav	viour. Automation.	
21Y2FM	Aviation Company Financial Management	KZ	2
Theories of corporate fi	nance - financial statements, budget, forecast. Financial policy of the company. Financial resources - long-term financial reso	urces, depreciatio	on, retained
earnings, shares, bond	s, loans, leasing, capital. Financial and economic analysis of the company - structure and content.		
21Y2LS	Air Traffic Services	KZ	2
Airspace structure in Ca	zech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, A	PP a ACC contro	ol. History of ATS
at USA and Czechoslov	rakia. ATS - Model of financing. Training Systém of Air Traffic Controllers. Future development of ATS.		
21Y2MQ	Quality Management	KZ	2
History, basic definition	Pioneers in the field of quality. International quality organisations and quality promotion in the Czech Republic. Quality mana	gement system.	Environmental
management systems.	Integrated management systems. Risk management in the context of the requirements of ISO standards. Sectoral quality mana	agement systems.	Comprehensive
quality management, ex	cellence models and corporate social responsibility. Quality audits.		
21Y2MK	Marketing of Air Transport	KZ	2
The content of the cour	se "Marketing in air transport" is the management of activities and processes using available marketing tools and processes i	or analysis, strate	egy development
and implementation of	sales of goods and services in the aviation industry. In addition to the theoretical foundations of marketing, the lectures prese	nt systems of mar	rket, competition
and product analysis, c	reation of marketing strategies and planning.		
22Y2MN	Methods and Procedures of Aircraft Accident Investigation	KZ	2
Expanding knowledge	of practical procedures in aircraft accident investigation. Equipment and organisation of the investigation team. Examples of a	ircraft accident in	vestigations in
the Czech Republic and	a abroad and analysis of published final reports. Examples of the preparation of the final report of an air accident investigation	۱.	
21Y2MC	CNS Systems Modelling	KZ	2
The course is designed	as a set of model tasks in the field of communication navigation and surveillance systems in aviation, addressed using mathe	matical approach	nes and software
tools. A large part is de	voted to air targets tracking, measurement-to-track association, track filtering and multisensor tracking.		
21Y2PP	Law and Operation in Air Transport	KZ	2
Development of aviation	naw. International conventions on civil aviation. International organisations and including of the Czech Republic in these orga	anisations. EU leg	islation and civil
aviation. Execution of s	tate administration and state supervision in matters of civil aviation, in accordance with Act No. 49/1997 Col. Facilitation. Resp	oonsibilities of air	carriers for
passengers, luggage a	nd cargo. The safe transport of dangerous goods.		
21Y2UL	Aircraft Maintenance	KZ	2
Approved Maintenance	Organisations (AMOs), Continuing Airworthiness Management Organisations (CAMOs), Maintenance Training Organisations	(MTOs), technica	al documentation
and additional ICA (Inst	ructions for Continued Airworthiness) instructions, aircraft release to service procedure, maintenance programmes and sche	duling, modificatio	ons and general
repair methods, aircraft	centre of gravity and weights, human factors in aircraft maintenance.		
14Y2UI	Artificial Intelligence	KZ	2
History of artificial intell	igence, knowledge, its representation including frames, state space search, constraints, genetic algorithms, machine learning	J.	
15Y2ZA	Basic Principles of English Academic Writing and Abstract in English	KZ	2
Theory, creating a phra	sal bank according to students' specialisations, rhetorical analysis or texts/abstracts, drafting an abstract, providing effective	eedback.	

List of courses of this pass:

Code	Name of the course	Completion	Credits
11APAS	Applied Statistics	Z,ZK	4
	s, data preprocessing, discretize continuous data. Hypothesis testing - continuous and discrete variables. Regression and correlation a	-	
· · ·	ion analysis, logistic regression analysis, ROC curve, MANOVA, PCA, Factor analysis. Power analysis, preparation, processing and o		periment.
11MMJ	Mathematical Models and their Applications	Z,ZK	4
	on, discrete and logistic models. Bayesian estimation of model parameters. Parameter estimation of normal regression, discrete and		
	. One-step and multi-step prediction with regression and discrete models. State model. State estimation. Kalman filter. Control with re		1
11XN1	Master Project 1	Z	2
11XN2	Master Project 2	Z	2
11XN3L	Master Project 3	Z	2
11XN4L	Master Project 4	Z	2
12XN1	Master Project 1	Z	2
12XN2	Master Project 2	Z	2
12XN3L	Master Project 3	Z	2
12XN4L	Master Project 4	Z	2
14XN1	Master Project 1	Z	2
14XN2	Master Project 2	Z	2
14XN3L	Master Project 3	Z	2
14XN4L	Master Project 4	Z	2
14Y2UI	Artificial Intelligence	KZ	2
His	tory of artificial intelligence, knowledge, its representation including frames, state space search, constraints, genetic algorithms, made	chine learning.	
15J2A1	Language - English 1	Z	2
	resentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work	engagement.	
15JBA2	Language - English 2	Z	2
	resentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work	engagement.	
15XN1	Master Project 1	Z	2
15XN2	Master Project 2	Z	2
15XN3L	Master Project 3	Z	2
15XN4L	Master Project 4	Z	2
15Y2ZA	Basic Principles of English Academic Writing and Abstract in English	KZ	2
	, creating a phrasal bank according to students' specialisations, rhetorical analysis or texts/abstracts, drafting an abstract, providing e		
16XN1	Master Project 1	Z	2
16XN2	Master Project 2	Z	2
16XN3L	Master Project 3	Z	2
16XN4L	Master Project 4	Z	2
17XN1	Master Project 1	Z	2
17XN2	Master Project 2	Z	2
17XN3L	Master Project 3	Z	2
17XN4L	Master Project 4	Z	2
18XN1	Master Project 1	Z	2
18XN2	Master Project 2	Z	2
18XN3L	Master Project 3	Z	2
18XN4L	Master Project 4	Z	2
20XN1	Master Project 1	Z	2
20XN2	Master Project 2	Z	2
20XN3L	Master Project 3	Z	2
20XN3L 20XN4L	Master Project 3	Z	2
20XN4L 21AFM	Air Traffic Management	Z,ZK	 5
	m and its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Data ex		-
	g systems and technical supervision. ATM simulation. ATM conceptions and strategies for next years. EUROCONTROL - CFMU. FAB. A		
21BILD	Safety Engineering in Aviation	Z,ZK	4
	sed on understanding the issue of safety, learning how to assess new systems in terms of safety and acquiring principles of safety may		-
	explaining accidents and incident causes and bridge their theoretical knowledge with practical problems of air transport.	<u> </u>	
21CNSS	CNS Systems	Z,ZK	5
	Il technical informations about CNS (communication, navigation, surveilance) systems used in aviation. Systems are presented in pers		evelopmen
	Airport	Z,ZK	4
21LETS	, in point	· ·	
Methods of design	ning new airports and developing existing ones. Connection of the airport to the surrounding infrastructure. Airport economics. Detaile s. Certification of airside movement areas and procedures according to EASA CS-ADR-DSN. Development planning - design, prepar		-

21MULD			
	Managerial Challenges in Air Transport	Z,ZK	5
	ains a list of basic managerial tasks in aviation. The basic managerial tasks are quality assurance and operational safety, marketing o	•	0
implementation,	airline network management, fleet management and revenue management. The core disciplines also include project management, c resource planning and management.	ost management a	and project
21PAM1	Programming and Modelling 1	KZ	5
	s, their generation. Real signals, sampling theorem, aliasing. Signal filtering. Fourier transform (FT), discrete Fourier transform (DFT),		-
	ation, spectral power density. Image - basic processing methods, 2D Fourier transform, noise filtering, edge detection, linear and non		, ,
·	transforms, geometric transforms, image compression.		0
21PEKL	Principles and Models in Air Transport Economics	Z,ZK	5
he course contair	is the most important and typical models on which the economics of air transport is based. It covers the principles of regulation, airline	e infrastructure mo	dels, mar
ructure, analyses	airline costs, and looks in detail at the low-cost and charter airline model. It also focuses on airline alliances, air cargo, airline strategi	es and the econon	nic princip
	of safety and security.		
21PLET	Airport Operations	Z,ZK	5
anning, design a	nd modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit	-	and practic
040001	for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport mast		
21SPOL	Aircraft Technology Reliability	Z,ZK	4
	tuition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and wor are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and the		
eneral legalities a	security in The Czech Police Aviation Department.	y are practical life	Stration of
21XN1	Master Project 1	Z	2
21XN2	Master Project 2	Z	2
21XN2		Z	-
-	Master Project 3		2
21XN4L	Master Project 4	Z	2
21Y2BS	Unmanned aircraft systems 2	KZ	2
	nmanned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights be		
21Y2CR	CRM	KZ	2
	M. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the hum		•
	Information Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership & amp; Team E	1	-
21Y2FM	Aviation Company Financial Management	KZ	2
Theories of corp	porate finance - financial statements, budget, forecast. Financial policy of the company. Financial resources - long-term financial resources, shares, bonds, loans, leasing, capital. Financial and economic analysis of the company - structure and content.	-	i, retained
21Y2LS		KZ	2
	Air Traffic Services in Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, APF	1	1
inspace structure	at USA and Czechoslovakia. ATS - Model of financing. Training Systém of Air Traffic Controllers. Future development of ATS		
21Y2MC	CNS Systems Modelling	KZ	2
	gned as a set of model tasks in the field of communication navigation and surveillance systems in aviation, addressed using mathema	1	
	tools. A large part is devoted to air targets tracking, measurement-to-track association, track filtering and multisensor tracking		
21Y2MK	Marketing of Air Transport	-	2
21Y2MK he content of the	Marketing of Air Transport course "Marketing in air transport" is the management of activities and processes using available marketing tools and processes for a	KZ	2 developm
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