## Study plan

## Name of study plan: Master Part-Time PL from 2025/26

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 combined 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: 1S-NK-PL-22/23 Name of the group: 1st Sem. Master Part-Time PL from 2022/23 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:

Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their Code Completion Credits Scope Semester Role members) Tutors, authors and guarantors (gar.) **Applied Statistics** 11APAS Z.ZK 2P+2C+12B 7 4 7 Evženie Uglickich, Pavla Pecherková Pavla Pecherková Mathematical Models and their Applications Evženie Uglickich, Pavla Pecherková, Ivan Nagy, Michal Matowicki, Natálie Blahitka **Pavla Pecherková** Evženie Uglickich (Gar.) Ζ 11MMJ Z,ZK 4 2P+2C+12B 7 Safety Engineering in Aviation 2P+2C+12B 21BILD Ζ Z,ZK 4 Ζ Natalia Guskova, Kate ina Grötschelová, Andrej Lališ Andrej Lališ **CNS Systems** 21CNSS 5 Ζ 3P+2C+16B Z,ZK Ζ Stanislav Pleninger, Jakub Steiner Stanislav Pleninger Airport 21LETS Z,ZK 4 1P+2C+12B Ζ Z Jakub Kraus, Petr Líka , Sébastien Lán, Petr Had, Ji í Volt, Slobodan Stoji Slobodan Stoji **Principles and Models in Air Transport Economics** 21PEKL Z,ZK 5 4P+2C+16B Ζ Ζ Peter Vittek Peter Vittek Language - English 1 15J2A1 Ζ 2 0P+2C+10B Ζ Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerová 7 Characteristics of the courses of this group of Study Plan: Code=1S-NK-PL-22/23 Name=1st Sem. Master Part-Time PL from 2022/23 11APAS **Applied Statistics** Z.ZK Descriptive statistics, data preprocessing, discretize continuous data. Hypothesis testing - continuous and discrete variables. Regression and correlation analysis. Multivariable methods - multiple regression analysis, logistic regression analysis, ROC curve, MANOVA, PCA, Factor analysis. Power analysis, preparation, processing and evaluation of hte experiment. 11MMJ Mathematical Models and their Applications Z.ZK 4 System. Regression, discrete and logistic models. Bayesian estimation of model parameters. Parameter estimation of normal regression, discrete and 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 discrete models. 21BILD Safety Engineering in Aviation Z,ZK 4 The course is focused on understanding the issue of safety, learning how to assess new systems in terms of safety and acquiring principles of safety management. Students will learn explaining accidents and incident causes and bridge their theoretical knowledge with practical problems of air transport. 21CNSS **CNS Systems** Z.ZK 5 Course provides full technical informations about CNS (communication, navigation, surveilance) systems used in aviation. Systems are presented in perspective of future development.

 Course provides full technical informations about CNS (communication, navigation, surveilance) systems used in aviation. Systems are presented in perspective of future development.

 21LETS
 Airport
 Z,ZK
 4

 Methods of designing new airports and developing existing ones. Connection of the airport to the surrounding infrastructure. Airport economics. Detailed look at the development of movement areas. Certification of airside movement areas and procedures according to EASA CS-ADR-DSN. Development planning - design, preparation and regulatory 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	e 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: 2S-NK-PL-22/23 Name of the group: 2nd Sem. Master Part-Time PL from 2022/23 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 Jakub Kraus, Terézia Pilmannová, Martina Hlavatá <b>Jakub Kraus</b> 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 Slobodan Stoji (Gar.)	Z,ZK	5	2P+2C+12B	L	Z
21SPOL	Aircraft Technology Reliability Natalia Guskova, Kate ina Grötschelová, Old ich Štumbauer, Kiyofolo Benjamin Ouattara Andrej Lališ (Gar.)	Z,ZK	4	2P+1C+12B	L	Z
21PAM1	Programming and Modelling 1 Vladimír Socha, Lenka Hanáková Vladimír Socha Vladimír Socha (Gar.)	KZ	5	2P+4C+16B	L	Z
15JBA2	Language - English 2 Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerová,	Z	2	0P+2C+10B	L	Z

#### Characteristics of the courses of this group of Study Plan: Code=2S-NK-PL-22/23 Name=2nd Sem. Master Part-Time PL from 2022/23

21AFM	Air Traffic Management	Z,ZK	5
Current ATM system an	d its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Data	exchange with n	eighboring ATM
systems. Monitoring sys	tems and technical supervision. ATM simulation. ATM conceptions and strategies for next years. EUROCONTROL - CFMU. FA	B. ATS's - AOC's d	ata applications.
21MULD	Managerial Challenges in Air Transport	Z,ZK	5
The course contains a l	ist of basic managerial tasks in aviation. The basic managerial tasks are quality assurance and operational safety, marketing	operations, mark	eting context
implementation, airline	network management, fleet management and revenue management. The core disciplines also include project management,	cost managemen	t and project
resource planning and	management.		
21PLET	Airport Operations	Z,ZK	5
Planning, design and m	odelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport cap	acity. Available to	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	n of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and	working 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 t	hey are practical	illustration of its
security in The Czech F	olice 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 trar	sform (FFT).
Spectrum estimation, s	pectral power density. Image - basic processing methods, 2D Fourier transform, noise filtering, edge detection, linear and nor	linear methods,	brightness
transforms, geometric t	ransforms, image compression.		
15JBA2	Language - English 2	Z	2
Presentation Skills - exp	pert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.		

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

Code of the group: X2-NX-PL-22/23 Name of the group: Research Groups Master PL from 2022/23 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 Pavla Pecherková, Jana Kuklová Jana Kuklová Jana Kuklová (Gar.)	Z	2	0P+2C+4B	Z	ZP
12XN1	Master Project 1 Daniel Chlebek, Jakub Zají ek, Zuzana arská, Dagmar Ko árková, Kristýna Neubergová, Martín Jacura, Jan Kruntorád, Ond ej Trešl, David Vodák,	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 Josef Mík, 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 Franz Heidu, Tomáš Horák, Vít Janoš, Milan K íž,	Z	2	0P+2C+4B	z	ZP
18XN1	Master Project 1 Daniel Kytý, Václav Rada, Nela Kr má ová	Z	2	0P+2C+4B	Z	ZP
20XN1	Master Project 1 Milan Sliacky, Ji í R ži ka	Z	2	0P+2C+4B	Z	ZP
21XN1	Master Project 1 Natalia Guskova, Andrej Lališ, Stanislav Pleninger, Jakub Steiner, Jakub Kraus, Slobodan Stoji , Peter Vittek, Terézia Pilmannová, Vladimír Socha,	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 Pavla Pecherková, Jana Kuklová Jana Kuklová Jana Kuklová (Gar.)	Z	2	0P+2C+8B	L	ZP
12XN2	Master Project 2 Daniel Chlebek, Jakub Zají ek, Zuzana arská, Dagmar Ko árková, Kristýna Neubergová, Martin Jacura, Jan Kruntorád, Ond ej Trešl, David Vodák,	Z	2	0P+2C+8B	L	ZP
14XN2	Master Project 2 Vít Fábera, Tomáš Brandejský, Mária Jánešová, Jan Zelenka	Z	2	0P+2C+8B	L	ZP
15XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
16XN2	Master Project 2 Josef Mik, P emysl Toman	Z	2	0P+2C+8B	L	ZP
17XN2	Master Project 2 Václav Baroch, Michal Drábek, Alexandra Dvo á ková, Veronika Faifrová, Rudolf Franz Heidu, Tomáš Horák, Vít Janoš, Milan K íž, Olga Mertlová, Vít Janoš (Gar.)	Z	2	0P+2C+8B	L	ZP
18XN2	Master Project 2 Nela Kr má ová, Petr Koudelka, Tomáš Fíla Daniel Kytý	Z	2	0P+2C+8B	L	ZP
20XN2	Master Project 2 Milan Sliacky, Ji í R ži ka, Patrik Horaž ovský	Z	2	0P+2C+8B	L	ZP
21XN2	Master Project 2 Natalia Guskova, Kate ina Grötschelová, Andrej Lališ, Jakub Steiner, Jakub Kraus, Slobodan Stoji, Peter Vittek, Terézia Pilmannová, 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	L	ZP
23XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
11XN3L	Master Project 3 for study programme PL Ivan Nagy, Michal Matowicki, Jana Kuklová, Bohumil Ková, Ond ej Pibyl, Jan Pikryl <b>Jana Kuklová</b> Bohumil Ková (Gar.)	Z	2	0P+2C+8B	Z	ZP
12XN3L	Master Project 3 for study programme PL	Z	2	0P+2C+8B	Z	ZP
14XN3L	Master Project 3 for study programme PL Vít Fábera Vít Fábera (Gar.)	Z	2	0P+2C+8B	Z	ZP
15XN3L	Master Project 3 for study programme PL	Z	2	0P+2C+8B	Z	ZP
16XN3L	Master Project 3 for study programme PL	Z	2	0P+2C+8B	Z	ZP
17XN3L	Master Project 3 for study programme PL	Z	2	0P+2C+8B	Z	ZP
18XN3L	Master Project 3 for study programme PL	Z	2	0P+2C+8B	Z	ZP
20XN3L	Master Project 3 for study programme PL	Z	2	0P+2C+8B	Z	ZP
21XN3L	Master Project 3 for study programme PL Natalia Guskova, Kate ina Grötschelová, Andrej Lališ, Stanislav Pleninger, Jakub Steiner, Jakub Kraus, Slobodan Stoji, Peter Vittek, Terézia Pilmannová,	z	2	0P+2C+8B	z	ZP
22XN3L	Master Project 3 for study programme PL	Z	2	0P+2C+8B	Z	ZP
23XN3L	Master Project 3	Z	2	0P+2C+8B	Z	ZP
11XN4L	Master Project 4 for study programme PL Jana Kuklová	Z	2	0P+5C+8B	L	ZP
12XN4L	Master Project 4 for study programme PL	Z	2	0P+5C+8B	L	ZP

14XN4L	Master Project 4 for study programme PL Vít Fábera, Tomáš Brandejský, Mária Jánešová, Jan Zelenka	Z	2	0P+5C+8B	L	ZP
15XN4L	Master Project 4 for study programme PL	Z	2	0P+5C+8B	L	ZP
16XN4L	Master Project 4 for study programme PL	Z	2	0P+5C+8B	L	ZP
17XN4L	Master Project 4 for study programme PL	Z	2	0P+5C+8B	L	ZP
18XN4L	Master Project 4 for study programme PL Nela Kr má ová	Z	2	0P+5C+8B	L	ZP
20XN4L	Master Project 4 for study programme PL	Z	2	0P+5C+8B	L	ZP
21XN4L	Master Project 4 for study programme PL Natalia Guskova, Kate ina Grötschelová, Andrej Lališ, Stanislav Pleninger, Jakub Steiner, Jakub Kraus, Petr Had, Ji í Volt, Slobodan Stoji ,	Z	2	0P+5C+8B	L	ZP
22XN4L	Master Project 4 for study programme PL	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=X2-NX-PL-22/23 Name=Research Groups Master PL from 2022/23

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
11XN3L	Master Project 3 for study programme PL	Z	2
12XN3L	Master Project 3 for study programme PL	Z	2
14XN3L	Master Project 3 for study programme PL	Z	2
15XN3L	Master Project 3 for study programme PL	Z	2
16XN3L	Master Project 3 for study programme PL	Z	2
17XN3L	Master Project 3 for study programme PL	Z	2
18XN3L	Master Project 3 for study programme PL	Z	2
20XN3L	Master Project 3 for study programme PL	Z	2
21XN3L	Master Project 3 for study programme PL	Z	2
22XN3L	Master Project 3 for study programme PL	Z	2
23XN3L	Master Project 3	Z	2
11XN4L	Master Project 4 for study programme PL	Z	2
12XN4L	Master Project 4 for study programme PL	Z	2
14XN4L	Master Project 4 for study programme PL	Z	2
15XN4L	Master Project 4 for study programme PL	Z	2
16XN4L	Master Project 4 for study programme PL	Z	2
17XN4L	Master Project 4 for study programme PL	Z	2
18XN4L	Master Project 4 for study programme PL	Z	2
20XN4L	Master Project 4 for study programme PL	Z	2
21XN4L	Master Project 4 for study programme PL	Z	2
22XN4L	Master Project 4 for study programme PL	Z	2
ZZANTE			

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-NK-PL-24/25

Name of the group: Comp. Sel. Courses Master Part-Time PL from 2024/25 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 <b>Tomáš Tlu ho</b>	KZ	2	2P+0C+8B	Z	PV
21Y2CR	CRM Ladislav Capoušek	KZ	2	2P+0C+8B	s L	PV
21Y2FM	Aviation Company Financial Management Radoslav Zozu ák Radoslav Zozu ák	KZ	2	2P+0C+8B	Z	PV
21Y2MQ	Quality Management Luboš Socha	KZ	2	2P+0C+8B	6 L	PV
21Y2MK	Marketing of Air Transport Peter Vittek Peter Vittek	KZ	2	2P+0C+8B	Z	PV
21Y2MC	CNS Systems Modelling Stanislav Pleninger Stanislav Pleninger	KZ	2	2P+0C+8B	Z	PV
21Y2PP	Law and Operation in Air Transport Radoslav Zozu ák	KZ	2	2P+0C+8B	L	PV
21Y2UL	Aircraft Maintenance Kate ina Stuchlíková	KZ	2	2P+0C+8B	L	PV
14Y2UI	Artificial Intelligence	KZ	2	2P+0C+8B	Z,L	PV

# Characteristics of the courses of this group of Study Plan: Code=Y2-NK-PL-24/25 Name=Comp. Sel. Courses Master Part-Time PL from 2024/25

21Y2BS	Unmanned aircraft systems 2	KZ	2
Modern trends in unn	anned 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.	Analysis 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	Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership & amp; Team Behav	viour. Automation.	
21Y2FM	Aviation Company Financial Management	KZ	2
Theories of corporate	finance - financial statements, budget, forecast. Financial policy of the company. Financial resources - long-term financial reso	urces, depreciatio	on, retained
earnings, shares, boi	ids, loans, leasing, capital. Financial and economic analysis of the company - structure and content.		
21Y2MQ	Quality Management	KZ	2
History, basic definition	on. Pioneers in the field of quality. International quality organisations and quality promotion in the Czech Republic. Quality mana	igement system. I	Environmental
management system	s. Integrated management systems. Risk management in the context of the requirements of ISO standards. Sectoral quality mana	agement systems.	Comprehensive
quality management	excellence models and corporate social responsibility. Quality audits.		
quality management,			-
21Y2MK	Marketing of Air Transport	KZ	2
21Y2MK	Marketing of Air Transport urse "Marketing in air transport" is the management of activities and processes using available marketing tools and processes		
21Y2MK The content of the co		for analysis, strate	egy development
21Y2MK The content of the co and implementation of	urse "Marketing in air transport" is the management of activities and processes using available marketing tools and processes	for analysis, strate	egy development
21Y2MK The content of the co and implementation of	urse "Marketing in air transport" is the management of activities and processes using available marketing tools and processes if sales of goods and services in the aviation industry. In addition to the theoretical foundations of marketing, the lectures prese	for analysis, strate	egy development
21Y2MK The content of the co and implementation of and product analysis 21Y2MC	urse "Marketing in air transport" is the management of activities and processes using available marketing tools and processes if sales of goods and services in the aviation industry. In addition to the theoretical foundations of marketing, the lectures prese creation of marketing strategies and planning.	for analysis, strate nt systems of mai KZ	egy development ket, competition
21Y2MK The content of the cc and implementation and product analysis 21Y2MC The course is design	urse "Marketing in air transport" is the management of activities and processes using available marketing tools and processes of sales of goods and services in the aviation industry. In addition to the theoretical foundations of marketing, the lectures prese creation of marketing strategies and planning. CNS Systems Modelling	for analysis, strate nt systems of mai KZ	egy development ket, competition
21Y2MK The content of the cc and implementation and product analysis 21Y2MC The course is design	urse "Marketing in air transport" is the management of activities and processes using available marketing tools and processes of sales of goods and services in the aviation industry. In addition to the theoretical foundations of marketing, the lectures prese creation of marketing strategies and planning. CNS Systems Modelling ad as a set of model tasks in the field of communication navigation and surveillance systems in aviation, addressed using mathe	for analysis, strate nt systems of mai KZ	egy development ket, competition
21Y2MK The content of the cc and implementation of and product analysis 21Y2MC The course is design tools. A large part is 21Y2PP	urse "Marketing in air transport" is the management of activities and processes using available marketing tools and processes of sales of goods and services in the aviation industry. In addition to the theoretical foundations of marketing, the lectures prese creation of marketing strategies and planning. CNS Systems Modelling ed as a set of model tasks in the field of communication navigation and surveillance systems in aviation, addressed using mathematical to air targets tracking, measurement-to-track association, track filtering and multisensor tracking.	for analysis, strate nt systems of man KZ ematical approach KZ	egy development rket, competition 2 nes and software 2
21Y2MK The content of the cc and implementation of and product analysis 21Y2MC The course is design tools. A large part is 21Y2PP Development of aviat	urse "Marketing in air transport" is the management of activities and processes using available marketing tools and processes of sales of goods and services in the aviation industry. In addition to the theoretical foundations of marketing, the lectures prese creation of marketing strategies and planning. CNS Systems Modelling ed as a set of model tasks in the field of communication navigation and surveillance systems in aviation, addressed using mathematical to air targets tracking, measurement-to-track association, track filtering and multisensor tracking. Law and Operation in Air Transport	or analysis, strate nt systems of man KZ ematical approach KZ anisations. EU leg	egy development rket, competition 2 nes and software 2 islation and civil
21Y2MK The content of the cc and implementation of and product analysis 21Y2MC The course is design tools. A large part is 21Y2PP Development of aviat aviation. Execution of	urse "Marketing in air transport" is the management of activities and processes using available marketing tools and processes of sales of goods and services in the aviation industry. In addition to the theoretical foundations of marketing, the lectures prese creation of marketing strategies and planning. CNS Systems Modelling ed as a set of model tasks in the field of communication navigation and surveillance systems in aviation, addressed using mathematical to air targets tracking, measurement-to-track association, track filtering and multisensor tracking. Law and Operation in Air Transport ion law. International conventions on civil aviation. International organisations and including of the Czech Republic in these organisations.	or analysis, strate nt systems of man KZ ematical approach KZ anisations. EU leg	egy development rket, competition 2 nes and software 2 islation and civil
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## 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	-	
- multiple regress	ion analysis, logistic regression analysis, ROC curve, MANOVA, PCA, Factor analysis. Power analysis, preparation, processing and e	valuation of hte ex	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 lo	-	
	One-step and multi-step prediction with regression and discrete models. State model. State estimation. Kalman filter. Control with reg		
11XN1	Master Project 1	Z	2
11XN2	Master Project 2	<u>Z</u>	2
11XN3L	Master Project 3 for study programme PL	Z	2
11XN4L	Master Project 4 for study programme PL	Z	2
12XN1	Master Project 1	Z	2
12XN2	Master Project 2	Z	2
12XN3L	Master Project 3 for study programme PL	Z	2
12XN4L	Master Project 4 for study programme PL	Z	2
14XN1	Master Project 1	Z	2
14XN2	Master Project 2	Z	2
14XN3L	Master Project 3 for study programme PL	Z	2
14XN4L	Master Project 4 for study programme PL	Z	2
14Y2UI	Artificial Intelligence	KZ	2
His	tory of artificial intelligence, knowledge, its representation including frames, state space search, constraints, genetic algorithms, mach	nine learning.	I
15J2A1	Language - English 1	Z	2
Pi	esentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work e	ngagement.	
15JBA2	Language - English 2	Z	2
	esentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work e	ngagement.	
15XN1	Master Project 1	Z	2
15XN2	Master Project 2	Z	2
15XN3L	Master Project 3 for study programme PL	Z	2
15XN4L	Master Project 4 for study programme PL	Z	2
16XN1	Master Project 1	Z	2
16XN2	Master Project 2	Z	2
16XN3L	Master Project 3 for study programme PL	Z	2
16XN4L	Master Project 4 for study programme PL	Z	2
17XN1	Master Project 1	Z	2
17XN2	Master Project 2	Z	2
17XN3L	Master Project 3 for study programme PL	Z	2
17XN4L	Master Project 4 for study programme PL	Z	2
18XN1	Master Project 1	Z	2
18XN2	Master Project 2	Z	2
18XN3L	Master Project 3 for study programme PL	Z	2
18XN4L	Master Project 4 for study programme PL	Z	2
20XN1	Master Project 1	Z	2
20XN2	Master Project 2	Z	2
20XN3L	Master Project 3 for study programme PL	Z	2
20XN3L 20XN4L	Master Project 4 for study programme PL	Z	2
20/N4L 21AFM	Air Traffic Management	Z,ZK	5
	n and its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Data exc	•	-
	systems and technical supervision. ATM simulation. ATM conceptions and strategies for next years. EUROCONTROL - CFMU. FAB. AT		•
21BILD	Safety Engineering in Aviation	Z,ZK	4
	ed on understanding the issue of safety, learning how to assess new systems in terms of safety and acquiring principles of safety ma		nts will lear
	explaining accidents and incident causes and bridge their theoretical knowledge with practical problems of air transport.		
21CNSS	CNS Systems	Z,ZK	5
Course provides ful	I technical informations about CNS (communication, navigation, surveilance) systems used in aviation. Systems are presented in pers	pective of future de	evelopment
		7 71/	4
21LETS	Airport	Z,ZK	
Methods of design	 ing 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, prepara	d look at the deve	lopment of

21MULD			
1	Managerial Challenges in Air Transport	Z,ZK	5
	ins a list of basic managerial tasks in aviation. The basic managerial tasks are quality assurance and operational safety, marketing op		-
implementation, a	irline network management, fleet management and revenue management. The core disciplines also include project management, cos	st management a	and project
	resource planning and management.		
21PAM1	Programming and Modelling 1	KZ	5
-	their generation. Real signals, sampling theorem, aliasing. Signal filtering. Fourier transform (FT), discrete Fourier transform (DFT), fa		
Spectrum estima	tion, spectral power density. Image - basic processing methods, 2D Fourier transform, noise filtering, edge detection, linear and non-l	inear methods, b	orightness
	transforms, geometric transforms, image compression.		
21PEKL	Principles and Models in Air Transport Economics	Z,ZK	5
	s the most important and typical models on which the economics of air transport is based. It covers the principles of regulation, airline		
structure, analyses	airline costs, and looks in detail at the low-cost and charter airline model. It also focuses on airline alliances, air cargo, airline strategies	s and the econon	nic principles
	of safety and security.	/	
21PLET	Airport Operations	Z,ZK	5
Planning, design ar	d modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacity		and practice:
	for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport master	-	
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 work		
General legalities a	re in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and they	are practical illus	stration of its
	security in The Czech Police Aviation Department.		1
21XN1	Master Project 1	Z	2
21XN2	Master Project 2	Z	2
21XN3L	Master Project 3 for study programme PL	Z	2
21XN4L	Master Project 4 for study programme PL	Z	2
21Y2BS	Unmanned aircraft systems 2	KZ	2
-	manned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights bey		
21Y2CR	CRM	KZ	2
-	ا I. 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 & amp; Team Be		
21Y2FM		KZ	2
	Aviation Company Financial Management		1
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	earnings, shares, bonds, loans, leasing, capital. Financial and economic analysis of the company - structure and content.		
21Y2MC	earnings, shares, bonds, loans, leasing, capital. Financial and economic analysis of the company - structure and content. CNS Systems Modelling	KZ	2
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