## Study plan

### Name of study plan: Master Full-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 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: 104

The role of the block: Z

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

Name of the group: 1st Sem. Master Full-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:

Environmental aspects of airport operations.

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 Michal Matowicki, Evženie Uglickich, Pavla Pecherková Pavla Pecherková	Z,ZK	4	2P+2C+12B	Z	Z
11MMJ	Mathematical Models and their Applications Michal Matowicki, Evženie Uglickich, Pavla Pecherková, Ivan Nagy, Natálie Blahitka Pavla Pecherková Evženie Uglickich (Gar.)	Z,ZK	4	2P+2C+12B	Z	Z
21BILD	Safety Engineering in Aviation Natalia Guskova, Kate ina Grötschelová  Kate ina Grötschelová	Z,ZK	4	2P+2C+12B	Z	Z
21CNSS	CNS Systems Stanislav Pleninger Stanislav Pleninger	Z,ZK	5	3P+2C+16B	Z	Z
21LETS	Airport Petr Líka , Jakub Kraus, Sébastien Lán, Petr Had, Ji í Volt, Slobodan Stoji Slobodan Stoji	Z,ZK	4	1P+2C+12B	Z	Z
21PEKL	Principles and Models in Air Transport Economics Peter Vittek Peter Vittek	Z,ZK	5	4P+2C+16B	Z	Z
15J2A1	Language - English 1 Jitka He manová, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerová Lenka Monková (Gar.)	Z	2	0P+2C+10B	Z	Z

### Characteristics of the courses of this group of Study Plan: Code=1S-NP-PL-22/23 Name=1st Sem. Master Full-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. Mathematical Models and their Applications Z,ZK 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 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 Course provides full technical informations about CNS (communication, navigation, surveilance) systems used in aviation. Systems are presented in perspective of future development. 21LETS Airport 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.

Principles and Models in Air Transport Economics The course contains the most important and typical models on which the economics of air transport is based. It covers the principles of regulation, airline infrastructure models, market 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 and the economic principles of safety and security. 15J2A1 Language - English 1 Presentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement

Code of the group: 2S-NP-PL-22/23

Name of the group: 2nd Sem. Master Full-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	Z,ZK	5	3P+2C+16B	L	Z
21MULD	Managerial Challenges in Air Transport Peter Vittek	Z,ZK	5	3P+2C+14B	L	Z
21PLET	Airport Operations Slobodan Stoji	Z,ZK	5	2P+2C+12B	L	Z
21SPOL	Aircraft Technology Reliability	Z,ZK	4	2P+1C+12B	L	Z
21PAM1	Programming and Modelling 1 Vladimír Socha	KZ	5	2P+4C+16B	L	Z
15JBA2	Language - English 2 Lenka Monková (Gar.)	Z	2	0P+2C+10B	L	Z

Characteristics o	f the courses of this group of Study Plan: Code=2S-NP-PL-22/23 Name=2nd Sem. Master Fi	ull-Time PL ti	rom 2022/23
21AFM	Air Traffic Management	Z,ZK	5
Current ATM system a	nd its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Data	a exchange with n	eighboring ATM
systems. Monitoring sy	stems and technical supervision. ATM simulation. ATM conceptions and strategies for next years. EUROCONTROL - CFMU. FA	B. ATS's - AOC's o	lata 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, 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 r	nodelling 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 i	n the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and	they are practical	illustration of its
security in The Czech	Police Aviation Department.		
21PAM1	Programming and Modelling 1	KZ	5
Harmonic signals, thei	generation. Real signals, sampling theorem, aliasing. Signal filtering. Fourier transform (FT), discrete Fourier transform (DFT	), fast Fourier tran	nsform (FFT).
Spectrum estimation, s	spectral power density. Image - basic processing methods, 2D Fourier transform, noise filtering, edge detection, linear and no	n-linear methods,	brightness
transforms, geometric	transforms, image compression.		
15JBA2	Language - English 2	Z	2

Code of the group: 3S-NP-PL-23/24

Name of the group: 3rd Sem. Bachelor Full-Time PL from 2023/24

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 7 courses

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

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
11MMOA	Mathematical methods for data analysis Evženie Uglickich, Pavla Pecherková Pavla Pecherková Evženie Uglickich (Gar.)	Z,ZK	4	2P+2C+12B	Z	Z
21NSR	Navigation and Flight Control Systems  Jakub Hospodka, Jakub Trýb Jakub Hospodka	Z,ZK	5	3P+2C+14B	Z	Z
21PLDC	Air Carrier Operations Miloš Strouhal Miloš Strouhal	Z,ZK	5	3P+2C+16B	Z	Z

21PAM2	Programming and Modelling 2 Vladimír Socha, Lenka Hanáková Vladimír Socha	KZ	5	2P+4C+16B	Z	Z
21LIA1	Aviation Engineering English 1  Jitka He manová, Dana Boušová <b>Jitka He manová</b>	Z	3	0P+2C+8B	Z	Z
21XNL1	Thesis seminar 1 Vladimír Socha, Lenka Hanáková <b>Vladimír Socha</b>	Z	2	0P+1C+4B	Z	Z
15JBA3	Language - English 3  Jitka He manová, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta  Musilová, Jan Feit, Eva Rezlerová, Marek Tome ek Lenka Monková (Gar.)	Z	2	0P+2C+10B	Z	Z

Characteristics of the courses of t	his group of Study Plan: Code=3S-NP-PL-23/24 Name=3rd Sem. Bachel	or Full-Time PL	from 2023/2
11MMOA Mathematical me	ethods for data analysis	Z,ZK	4
Stocastic modelling, estimation, prediction, filt	ration, control, methods of data analysis - k-means, DBSCAN, naive Bayes, decision trees, suppo	rt vector machine.	
21NSR Navigation and F	Flight Control Systems	Z,ZK	5
Navigation. Radionavigation. Satellite navigation	on. Flight management system. Autopilot. FMC. Practical execution of flight.		•
21PLDC Air Carrier Opera	ations	Z,ZK	5
	elation. Airlines - structure, strategy. Performances in air transport. Cost structure. Fuel managementation. Ground handling and other services. Safety / Security / Quality and Compliance monitoring.	•	
21PAM2 Programming an	nd Modelling 2	KZ	5
nearest neighbour method. SVM classifiers. D		7	1 2
21LIA1   Aviation Enginee	ering English 1	Z	3
<i>,</i> . • • •	e exercises and are focused on the following topics - EUR-Lex and European Legislation, ICAO Ar		AMCs and GMs,
Civil Aviation Authorities, Accident investigatio	on, Aircraft Airworthiness, Aircraft documentations and manuals, Medical certification, Emergency	response plan.	,
21XNL1   Thesis seminar		Z	2
	ns devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time	•	• .
J. J. J.	paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with texture to the control of the con	xt, digital notes, worki	ng with notes,
outline. Rhetorical exercises / presentation ski	ills.		
15JBA3   Language - Engl	lich 3	<i>7</i>	2
	11311 0	· –	. –
Presentation Skills - expert technical discourse FCE, CAE.	e and style; Analysis of expert texts and their production; Preparation for overseas work engagement	ent.Optional courses	for certificates

Code of the group: 4S-NP-PL-23/24

Name of the group: 4th Sem. Bachelor Full-Time PL from 2023/24

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 9 courses

Credits in the group: 24

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
21ELEG	European Aviation Legislation	ZK	3	2P+0C+8B	L L	Z
21KST	Space Technology Jakub Hospodka	ZK	3	2P+0C+10B	L	Z
21LPZP	Air Traffic and the Environment	ZK	3	3P+0C+8B	L	Z
21SYMS	System Thinking Jakub Kraus	ZK	3	2P+0C+8B	L	Z
14PROM	Process Modeling	KZ	2	2P+0C+8B	L	Z
21LIA2	Aviation Engineering English 2	KZ	3	0P+2C+8B	L L	Z
21NTLE	New Trends in Aviation Technologies Peter Vittek	KZ	3	3P+0C+8B	L	Z
21XNL2	Thesis Seminar 2 Vladimír Socha	Z	2	0P+2C+6B	L	Z
15JBA4	Language - English 4  Jitka He manová, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerová, Lenka Monková, Dana Boušová,  Lenka Monková (Gar.)	ZK	2	0P+2C+10B	L	Z

## Characteristics of the courses of this group of Study Plan: Code=4S-NP-PL-23/24 Name=4th Sem. Bachelor Full-Time PL from 2023/24

21ELEG	European Aviation Legislation	∠K	3					
The content of the subject "European Aviation Legislation" is the legal regulation of air operation, the system and structure of the national and European legal system, the legal effects								
of EU legal acts in the Czech national environment and their impact on national regulation with a focus on requirements and criteria of individual regulations on aviation transport and								
transportation.	transportation.							
21KST	Space Technology	ZK	3					
Universe and its basic characteristics. Fundamentals of astrophysics. Kepler's laws. Solar system. Earth's and its atmosphere and outer space. Space transport vehicles. Rockets and								
Offiverse and its basic o	naracteristics. Fundamentals of astrophysics. Repier's laws. Solar system. Earth's and its atmosphere and outer space. Space	se transport verilo	ies. Nockets and					
	structure and operational characteristics. Space crafts and satellites, space flight. Orbital mechanics. Application of space to	•						

21LPZP	Air Traffic and the Environment	ZK	3
The course is about	ecology, sustainable development, ecological stability, environmental protection and environmental legislation. It also focuses o	n air traffic with re	spect to the
environment, curren	issues, threats and solutions.		
21SYMS	System Thinking	ZK	3
System, its structure	, algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal setting,	uncertainties and	arguments,
decision making und	er uncertainty.		
14PROM	Process Modeling	KZ	2
Definition of the prod	ess, role, KPI's, areas of interest. Process Map, definition, purpose, clear examples and demonstrations, recommendations and	standards, SIPOC	Process model,
definition, purpose,	procedures and tools, static and dynamic models. BPMN language, syntax and semantics, process flows. Implementation of pra	actical examples, A	s-Is, To-Be,
optimization and eva	luation.		
21LIA2	Aviation Engineering English 2	KZ	3
Lectures include var	ious types of the language exercises and are focused on the following topics - Aviation associations, ISAGO and IGOM, EURO	CONTROL, Airpor	t Council
International, Interna	tional Air Transport Association, Airport Engineering, Airline business, Future development in civil aviation.		
21NTLE	New Trends in Aviation Technologies	KZ	3
The course includes	an introduction to all the technologies that are currently important to aviation, such as new aircraft design concepts, new types	of propulsion, and	new types of
aviation fuels. The co	ourse also covers new types of urban mobility, virtual reality systems, biomechanical analysis. ATM technologies are another con	nponent, and the c	ourse also looks
at smart airports, the	e use of blockchain, and airport simulations.		
21XNL2	Thesis Seminar 2	Z	2
Selected chapters fr	om the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation o	of results. Graphic	design of the
work, own and adop	ed graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetc	rical exercises / pr	esentation skills.
Specifics of state ex	ams.		
15JBA4	Language - English 4	ZK	2
Presentation Skills -	expert technical discourse and style: Analysis of expert texts and their production; Preparation for overseas work engagement.	Ontional courses f	or certificates

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  Jana Kuklová	Z	2	0P+2C+4B	Z	ZP
12XN1	Master Project 1 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+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, Stanislav Pleninger, Jakub Kraus, Slobodan Stoji , Peter Vittek, Jakub Hospodka, Jakub Trýb, 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  Jana Kuklová	Z	2	0P+2C+8B	L	ZP
12XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
14XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
15XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
16XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP

17XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
18XN2	Master Project 2		2	0P+2C+8B	 L	ZP
20XN2	Daniel Kytý	7	2	0P+2C+8B		7P
	Master Project 2	Z	<b>↓</b> –	0F+2C+8B		
21XN2	Master Project 2		2		L	ZP
22XN2	Master Project 2	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  Michal Matowicki, Pavla Pecherková, Ivan Nagy, Bohumil Ková, Jana Kuklová, Ond ej Pibyl, Jan Pikryl Jana Kuklová 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 Nela Kr má ová	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, Stanislav Pleninger, Jakub Kraus, Slobodan Stoji, Peter Vittek, Jakub Hospodka, Vladimír Socha, Lenka Hanáková,	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 Pavla Pecherková, Bohumil Ková, Jana Kuklová, Jan Pikryl Jana Kuklová Pavla Pecherková (Gar.)	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	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	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	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
23XN4L	Master Project 4	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-NP-PL-24/25

Name of the group: Comp. Sel. Courses Master Full-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:

Note on the (	group.					
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
00Y2XN	Active participation in a scientific project, workshop, short-term trip abroad Patrik Horaž ovský Patrik Horaž ovský (Gar.)	KZ	2	2P+0C		PV
21Y2BS	Unmanned aircraft systems 2 Jakub Kraus Jakub Kraus (Gar.)	KZ	2	2P+0C+8B	Z	PV
21Y2CR	CRM	KZ	2	2P+0C+8B	L	PV
21Y2FM	Aviation Company Financial Management Radoslav Zozu ák	KZ	2	2P+0C+8B	Z	PV
21Y2MQ	Quality Management	KZ	2	2P+0C+8B	L	PV
21Y2MK	Marketing of Air Transport Peter Vittek Peter Vittek Peter Vittek (Gar.)	KZ	2	2P+0C+8B	Z	PV
22Y2MN	Methods and Procedures of Aircraft Accident Investigation	KZ	2	2P+0C	L	PV
21Y2MC	CNS Systems Modelling Stanislav Pleninger Stanislav Pleninger (Gar.)	KZ	2	2P+0C+8B	Z	PV
21Y2MG	Military Aerospace Technologies: Applications and Global Dynamics Sarah Van Den Bergh Sarah Van Den Bergh (Gar.)	KZ	2	2P+0C	Z	PV
21Y2PP	Law and Operation in Air Transport	KZ	2	2P+0C+8B	L	PV
21Y2UL	Aircraft Maintenance	KZ	2	2P+0C+8B	L	PV
14Y2UI	Artificial Intelligence	KZ	2	2P+0C+8B	Z,L	PV
15Y2ZA	Basic Principles of English Academic Writing and Abstract in English  Dana Boušová Dana Boušová (Gar.)	KZ	2	2P+0C	Z	PV

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

00Y2XN	Active participation in a scientific project, workshop, short-term trip abroad	KZ	2
21Y2BS	Unmanned aircraft systems 2	KZ	2
Modern trends in unma	nned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flight	s beyond the appli	cable legislation.

21Y2CR	CRM	KZ	2
Introduction to CRM. A	nalysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the h	uman body. Fatigu	e Sleep &
Vigilance. Information F	Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership & Team Beha	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	n, retained
earnings, shares, bond	s, loans, leasing, capital. Financial and economic analysis of the company - structure and content.		
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	igement system. E	nvironmental
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	ccellence 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	for analysis, strate	gy 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 marl	et, 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 inv	estigations in
the Czech Republic and	d abroad and analysis of published final reports. Examples of the preparation of the final report of an air accident investigation	n.	
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	ematical approach	es and software
tools. A large part is de	voted to air targets tracking, measurement-to-track association, track filtering and multisensor tracking.		
21Y2MG	Military Aerospace Technologies: Applications and Global Dynamics	KZ	2
21Y2PP	Law and Operation in Air Transport	KZ	2
Development of aviation	n law. International conventions on civil aviation. International organisations and including of the Czech Republic in these organisations	anisations. EU legi	slation and civil
aviation. Execution of s	ate administration and state supervision in matters of civil aviation, in accordance with Act No. 49/1997 Col. Facilitation. Res	ponsibilities of air o	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), technical	documentation
and additional ICA (Inst	ructions for Continued Airworthiness) instructions, aircraft release to service procedure, maintenance programmes and sche	duling, modificatio	ns 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	g.	
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	feedback.	
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Name of the block: Elective courses Minimal number of credits of the block: 0

The role of the block: V

Code of the group: VP-NP-PL

Name of the group: Master Full-Time PL voluntary

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

Credits in the group: 0

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

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

Characteristics of	the courses of this group of Study Flant. Code=VF-NF-FE Name=Master Full-Time FE volu	iitai y	
15JCZ1	Czech Language for Foreign Students 1	Z	0
Basic structures of Cze	ch language, common communication situations, study, work, leisure time activities, introduction of myself, phonetics of Czec	h language, writii	ng skills.
15JCZ2	Czech Language for Foreign Students 2	Z	0
Basic structures of Cze	ch language, common communication situations, study, work, leisure time activities, introduction of myself, phonetics of Czec	h language, writii	ng skills.
15JCZ3	Czech Language for Foreign Students 3	Z	
Language structures w	th regard to the group level. Listening and oral fluency drill. Basic terminology.	'	•
15JCZ4	Czech Language for Foreign Students 4	Z	
Language structures w	th regard to the group level. Listening and oral fluency drill. Basic terminology.	'	•

## List of courses of this pass:

Descriptive statistics, data preprocessing, discretize continuous data. Hypothesis better; continuous and discretize variables. Regression and correlation analysis. Brock analysis progression analysis, logistic regression analysis. ROC curve, MADOVA, PCA, Factor analysis. Power analysis, properation, processing and evaluation of the experimental processing and analysis. Power analysis, properation, processing and evaluation of the experimental processing and service and logistic models. State official inclinations of normal regression, discrete and logistic models. State official inclinations of normal regression, discrete and logistic models. State official inclinations of normal regression, discrete and logistic models. State official inclinations of normal regression, discrete and logistic models. State official inclinations of normal regression, discrete and logistic models. State official inclinations of normal regression, discrete and logistic models. State official inclinations of normal regression, discrete and logistic models. State official inclinations of normal regression, discrete and logistic models. State official inclinations. State of normal regression, discrete and logistic models. State official inclinations. State of normal regression, discrete and logistic models. State official inclinations. State 11 (1972) 11 (1	11APAS Applied Descriptive statistics, data preprocessing, discretize continuous data. Hypothesis test - multiple regression analysis, logistic regression analysis, ROC curve, MANOVA, F  11MMJ Mathematical Models System. Regression, discrete and logistic models. Bayesian estimation of model pal with logistic model. One-step and multi-step prediction with regression and discrete in 11MMOA Mathematical method Stocastic modelling, estimation, prediction, filtration, control, methods of data and the stocastic modelling, estimation, prediction, filtration, control, methods of data and the stocastic modelling, estimation, prediction, filtration, control, methods of data and the stocastic modelling, estimation, prediction, filtration, control, methods of data and the stocastic modelling, estimation, prediction, filtration, control, methods of data and the stocastic modelling, estimation, prediction, filtration, control, methods of data and the stocastic modelling, estimation, prediction, filtration, control, methods of data and the stocastic modelling, estimation, prediction, filtration, control, methods of data and the stocastic modelling, estimation, prediction, filtration, control, methods of data and the stocastic model and data	Statistics ing - continuous and discrete variables. Regression and correlation a PCA, Factor analysis. Power analysis, preparation, processing and e s and their Applications rameters. Parameter estimation of normal regression, discrete and i models. State model. State estimation. Kalman filter. Control with re- ods for data analysis ata analysis - k-means, DBSCAN, naive Bayes, decision trees, supported to Project 1  Project 2  study programme PL  study programme PL  Project 1  Project 2  study programme PL  study program	Z,ZK analysis. Multivariate evaluation of hte ex Z,ZK logistic models. Clar gression and discretion of the execution of the e	periment.  4 assification ete models.  4 as.  2 2 2 2 2 2 2 2 cess model, ls, To-Be,
Descriptive statistics, data preprocessing, discretize confinuous data Hyporhesis testing, continuous and discrete variables. Regression and correlation fraints are multiple regression analysis, (Section analysis), solid regression analysis, and content and content and solid regression analysis. Proceedings of the procession analysis of the process	Descriptive statistics, data preprocessing, discretize continuous data. Hypothesis testing in multiple regression analysis, logistic regression analysis, ROC curve, MANOVA, For multiple regression analysis, logistic regression analysis, ROC curve, MANOVA, For multiple systems and subject of mu	ing - continuous and discrete variables. Regression and correlation and PCA, Factor analysis. Power analysis, preparation, processing and examples and their Applications and their Applications ameters. Parameter estimation of normal regression, discrete and incodels. State model. State estimation. Kalman filter. Control with remodels for data analysis ata analysis - k-means, DBSCAN, naive Bayes, decision trees, support of the project 1  Project 2  study programme PL  study programme PL  Project 1  Project 2  study programme PL  study progra	analysis. Multivariable valuation of hte ex Z,ZK logistic models. Clargression and discrete Z,ZK continued by the continued b	ole methods speriment.  4 assification ete models.  4 e.  2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
multiple regression analysis, logistic regression analysis. Royal consists in the Applications  11MMJ   Mathematical Models and their Applications  2,ZK   System, Regression, discrete and logistic models. Bayesian estimation of model parameters. Parameter estimation of normal regression, discrete and logistic models. Classification of normal regression, discrete and logistic models. Classification of normal regression, discrete and logistic models. Sales models. State conditions. State settlements. Classification of the procession and discrete models. State models. State ondersion. State settlements. Amain filtro. Control without of data analysis in center. State of the state of the state of the state of the state analysis in center. State of the state of the state analysis in center. State of the st	- multiple regression analysis, logistic regression analysis, ROC curve, MANOVA, F  11MMJ	PCA, Factor analysis. Power analysis, preparation, processing and estand their Applications rameters. Parameter estimation of normal regression, discrete and models. State model. State estimation. Kalman filter. Control with remodes for data analysis ata analysis - k-means, DBSCAN, naive Bayes, decision trees, support 1  Project 1  Project 2  study programme PL  study programme PL  Project 1  Project 2  study programme PL	evaluation of hte ex Z,ZK logistic models. Clar gression and discrete Z,ZK cort vector machine Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	periment.  4 assification ete models.  4 as.  2 2 2 2 2 2 2 2 cess model, ls, To-Be,
11MMJ   Matter project   2   2   2   2   3   3   3   3   3   3	11MMJ   Mathematical Models System. Regression, discrete and logistic models. Bayesian estimation of model par with logistic model. One-step and multi-step prediction with regression and discrete in  11MMOA   Mathematical methods of day Stocastic modelling, estimation, prediction, filtration, control, methods of day 11XN1   Master 11XN2   Master 11XN2   Master Project 3 for 11XN4L   Master Project 4 for 12XN1   Master 12XN2   Master 12XN2   Master 12XN2   Master 12XN3L   Master Project 3 for 12XN4L   Master Project 4 for 12XN4L   Master Project 4 for 12XN4L   Master Project 4 for 14PROM   Process Definition of the process, role, KPI's, areas of interest. Process Map, definition, purpose definition, purpose, procedures and tools, static and dynamic models. BPMN language optimizer	s and their Applications rameters. Parameter estimation of normal regression, discrete and I models. State model. State estimation. Kalman filter. Control with re- ods for data analysis ata analysis - k-means, DBSCAN, naive Bayes, decision trees, supported to the project 1 Project 2 study programme PL study programme PL Project 1 Project 2 study programme PL study program	Z,ZK logistic models. Cla gression and discre Z,ZK cort vector machine Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	4 assification ete models.  4 e.  2 2 2 2 2 2 2 cess model, ls, To-Be,
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optimization and evaluation.  14XN1	optimiza	Project 1 Project 2	Z	
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Presentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.  15JBA2				
Language - English 2		•		2
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18XN3L	Master Project 3 for study programme PL	Z	2
18XN4L	Master Project 4 for study programme PL	Z	2
20XN1 20XN2	Master Project 1	Z	2
	Master Project 2	Z	2
20XN3L	Master Project 3 for study programme PL	Z	2
20XN4L	Master Project 4 for study programme PL	Z 7.714	2
21AFM	Air Traffic Management and its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Data ex	Z,ZK	5
•	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
I	d on understanding the issue of safety, learning how to assess new systems in terms of safety and acquiring principles of safety materials explaining accidents and incident causes and bridge their theoretical knowledge with practical problems of air transport.	,	
21CNSS	CNS Systems	Z,ZK	5
· ·	echnical informations about CNS (communication, navigation, surveilance) systems used in aviation. Systems are presented in pers	'	evelopmer
21ELEG	European Aviation Legislation	ZK	3
he content of the su	bject "European Aviation Legislation" is the legal regulation of air operation, the system and structure of the national and European	legal system, the	legal effec
of EU legal acts in the	e Czech national environment and their impact on national regulation with a focus on requirements and criteria of individual regular	tions on aviation tr	ansport ar
	transportation.	I	1
21KST	Space Technology	ZK	3
	c characteristics. Fundamentals of astrophysics. Kepler's laws. Solar system. Earth's and its atmosphere and outer space. Space to	-	
rocket engines and t	heir structure and operational characteristics. Space crafts and satellites, space flight. Orbital mechanics. Application of space tech	nologies for globa	I navigatio
041.570	and communication. Space exploration and piloted space flights and missions.	7.71	1 .
21LETS	Airport  Paralle and developing within and Countries of the sign o	Z,ZK	4
•	ig new airports and developing existing ones. Connection of the airport to the surrounding infrastructure. Airport economics. Detailst Certification of airside movement areas and procedures according to EASA CS-ADR-DSN. Development planning - design, prepai		•
movement areas.	Environmental aspects of airport operations.	ation and regulation	ory basis.
21LIA1	Aviation Engineering English 1	Z	3
I .	ious types of the language exercises and are focused on the following topics - EUR-Lex and European Legislation, ICAO Annexes	_	1 -
	tion Authorities, Accident investigation, Aircraft Airworthiness, Aircraft documentations and manuals, Medical certification, Emerger		
21LIA2	Aviation Engineering English 2	KZ	3
	various types of the language exercises and are focused on the following topics - Aviation associations, ISAGO and IGOM, EURO		
	International, International Air Transport Association, Airport Engineering, Airline business, Future development in civil aviati		
21LPZP	Air Traffic and the Environment	ZK	3
	It ecology, sustainable development, ecological stability, environmental protection and environmental legislation. It also focuses on		_
	environment, current issues, threats and solutions.		
21MULD	Managerial Challenges in Air Transport	Z,ZK	5
The course contain	s a list of basic managerial tasks in aviation. The basic managerial tasks are quality assurance and operational safety, marketing o	perations, marketi	ng context
implementation, air	line network management, fleet management and revenue management. The core disciplines also include project management, co	ost management a	and project
	resource planning and management.		
21NSR	Navigation and Flight Control Systems	Z,ZK	5
041171.5	Navigation. Radionavigation. Satellite navigation. Flight management system. Autopilot. FMC. Practical execution of flight.		
21NTLE	New Trends in Aviation Technologies	KZ	3
	s an introduction to all the technologies that are currently important to aviation, such as new aircraft design concepts, new types of		
viation fuels. The co	urse also covers new types of urban mobility, virtual reality systems, biomechanical analysis. ATM technologies are another compor at smart airports, the use of blockchain, and airport simulations.	ient, and the cours	se also loo
21PAM1		KZ	5
	Programming and Modelling 1 heir generation. Real signals, sampling theorem, aliasing. Signal filtering. Fourier transform (FT), discrete Fourier transform (DFT),		1
<del>-</del>	on, spectral power density. Image - basic processing methods, 2D Fourier transform, noise filtering, edge detection, linear and non		
opoolium oolimati	transforms, geometric transforms, image compression.	iiiloai iiloalloao, b	rigitatiooo
21PAM2	Programming and Modelling 2	KZ	5
	tics, classical statistical analysis. Statistical hypothesis testing. Analysis of variance (ANOVA), one-factor, two-factor ANOVA. Non-p		1
•	ion, correlation coefficient. Non-linear regression models, procedure for regression analysis of a non-linear model. Basics of machi		
3	nearest neighbour method. SVM classifiers. Decision trees.	<b>3</b>	
21PEKL	Principles and Models in Air Transport Economics	Z,ZK	5
	the most important and typical models on which the economics of air transport is based. It covers the principles of regulation, airline		dels, mark
	rline costs, and looks in detail at the low-cost and charter airline model. It also focuses on airline alliances, air cargo, airline strategie		
	of safety and security.		
21PLDC	Air Carrier Operations	Z,ZK	5
	ortance of air transport. Legislation. Airlines - structure, strategy. Performances in air transport. Cost structure. Fuel management. C		tenance
(organization) and e	conomics of aircraft operation. Ground handling and other services. Safety / Security / Quality and Compliance monitoring. Revenue	ie management. A	ir transpoi
	and environment.		1
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 capacit	-	ind 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
=	ion of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and wor		-
Seneral legalities are	e in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and the	y are practical illus	tration of i
	security in The Czech Police Aviation Department.		

21SYMS	System Thinking	ZK	3
	ture, algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal setting, ur		_
Cyclom, no cardo	decision making under uncertainty.		· gairrorito,
21XN1	Master Project 1	Z	2
21XN2	Master Project 2	Z	2
21XN3L	Master Project 3 for study programme PL	<u></u> Z	2
21XN4L	Master Project 4 for study programme PL	<u>Z</u>	2
21XNL1	Thesis seminar 1	<u>Z</u>	2
	tries is serminal. In the second of the seco		_
	tical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digit outline. Rhetorical exercises / presentation skills.	_	
21XNL2	Thesis Seminar 2	Z	2
Selected chapters	s from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of r	esults. Graphic de	sign of the
work, own and ador	oted graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetorical	exercises / prese	ntation skills.
	Specifics of state exams.		
21Y2BS	Unmanned aircraft systems 2	KZ	2
Modern trends in ur	nmanned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights bey	ond the applicabl	e legislation.
21Y2CR	CRM	KZ	2
Introduction to CRI	M. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the human	n body. Fatigue S	Sleep &
Vigilance. I	nformation Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership & Decision Baking. Communication. Leadership & Decision Baking. Communication. Leadership & Decision Baking. Communication.	ehaviour. Automa	tion.
21Y2FM	Aviation Company Financial Management	KZ	2
Theories of corp	orate finance - financial statements, budget, forecast. Financial policy of the company. Financial resources - long-term financial resou	rces, depreciatior	, retained
	earnings, shares, bonds, loans, leasing, capital. Financial and economic analysis of the company - structure and content.		
21Y2MC	CNS Systems Modelling	KZ	2
The course is design	ned as a set of model tasks in the field of communication navigation and surveillance systems in aviation, addressed using mathematic	tical approaches	and software
	tools. A large part is devoted to air targets tracking, measurement-to-track association, track filtering and multisensor tracking	g.	
21Y2MG	Military Aerospace Technologies: Applications and Global Dynamics	KZ	2
21Y2MK	Marketing of Air Transport	KZ	2
The content of the	course "Marketing in air transport" is the management of activities and processes using available marketing tools and processes for a	nalysis, strategy	development
	course "Marketing in air transport" is the management of activities and processes using available marketing tools and processes for a n of sales of goods and services in the aviation industry. In addition to the theoretical foundations of marketing, the lectures present s		-
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	n of sales of goods and services in the aviation industry. In addition to the theoretical foundations of marketing, the lectures present sy		-
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