Study plan

Name of study plan: Master Part-Time PL from 2023/24

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: 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-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:

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, Kateřina Grötschelová Kateřina 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 Líkař, Jakub Kraus, Sébastien Lán, Petr Had, Jiří Volt, Slobodan Stojić Slobodan Stojić	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 Heřmanová, 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-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. 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 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.

21PEKL 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-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 Jakub Kraus Jakub Kraus (Gar.)	Z,ZK	5	3P+2C+16E	B L	Z
21MULD	Managerial Challenges in Air Transport Peter Vittek Peter Vittek (Gar.)	Z,ZK	5	3P+2C+14E	B L	Z
21PLET	Airport Operations Sébastien Lán, Petr Had, Jiří Volt Slobodan Stojić Slobodan Stojić (Gar.)	Z,ZK	5	2P+2C+12E	B L	Z
21SPOL	Aircraft Technology Reliability Natalia Guskova, Kateřina Grötschelová, Oldřich Štumbauer, Kiyofolo Benjamin Ouattara Andrej Lališ (Gar.)	Z,ZK	4	2P+1C+12E	B L	Z
21PAM1	Programming and Modelling 1 Vladimír Socha, Lenka Hanáková Vladimír Socha Vladimír Socha (Gar.)	KZ	5	2P+4C+16E	L L	Z
15JBA2	Language - English 2 Jitka Heřmanová, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerová, Barbora Horáčková, Marek Tomeček Lenka Monková (Gar.)	Z	2	0P+2C+10E	ß 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 syste	n and its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Data	exchange with ne	ighboring ATM
systems. Monitorin	g systems and technical supervision. ATM simulation. ATM conceptions and strategies for next years. EUROCONTROL - CFMU. FAE	3. ATS's - AOC's da	ta applications
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	operations, market	ing context
implementation, air	line network management, fleet management and revenue management. The core disciplines also include project management, o	cost management	and project
resource planning	and management.		
21PLET	Airport Operations	Z,ZK	5
Planning, design a	nd modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capa	acity. Available tool	s and practice:
for increasing capa	city. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport masterplan.		
21SPOL	Aircraft Technology Reliability	Z,ZK	4
Subject deals with t	uition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and v	working of aerospa	ce engineering
General legalities a	re in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and t	hey are practical il	ustration of its
	re in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and t ch Police Aviation Department.	hey are practical il	ustration of its
	·	hey are practical ill	ustration of its
security in The Cze	ch Police Aviation Department.	KZ	5
security in The Cze 21PAM1 Harmonic signals,	ch Police Aviation Department. Programming and Modelling 1	KZ), fast Fourier trans	5 form (FFT).
security in The Cze 21PAM1 Harmonic signals, Spectrum estimatic	ch Police Aviation Department. Programming and Modelling 1 heir generation. Real signals, sampling theorem, aliasing. Signal filtering. Fourier transform (FT), discrete Fourier transform (DFT)	KZ), fast Fourier trans	5 form (FFT).
security in The Cze 21PAM1 Harmonic signals, Spectrum estimatic	ch Police Aviation Department. Programming and Modelling 1 heir generation. Real signals, sampling theorem, aliasing. Signal filtering. Fourier transform (FT), discrete Fourier transform (DFT) n, spectral power density. Image - basic processing methods, 2D Fourier transform, noise filtering, edge detection, linear and non	KZ), fast Fourier trans	5 form (FFT).

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

Name of the group: 3rd Sem. Bachelor Part-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

Credits in the group: 26

Note on the group.

Code	Name of the course / Name of the group of courses	0	0 !!!			
	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 Heřmanová, Dana Boušová Jitka Heřmanová	Z	3	0P+2C+8B	Z	Z
21XNL1	Thesis seminar 1 Vladimír Socha, Lenka Hanáková Vladimír Socha	Z	2	0P+1C+4B	Z	Z
15JBA3	Language - English 3 Jitka Heřmanová, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerová, Marek Tomeček Lenka Monková (Gar.)	Z	2	0P+2C+10B	Z	Z

11MMOA	Mathematical methods for data analysis	Z,ZK	4
Stocastic modelling	, estimation, prediction, filtration, control, methods of data analysis - k-means, DBSCAN, naive Bayes, decision trees, support ve	ctor machine.	
21NSR	Navigation and Flight Control Systems	Z,ZK	5
Navigation. Radion	avigation. Satellite navigation. Flight management system. Autopilot. FMC. Practical execution of flight.		
21PLDC	Air Carrier Operations	Z,ZK	5
•	ance of air transport. Legislation. Airlines - structure, strategy. Performances in air transport. Cost structure. Fuel management. C economics of aircraft operation. Ground handling and other services. Safety / Security / Quality and Compliance monitoring. Reve	-	
21PAM2	Programming and Modelling 2	KZ	5
regression. Correla	s, classical statistical analysis. Statistical hypothesis testing. Analysis of variance (ANOVA), one-factor, two-factor ANOVA. Non-ption, correlation coefficient. Non-linear regression models, procedure for regression analysis of a non-linear model. Basics of macenthod. SVM classifiers. Decision trees.		
21LIA1	Aviation Engineering English 1	Z	3
	rious types of the language exercises and are focused on the following topics - EUR-Lex and European Legislation, ICAO Annex rities, Accident investigation, Aircraft Airworthiness, Aircraft documentations and manuals, Medical certification, Emergency resp		MCs and GMs
21XNL1	Thesis seminar 1	Z	2
Introduction, scient	ific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time ma	anagement. Forma	al and graphic
design, mathematic	al typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, di	gital notes, workin	ng with notes,
outline. Rhetorical e	exercises / presentation skills.		
15JBA3	Language - English 3	Z	2
			or certificates

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

Name of the group: 4th Sem. Bachelor Part-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 Radoslav Zozuľák Peter Vittek (Gar.)	ZK	3	2P+0C+8E	B L	Z
21KST	Space Technology Jakub Hospodka, Jakub Trýb Jakub Hospodka Jakub Hospodka (Gar.)	ZK	3	2P+0C+10E	B L	Z
21LPZP	Air Traffic and the Environment Peter Vittek Luděk Beňo (Gar.)	ZK	3	3P+0C+8E	B L	Z
21SYMS	System Thinking Jakub Kraus Jakub Kraus (Gar.)	ZK	3	2P+0C+8E	L L	Z
14PROM	Process Modeling Marek Kalika Marek Kalika (Gar.)	KZ	2	2P+0C+8E	L	Z
21LIA2	Aviation Engineering English 2 Jitka Heřmanová, Dana Boušová	KZ	3	0P+2C+8E	L L	Z
21NTLE	New Trends in Aviation Technologies Peter Vittek Peter Vittek Peter Vittek (Gar.)	KZ	3	3P+0C+8E	B L	Z
21XNL2	Thesis Seminar 2 Andrej Lališ, Vladimír Socha, Lenka Hanáková, Marta Urbanová Vladimír Socha Vladimír Socha (Gar.)	Z	2	0P+2C+6E	B L	z
15JBA4	Language - English 4 Jitka Heřmanová, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerová, Lenka Monková, Dana Boušová, Lenka Monková (Gar.)	ZK	2	0P+2C+10E	B L	Z

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

21ELEG	European Aviation Legislation	ZK	3
The content of the s	subject "European Aviation Legislation" is the legal regulation of air operation, the system and structure of the national and Euro	pean legal system,	the legal effect
of EU legal acts in t	the Czech national environment and their impact on national regulation with a focus on requirements and criteria of individual re	egulations on aviation	on transport an
ransportation.			
21KST	Space Technology	ZK	3
Jniverse and its bas	sic characteristics. Fundamentals of astrophysics. Kepler's laws. Solar system. Earth's and its atmosphere and outer space. Sp	ace transport vehic	les. Rockets ar
ocket engines and	their structure and operational characteristics. Space crafts and satellites, space flight. Orbital mechanics. Application of space	technologies for glo	obal navigation
and communication	n. Space exploration and piloted space flights and missions.		
21LPZP	Air Traffic and the Environment	ZK	3
he course is about	t ec ^o logy, sustainable development, ecological stability, environmental protection and environmental legislation. It also focuses	on air traffic with re	spect to the
nvironment, curren	nt issues, threats and solutions.		
21SYMS	System Thinking	ZK	3
	e, algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal setting	uncertainties and	arguments.
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decision making und		KZ	2
decision making und	der uncertainty. Process Modeling	KZ	2
decision making und I 4PROM Definition of the prod	der uncertainty.	KZ d standards, SIPOC	2 . Process mode
decision making und 14PROM Definition of the production, purpose,	der uncertainty. Process Modeling cess, role, KPI's, areas of interest. Process Map, definition, purpose, clear examples and demonstrations, recommendations and procedures and tools, static and dynamic models. BPMN language, syntax and semantics, process flows. Implementation of procedures and tools, static and dynamic models.	KZ d standards, SIPOC	2 . Process mode
decision making und 14PROM Definition of the prodefinition, purpose, optimization and evi	der uncertainty. Process Modeling cess, role, KPI's, areas of interest. Process Map, definition, purpose, clear examples and demonstrations, recommendations and procedures and tools, static and dynamic models. BPMN language, syntax and semantics, process flows. Implementation of praluation.	KZ d standards, SIPOC	2 . Process mode
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lecision making und 14PROM Definition of the production, purpose, potimization and evaluation an	der uncertainty. Process Modeling	KZ d standards, SIPOC ractical examples, A	2 . Process mode as-Is, To-Be,
ecision making und 4PROM Definition of the production, purpose, inptimization and evident	der uncertainty. Process Modeling	KZ d standards, SIPOC ractical examples, A	2 Process mode as-Is, To-Be,
ecision making und 4PROM Definition of the prodefinition, purpose, ptimization and evolution and ev	der uncertainty. Process Modeling	KZ d standards, SIPOC ractical examples, A KZ DCONTROL, Airpor	2 Process mode As-Is, To-Be, 3 t Council
lecision making und 14PROM Definition of the production, purpose, optimization and evanuation and evanuation and evanuational, International, Internationa	der uncertainty. Process Modeling Description Process Modeling Description Process Modeling Process Managed Process Managed	KZ d standards, SIPOC ractical examples, A KZ DCONTROL, Airpor KZ s of propulsion, and	2 Process mode as-Is, To-Be, 3 t Council 3
ecision making und 4PROM Definition of the proceedination, purpose, ptimization and evidence include variational, International, Internationa	der uncertainty. Process Modeling	KZ d standards, SIPOC ractical examples, A KZ DCONTROL, Airpor KZ s of propulsion, and	2 Process modes-ls, To-Be, 3 t Council 3 I new types of
ecision making und 4PROM definition of the prodefinition, purpose, ptimization and evaluation and evaluation and evaluation and international, International, International includes viation fuels. The ct smart airports, the	der uncertainty. Process Modeling	KZ d standards, SIPOC ractical examples, A KZ DCONTROL, Airpor KZ s of propulsion, and	2 Process modes-ls, To-Be, 3 t Council 3 I new types of
ecision making und 4PROM definition of the proceedination, purpose, ptimization and evaluation and evaluation and evaluational, International, International	der uncertainty. Process Modeling	KZ d standards, SIPOC ractical examples, A KZ DCONTROL, Airpor KZ s of propulsion, and imponent, and the c	2 Process mod as-Is, To-Be, 3 t Council 3 I new types of ourse also loo
ecision making und 4PROM Definition of the proceedination, purpose, ptimization and evaluation and evaluation and evaluation and evaluation and evaluational, Internet and Parket and Parke	der uncertainty. Process Modeling cess, role, KPl's, areas of interest. Process Map, definition, purpose, clear examples and demonstrations, recommendations and procedures and tools, static and dynamic models. BPMN language, syntax and semantics, process flows. Implementation of praluation. Aviation Engineering English 2 crious types of the language exercises and are focused on the following topics - Aviation associations, ISAGO and IGOM, EURO national Air Transport Association, Airport Engineering, Airline business, Future development in civil aviation. New Trends in Aviation Technologies s an introduction to all the technologies that are currently important to aviation, such as new aircraft design concepts, new type course also covers new types of urban mobility, virtual reality systems, biomechanical analysis. ATM technologies are another cone use of blockchain, and airport simulations. Thesis Seminar 2	KZ d standards, SIPOC ractical examples, A KZ DCONTROL, Airpor KZ s of propulsion, and imponent, and the c Z of results. Graphic	2 Process mod as-Is, To-Be, 3 t Council 3 I new types of ourse also loo 2 design of the
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decision making und 14PROM Definition of the production of the production, purpose, optimization and evaluation and evaluation of the production of the pro	Process Modeling loses, role, KPl's, areas of interest. Process Map, definition, purpose, clear examples and demonstrations, recommendations and procedures and tools, static and dynamic models. BPMN language, syntax and semantics, process flows. Implementation of procedures and tools, static and dynamic models. BPMN language, syntax and semantics, process flows. Implementation of procedures and tools, static and dynamic models. BPMN language, syntax and semantics, process flows. Implementation of procedures and tools, static and dynamic models. BPMN language, syntax and semantics, process flows. Implementation of procedures and tools, static and dynamic models. BPMN language, syntax and semantics, process flows. Implementation of procedures and tools, static and semantics, process flows. Implementation, ISAGO and IGOM, EURO national Air Transport Association, Airport Engineering, Airline business, Future development in civil aviation. New Trends in Aviation Technologies s an introduction to all the technologies that are currently important to aviation, such as new aircraft design concepts, new type course also covers new types of urban mobility, virtual reality systems, biomechanical analysis. ATM technologies are another concept use of blockchain, and airport simulations. Thesis Seminar 2 from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation ofted graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhet	KZ d standards, SIPOC ractical examples, A KZ DCONTROL, Airpor KZ s of propulsion, and imponent, and the c Z of results. Graphic	2 Process mod as-Is, To-Be, 3 t Council 3 I new types of ourse also loo 2 design of the

Name of the block: Semestrální projekt Minimal number of credits of the block: 8

The role of the block: ZP

FCE, CAE.

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:

Note on the gr	roup:					
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 Zajíček, Zuzana Čarská, Dagmar Kočárková, Kristýna Neubergová, Martin Jacura, Jan Kruntorád, Ondřej 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 Mik, Přemysl Toman	Z	2	0P+2C+4B	Z	ZP
17XN1	Master Project 1 Václav Baroch, Michal Drábek, Alexandra Dvořáčková, Veronika Faifrová, Eliška Glaserová, Rudolf Franz Heidu, Tomáš Horák, Vít Janoš, Milan Kříž,	Z	2	0P+2C+4B	Z	ZP
18XN1	Master Project 1 Daniel Kytýř, Václav Rada, Nela Krčmářová	Z	2	0P+2C+4B	Z	ZP
20XN1	Master Project 1 Milan Sliacky, Jiří Růžička	Z	2	0P+2C+4B	Z	ZP
21XN1	Master Project 1 Natalia Guskova, Stanislav Pleninger, Jakub Kraus, Slobodan Stojić, Peter Vittek, Terézia Pilmannová, Andrej Lališ, Vladimír Socha, Lenka Hanáková,	Z	2	0P+2C+4B	Z	ZP
22XN1	Master Project 1 Michal Frydrýn, Karel Kocián, Luboš Nouzovský, Zdeněk Svatý, Jakub Nováček	Z	2	0P+2C+4E	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 Zajíček, Zuzana Čarská, Dagmar Kočárková, Kristýna Neubergová, Martin Jacura, Jan Kruntorád, Ondřej 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, Přemysl Toman	Z	2	0P+2C+8B	L	ZP
17XN2	Master Project 2 Václav Baroch, Michal Drábek, Alexandra Dvořáčková, Veronika Faifrová, Rudolf Franz Heidu, Tomáš Horák, Vít Janoš, Milan Kříž, Olga Mertlová, Vít Janoš (Gar.)	Z	2	0P+2C+8B	L	ZP
18XN2	Master Project 2 Daniel Kytýř, Nela Krčmářová, Petr Koudelka, Tomáš Fíla Daniel Kytýř	Z	2	0P+2C+8B	L	ZP
20XN2	Master Project 2 Milan Sliacky, Jiří Růžička, Patrik Horažďovský, Pavel Hrubeš, Martin Langr	Z	2	0P+2C+8B	L	ZP
21XN2	Master Project 2 Natalia Guskova, Kateřina Grötschelová, Jakub Kraus, Slobodan Stojić, Peter Vittek, Terézia Pilmannová, Andrej Lališ, Lenka Hanáková, Jakub Hospodka,	Z	2	0P+2C+8B	L	ZP
22XN2	Master Project 2 Michal Frydrýn, Karel Kocián, Luboš Nouzovský, Zdeněk Svatý, Jakub Nováček	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, Jana Kuklová, Bohumil Kovář, Ondřej Přibyl, Jan Přikryl Jana Kuklová Bohumil Kovář (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 Vit Fábera Vit 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 Krčmářová	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, Kateřina Grötschelová, Stanislav Pleninger, Jakub Kraus, Slobodan Stojić, Peter Vittek, Terézia Pilmannová, Andrej Lališ, Vladimír Socha,	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, Jana Kuklová, Bohumil Kovář, Jan Přikryl 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 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 Krčmářová	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, Kateřina Grötschelová, Stanislav Pleninger, Jakub Kraus, Petr Had, Jiří Volt, Slobodan Stojić, Peter Vittek, Terézia Pilmannová, Lenka Hanáková	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-NK-PL-23/24

Name of the group: Comp. Sel. Courses Master Part-Time PL from 2023/24 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 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 Zozuľák	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
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

Characteristics of the courses of this group of Study Plan: Code=Y2-NK-PL-23/24 Name=Comp. Sel. Courses Master Part-Time PL from 2023/24

2023/24		
21Y2BS Unmanned aircraft systems 2	KZ	2
Modern trends in unmanned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of u	ınmanned aircraft. Flights beyond the applic	able legislation.
21Y2CR CRM	KZ	2
Introduction to CRM. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stres	ss and its effect on the human body. Fatigu	e Sleep &
Vigilance. Information Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leader	rship & Department of the result of the resu	
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 resources, depreciation	n, retained
earnings, shares, bonds, 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	h Republic. Quality management system. E	invironmental
management systems. Integrated management systems. Risk management in the context of the requirements of ISO standar	ds. Sectoral quality management systems.	Comprehensive
quality management, excellence models and corporate social responsibility. Quality audits.		
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 marketi	ing 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 mark	eting, the lectures present systems of mar	ket, competition
and product analysis, creation 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 investigat	tion team. Examples of aircraft accident in	estigations in
the Czech Republic and abroad and analysis of published final reports. Examples of the preparation of the final report of an	air accident investigation.	
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	n, addressed using mathematical approach	es and software
tools. A large part is devoted to air targets tracking, measurement-to-track association, track filtering and multisensor trackin	g.	
21Y2PP Law and Operation in Air Transport	KZ	2
Development of aviation law. International conventions on civil aviation. International organisations and including of the Czec	ch Republic in these organisations. EU leg	slation and civil
aviation. Execution of state administration and state supervision in matters of civil aviation, in accordance with Act No. 49/19	997 Col. Facilitation. Responsibilities of air	carriers for
passengers, luggage and cargo. The safe transport of dangerous goods.		
21Y2UL Aircraft Maintenance	KZ	2
Approved Maintenance Organisations (AMOs), Continuing Airworthiness Management Organisations (CAMOs), Maintenance	e Training Organisations (MTOs), technica	I documentation
and additional ICA (Instructions for Continued Airworthiness) instructions, aircraft release to service procedure, maintenance	e programmes and scheduling, modification	ns and general
repair methods, aircraft centre of gravity and weights, human factors in aircraft maintenance.		
14Y2UI Artificial Intelligence	KZ	
111201 71 tillolat intolligenee	NZ	2

List of courses of this pass:

Code	Name of the course	Completion	Credits
11APAS	Applied Statistics	Z,ZK	4
Descriptive statistic	s, data preprocessing, discretize continuous data. Hypothesis testing - continuous and discrete variables. Regression and correlation a	ınalysis. Multivarial	ole methods
 multiple regress 	ion analysis, logistic regression analysis, ROC curve, MANOVA, PCA, Factor analysis. Power analysis, preparation, processing and e	evaluation of hte ex	periment.
11MMJ	Mathematical Models and their Applications	Z,ZK	4
System. Regression	on, discrete and logistic models. Bayesian estimation of model parameters. Parameter estimation of normal regression, discrete and	ogistic models. Cla	assification
with logistic model.	One-step and multi-step prediction with regression and discrete models. State model. State estimation. Kalman filter. Control with re	gression and discr	ete models.
11MMOA	Mathematical methods for data analysis	Z,ZK	4
Stocastic	modelling, estimation, prediction, filtration, control, methods of data analysis - k-means, DBSCAN, naive Bayes, decision trees, supplying the modelling and the standard production of the standard production and the standard production of the standard production o	oort vector machin	е.
11XN1	Master Project 1	Z	2
11XN2	Master Project 2	Z	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
14PROM	Process Modeling	KZ	2
	cess, role, KPI's, areas of interest. Process Map, definition, purpose, clear examples and demonstrations, recommendations and stan se, procedures and tools, static and dynamic models. BPMN language, syntax and semantics, process flows. Implementation of pract		

optimization and evaluation.

14XN1	Montay Dynicat 1	Z	
14XN1 14XN2	Master Project 1 Master Project 2	Z	2
14XN3L	Master Project 3 for study programme PL	Z	2
14XN4L	Master Project 3 for study programme PL	Z	2
14Y2UI	Artificial Intelligence	KZ	2
	tory of artificial intelligence, knowledge, its representation including frames, state space search, constraints, genetic algorithms, made	1	2
15J2A1	Language - English 1	Z	2
	resentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work		_
15JBA2	Language - English 2	Z	2
	resentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work		I
15JBA3	Language - English 3	Z	2
Presentation Skills	s - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Op FCE, CAE.	tional courses for o	certificates
15JBA4	Language - English 4	ZK	2
	s - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Op FCE, CAE.		certificates
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
20XN4L	Master Project 4 for study programme PL	Z	2
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		-
	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
The course is focus	sed on understanding the issue of safety, learning how to assess new systems in terms of safety and acquiring principles of safety may	anagement. Studer	nts will learn
	explaining accidents and incident causes and bridge their theoretical knowledge with practical problems of air transport.		
21CNSS	CNS Systems	Z,ZK	5
	I technical informations about CNS (communication, navigation, surveilance) systems used in aviation. Systems are presented in pers	<u> </u>	
21ELEG	European Aviation Legislation	ZK	3
	subject "European Aviation Legislation" is the legal regulation of air operation, the system and structure of the national and European the Czech national environment and their impact on national regulation with a focus on requirements and criteria of individual regula		-
of Lo legal acts in	transportation.	uons on aviation to	ansport and
21KST	Space Technology	ZK	3
	sic characteristics. Fundamentals of astrophysics. Kepler's laws. Solar system. Earth's and its atmosphere and outer space. Space to		1
	their structure and operational characteristics. Space crafts and satellites, space flight. Orbital mechanics. Application of space tech and communication. Space exploration and piloted space flights and missions.	-	
21LETS	Airport	Z,ZK	4
	ning new airports and developing existing ones. Connection of the airport to the surrounding infrastructure. Airport economics. Details	/	1
movement areas	s. Certification of airside movement areas and procedures according to EASA CS-ADR-DSN. Development planning - design, prepar Environmental aspects of airport operations.	ration and regulato	ry basis.
21LIA1	Aviation Engineering English 1	Z	3
	arious types of the language exercises and are focused on the following topics - EUR-Lex and European Legislation, ICAO Annexes		
	iation Authorities, Accident investigation, Aircraft Airworthiness, Aircraft documentations and manuals, Medical certification, Emerger	ncy response plan.	
21LIA2	Aviation Engineering English 2	KZ	3
Lectures include	e various types of the language exercises and are focused on the following topics - Aviation associations, ISAGO and IGOM, EUROC	=	Council
041 DZD	International, International Air Transport Association, Airport Engineering, Airline business, Future development in civil aviati		
21LPZP	Air Traffic and the Environment out ecology, sustainable development, ecological stability, environmental protection and environmental legislation. It also focuses on	ZK	3
The course is ab	environment, current issues, threats and solutions.	an dame with resp	

21MULD	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 o	•	٠ ا
implementation,	airline network management, fleet management and revenue management. The core disciplines also include project management, co	ost management a	nd project
OANCD	resource planning and management.	7 71/	_
21NSR	Navigation and Flight Control Systems Navigation. Radionavigation. Satellite navigation. Flight management system. Autopilot. FMC. Practical execution of flight.	Z,ZK	5
21NTLE	New Trends in Aviation Technologies	KZ	3
	les an introduction to all the technologies that are currently important to aviation, such as new aircraft design concepts, new types of		
	course 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.		
21PAM1	Programming and Modelling 1	KZ	5
_	their generation. Real signals, sampling theorem, aliasing. Signal filtering. Fourier transform (FT), discrete Fourier transform (DFT),		
Spectrum estima	ation, spectral power density. Image - basic processing methods, 2D Fourier transform, noise filtering, edge detection, linear and non	-linear methods, bi	rightness
04 DAMO	transforms, geometric transforms, image compression.	1/7	_
21PAM2	Programming and Modelling 2 tistics, classical statistical analysis. Statistical hypothesis testing. Analysis of variance (ANOVA), one-factor, two-factor ANOVA. Non-p	KZ	5 Linear
•	lation, correlation coefficient. Non-linear regression models, procedure for regression analysis of a non-linear model. Basics of machi		
	nearest neighbour method. SVM classifiers. Decision trees.		
21PEKL	Principles and Models in Air Transport Economics	Z,ZK	5
The course contain	is the most important and typical models on which the economics of air transport is based. It covers the principles of regulation, airline	infrastructure mod	dels, 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 strategie	es and the econom	ic principles
	of safety and security.		
21PLDC	Air Carrier Operations	Z,ZK	5
	portance of air transport. Legislation. Airlines - structure, strategy. Performances in air transport. Cost structure. Fuel management. C		
(organization) and	d economics of aircraft operation. Ground handling and other services. Safety / Security / Quality and Compliance monitoring. Revenuand environment.	ie management. Al	ir transport
21PLET	Airport Operations	Z,ZK	5
	nd modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit		
3, 1113	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 wor		
General legalities	are 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 its
	security in The Czech Police Aviation Department.		
21SYMS	System Thinking	ZK	3
System, its struc	ture, algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal setting, u decision making under uncertainty.	ncertainties and ar	guments,
	decision making under uncertainty.		
21 YNI1		7	2
21XN1	Master Project 1	Z	2
21XN2	Master Project 1 Master Project 2	Z	2
21XN2 21XN3L	Master Project 1 Master Project 2 Master Project 3 for study programme PL	Z Z	2
21XN2 21XN3L 21XN4L	Master Project 1 Master Project 2 Master Project 3 for study programme PL Master Project 4 for study programme PL	Z Z Z	2 2 2
21XN2 21XN3L 21XN4L 21XNL1	Master Project 1 Master Project 2 Master Project 3 for study programme PL Master Project 4 for study programme PL Thesis seminar 1	Z Z Z Z	2 2 2 2
21XN2 21XN3L 21XN4L 21XNL1 Introduction, scien	Master Project 1 Master Project 2 Master Project 3 for study programme PL Master Project 4 for study programme PL	Z Z Z Z agement. Formal a	2 2 2 2 nd graphic
21XN2 21XN3L 21XN4L 21XNL1 Introduction, scien	Master Project 1 Master Project 2 Master Project 3 for study programme PL Master Project 4 for study programme PL Thesis seminar 1 tiffic publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time management of the scientific writing and the scientific writing are literature.	Z Z Z Z agement. Formal a	2 2 2 2 nd graphic
21XN2 21XN3L 21XN4L 21XNL1 Introduction, scien	Master Project 1 Master Project 2 Master Project 3 for study programme PL Master Project 4 for study programme PL Thesis seminar 1 tiffic publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time manatical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digit	Z Z Z Z agement. Formal a	2 2 2 2 nd graphic
21XN2 21XN3L 21XN4L 21XNL1 Introduction, scient design, mathematical 21XNL2	Master Project 1 Master Project 2 Master Project 3 for study programme PL Master Project 4 for study programme PL Thesis seminar 1 Itific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time manatical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digit outline. Rhetorical exercises / presentation skills.	Z Z Z Z agement. Formal a al notes, working v	2 2 2 2 2 nd graphic with notes,
21XN2 21XN3L 21XN4L 21XNL1 Introduction, sciet design, mathema 21XNL2 Selected chapters	Master Project 1 Master Project 2 Master Project 3 for study programme PL Master Project 4 for study programme PL Thesis seminar 1 Itific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time manatical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digit outline. Rhetorical exercises / presentation skills. Thesis Seminar 2 Is from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of repted graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetorical	Z Z Z Z agement. Formal a al notes, working w	2 2 2 2 nd graphic with notes,
21XN2 21XN3L 21XN4L 21XNL1 Introduction, sciet design, mathema 21XNL2 Selected chapters work, own and ado	Master Project 1 Master Project 2 Master Project 3 for study programme PL Master Project 4 for study programme PL Thesis seminar 1 Itific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time manatical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digit outline. Rhetorical exercises / presentation skills. Thesis Seminar 2 Is from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of repted graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetorical Specifics of state exams.	Z Z Z agement. Formal a lal notes, working with the second	2 2 2 2 nd graphic with notes, 2 sign of the tation skills.
21XN2 21XN3L 21XN4L 21XNL1 Introduction, sciet design, mathema 21XNL2 Selected chapterswork, own and adoption adoption and adoption and adoption and adoption adoption adoption adoption adoption adoption adoption and adoption	Master Project 1 Master Project 2 Master Project 3 for study programme PL Master Project 4 for study programme PL Thesis seminar 1 Itific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time manatical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digit outline. Rhetorical exercises / presentation skills. Thesis Seminar 2 In the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of repred graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetorical Specifics of state exams. Unmanned aircraft systems 2	Z Z Z agement. Formal a al notes, working with the second	2 2 2 2 nd graphic with notes, 2 sign of the tation skills.
21XN2 21XN3L 21XN4L 21XNL1 Introduction, sciet design, mathema 21XNL2 Selected chapter work, own and adopton trends in un	Master Project 1 Master Project 2 Master Project 3 for study programme PL Master Project 4 for study programme PL Thesis seminar 1 Itific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time manatical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digit outline. Rhetorical exercises / presentation skills. Thesis Seminar 2 In from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of repted graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetorical Specifics of state exams. Unmanned aircraft systems 2 Inmanned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights be	Z Z Z agement. Formal a lal notes, working v Z esults. Graphic desercises / presen	2 2 2 2 nd graphic with notes, 2 sign of the tation skills.
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21XN2 21XN3L 21XN4L 21XNL1 Introduction, sciet design, mathema 21XNL2 Selected chapterswork, own and adoption trends in uterated to the control of the contr	Master Project 1 Master Project 2 Master Project 3 for study programme PL Master Project 4 for study programme PL Thesis seminar 1 Itific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time manatical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digit outline. Rhetorical exercises / presentation skills. Thesis Seminar 2 In from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of repreted graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetorical Specifics of state exams. Unmanned aircraft systems 2 Inmanned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights be CRM M. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the hum.	Z Z Z Z agement. Formal a all notes, working with a service services / presenting servic	2 2 2 2 nd graphic with notes, 2 sign of the tation skills. 2 e legislation. 2 leep & amp;
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21Y2UL	Aircraft Maintenance	KZ	2
Approved Maintena	ance Organisations (AMOs), Continuing Airworthiness Management Organisations (CAMOs), Maintenance Training Organisations (M	TOs), technical do	cumentation
and additional ICA	(Instructions for Continued Airworthiness) instructions, aircraft release to service procedure, maintenance programmes and schedul	ing, modifications	and general
	repair methods, aircraft centre of gravity and weights, human factors in aircraft maintenance.		
22XN1	Master Project 1	Z	2
22XN2	Master Project 2	Z	2
22XN3L	Master Project 3 for study programme PL	Z	2
22XN4L	Master Project 4 for study programme PL	Z	2
22Y2MN	Methods and Procedures of Aircraft Accident Investigation	KZ	2
Expanding knowle	edge of practical procedures in aircraft accident investigation. Equipment and organisation of the investigation team. Examples of airc	raft accident inves	tigations in
the	e Czech Republic and abroad and analysis of published final reports. Examples of the preparation of the final report of an air acciden	t investigation.	
23XN1	Master Project 1	Z	2
23XN2	Master Project 2	Z	2
23XN3L	Master Project 3	Z	2
23XN4L	Master Project 4	Z	2

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