Study plan

Name of study plan: Master Part-Time PL from 2022/23

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

Environmental aspects of airport operations.

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:

Note on the group	p:					
Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Completion Credits So Tutors, authors and guarantors (gar.) Tutors, authors and guarantors (gar.) Completion Credits So		Scope	Semester	Role	
11APAS	Applied Statistics Evženie Uglickich, Pavla Pecherková Pavla Pecherková	Z,ZK	4	2P+2C+12B	Z	Z
11MMJ	Mathematical Models and their Applications Evženie Uglickich, Pavla Pecherková, Ivan Nagy, Michal Matowicki, 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, Andrej Lališ Andrej Lališ	Z,ZK	4	2P+2C+12B	Z	Z
21CNSS	CNS Systems Stanislav Pleninger, Jakub Steiner Stanislav Pleninger	Z,ZK	5	3P+2C+16B	Z	Z
21LETS	Airport Jakub Kraus, Petr Líka, 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 Z,ZK 5		4P+2C+16B	Z	Z	
15J2A1	Language - English 1 Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerová	Z	2	0P+2C+10B	Z	Z
11APAS Ap Descriptive statistics, data pr	e courses of this group of Study Plan: Code=1S-NK-PL-22/23 N plied Statistics eprocessing, discretize continuous data. Hypothesis testing - continuous and discrete s, logistic regression analysis, ROC curve, MANOVA, PCA, Factor analysis. Power an	variables. Regress	ion and cor	Z relation anal	Z,ZK ysis. Multivaria	4 ble methods
System. Regression, discrete	thematical Models and their Applications e and logistic models. Bayesian estimation of model parameters. Parameter estimatio o and multi-step prediction with regression and discrete models. State model. State es	•		te and logis		
	fety Engineering in Aviation				Z,ZK	4
	derstanding the issue of safety, learning how to assess new systems in terms of safet		inciples of s	afety manag	gement. Stude	nts will learr
<u> </u>	ident causes and bridge their theoretical knowledge with practical problems of air tran	nsport.				
	IS Systems			1	Z,ZK	5
	al informations about CNS (communication, navigation, surveilance) systems used in a	aviation. Systems a	are presente			evelopment
	port			1	Z,ZK	4
	irports and developing existing ones. Connection of the airport to the surrounding infr					
novement areas. Certificatio	on of airside movement areas and procedures according to EASA CS-ADR-DSN. Dev	elopment planning	j - design, p	reparation a	nu regulatory	Jasis.

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

Code of the group: 2S-NK-PL-22/23 Name of the group: 2nd Sem. Master Part-Time PL from 2022/23 Requirement credits in the group: In this group you have to gain 26 credits Requirement courses in the group: In this group you have to complete 6 courses Credits in the group: 26 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
21AFM	Air Traffic Management Jakub Kraus, Terézia Pilmannová, Martina Hlavatá Jakub Kraus Jakub Kraus (Gar.)	Z,ZK	5	3P+2C+16B	L	Z
21MULD	Managerial Challenges in Air Transport Peter Vittek Peter Vittek (Gar.)	Z,ZK	5	3P+2C+14B	L	Z
21PLET	Airport Operations Sébastien Lán, Petr Had, Ji í Volt Slobodan Stoji Slobodan Stoji (Gar.)	Z,ZK	5	2P+2C+12B	L	Z
21SPOL	Aircraft Technology Reliability Natalia Guskova, Kate ina Grötschelová, Old ich Štumbauer, Kiyofolo Benjamin Ouattara Andrej Lališ (Gar.)	Z,ZK	4	2P+1C+12B	L	Z
21PAM1	Programming and Modelling 1 Vladimír Socha, Lenka Hanáková Vladimír Socha Vladimír Socha (Gar.)	KZ	5	2P+4C+16B	L	Z
15JBA2	Language - English 2 Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerová,	Z	2	0P+2C+10B	L	Z

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

21AFM	Air Traffic Management	Z,ZK	5
Current ATM system an	d its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Data	exchange with n	eighboring ATM
systems. Monitoring sys	tems and technical supervision. ATM simulation. ATM conceptions and strategies for next years. EUROCONTROL - CFMU. FAB	B. ATS's - AOC's c	lata applications.
21MULD	Managerial Challenges in Air Transport	Z,ZK	5
The course contains a I	ist of basic managerial tasks in aviation. The basic managerial tasks are quality assurance and operational safety, marketing	operations, mark	eting context
implementation, airline	network management, fleet management and revenue management. The core disciplines also include project management,	cost managemen	t and project
resource planning and r	nanagement.		
21PLET	Airport Operations	Z,ZK	5
Planning, design and m	odelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport cap	acity. Available to	ols and practices
for increasing capacity.	Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport masterplan.		
21SPOL	Aircraft Technology Reliability	Z,ZK	4
Subject deals with tuition	n of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and v	working of aerosp	ace engineering.
General legalities are in	the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and t	they are practical	illustration of its
security in The Czech P	olice Aviation Department.		
21PAM1	Programming and Modelling 1	KZ	5
Harmonic signals, their	generation. Real signals, sampling theorem, aliasing. Signal filtering. Fourier transform (FT), discrete Fourier transform (DFT), fast Fourier trar	nsform (FFT).
Spectrum estimation, sp	pectral power density. Image - basic processing methods, 2D Fourier transform, noise filtering, edge detection, linear and nor	h-linear methods,	brightness
transforms, geometric ti	ransforms, image compression.		
15JBA2	Language - English 2	Z	2
Presentation Skills - exp	pert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.		•

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:

Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their Code Completion Credits Scope Semester Role members) Tutors, authors and guarantors (gar.) Mathematical methods for data analysis 11MMOA Z,ZK 4 2P+2C+12B Ζ Ζ Evženie Uglickich, Pavla Pecherková Pavla Pecherková Evženie Uglickich (Gar.)

21NSR	Navigation and Flight Control Systems Milan Kameník, Ladislav Capoušek, Jakub Hospodka, Jakub Trýb Jakub Hospodka	Z,ZK	5	3P+2C+14B	Z	z
21PLDC	Air Carrier OperationsZ,ZK53P+2C+10Miloš StrouhalXiloš StrouhalZ,ZK53P+2C+10					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 Jitka He manová	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 He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Markéta Musilová, Jan Feit, Eva Rezlerová,	Z	2	0P+2C+10B	Z	Z
	e courses of this group of Study Plan: Code=3S-NK-PL-23/24 Na	me=3rd Sem	n. Bache			
	athematical methods for data analysis	Deves desisions			,ZK	4
	tion, prediction, filtration, control, methods of data analysis - k-means, DBSCAN, naive	Bayes, decision	trees, supp			
	avigation and Flight Control Systems	6 61: l- t		Z	,ZK	5
	 Satellite navigation. Flight management system. Autopilot. FMC. Practical execution of a Constant Operations. 	n night.		7	71/	5
	r Carrier Operations air transport. Legislation. Airlines - structure, strategy. Performances in air transport. Co	ot otructure. Fuel			,ZK	5
	cs of aircraft operation. Ground handling and other services. Safety / Security / Quality		•	•		
and environment.	cs of ancian operation. Orbina nanaling and other services. Galety / Gecunty / Quanty		morntoring	. Revenue ma	nagement. /	
	ogramming and Modelling 2			I	٢Z	5
	cal statistical analysis. Statistical hypothesis testing. Analysis of variance (ANOVA), one	-factor two-facto	r ANO\/A			-
	relation coefficient. Non-linear regression models, procedure for regression analysis of			•		
	SVM classifiers. Decision trees.					
21LIA1 Av	iation Engineering English 1				7	3
	bes of the language exercises and are focused on the following topics - EUR-Lex and E	uropean Legislat	ion. ICAO			-
	cident investigation, Aircraft Airworthiness, Aircraft documentations and manuals, Med					,
21XNL1 Th	nesis seminar 1				Z	2
	cations, publications devoted to scientific writing, grey literature, difference between bac	chelor and maste	r thesis. Ti	ne manageme	ent. Formal a	and graphic
design, mathematical types	etting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, da	atabases, critical	work with t	ext, digital not	es, working	with notes,
outline. Rhetorical exercises	s / presentation skills.					
15JBA3 La	nguage - English 3				Z	2
Presentation Skills - expert	technical discourse and style; Analysis of expert texts and their production; Preparation	n for overseas wo	rk engager	ment.Optional	courses for	certificates
FCE, CAE.						

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

Characteristics of the courses of this group of Study Plan: Code=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 subject "European Aviation Legislation" is the legal regulation of air operation, the system and structure of the national and Europe	an 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 regu	lations on aviatio	on transport and
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	e transport vehicl	es. Rockets and
rocket engines and their structure and operational characteristics. Space crafts and satellites, space flight. Orbital mechanics. Application of space te	chnologies for glo	obal navigation
and communication. Space exploration and piloted space flights and missions.		
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 on	air traffic with res	spect to the
environment, current 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, u	ncertainties and	arguments,
decision making under uncertainty.		
14PROM Process Modeling	KZ	2
Definition of the process, role, KPI's, areas of interest. Process Map, definition, purpose, clear examples and demonstrations, recommendations and s	andards, SIPOC.	Process model,
definition, purpose, procedures and tools, static and dynamic models. BPMN language, syntax and semantics, process flows. Implementation of practice of the syntax and semantics and tools are service of the syntax and tools	tical examples, A	s-ls, To-Be,
optimization and evaluation.		
21LIA2 Aviation Engineering English 2	KZ	3
Lectures include various types of the language exercises and are focused on the following topics - Aviation associations, ISAGO and IGOM, EUROC	ONTROL, Airpor	t Council
International, International 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	f propulsion, and	new types of
aviation fuels. The course also covers new types of urban mobility, virtual reality systems, biomechanical analysis. ATM technologies are another comp	oonent, and the c	ourse also looks
at smart airports, the use of blockchain, and airport simulations.		
21XNL2 Thesis Seminar 2	Z	2
Selected chapters from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of	results. Graphic	design of the
work, own and adopted graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetori	cal exercises / pre	esentation skills.
Specifics of state exams.		
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.O	ptional courses fo	or certificates
FCE, CAE.		

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:

Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their Completion Credits Code Scope Semester Role members) Tutors, authors and guarantors (gar.) Master Project 1 11XN1 Ζ 0P+2C+4B Ζ 2 ZΡ Pavla Pecherková, Jana Kuklová Jana Kuklová Jana Kuklová (Gar.) Master Project 1 12XN1 Ζ 0P+2C+4B Ζ Daniel Chlebek, Jakub Zají ek, Zuzana arská, Dagmar Ko árková, Kristýna 2 ZΡ Neubergová, Martin Jacura, Jan Kruntorád, Ond ej Trešl, David Vodák, Ζ 14XN1 Ζ 2 0P+2C+4B ZΡ Master Project 1 15XN1 Ζ 0P+2C+4B Ζ 2 **Master Project 1** 7P Master Project 1 Ζ Ζ 16XN1 2 0P+2C+4B 7P Josef Mík, P emysl Toman Master Project 1 17XN1 Ζ 2 0P+2C+4B Ζ Václav Baroch, Michal Drábek, Alexandra Dvo á ková, Veronika Faifrová, Eliška Glaserová, Rudolf Franz Heidu, Tomáš Horák, Vít Janoš, Milan K íž, 7P Master Project 1 18XN1 Ζ 2 Ζ 0P+2C+4B ZΡ Daniel Kytý, Václav Rada, Nela Kr má ová Master Project 1 20XN1 Ζ 2 0P+2C+4B Ζ ZΡ Milan Sliacky, Ji í R ži ka Master Project 1 21XN1 Ζ 2 Ζ 0P+2C+4B ZΡ Natalia Guskova, Andrej Lališ, Stanislav Pleninger, Jakub Steiner, Jakub Kraus, Slobodan Stoji , Peter Vittek, Terézia Pilmannová, Vladimír Socha, Master Project 1 22XN1 Ζ 2 Ζ 0P+2C+4B ZΡ Michal Frydrýn, Karel Kocián, Luboš Nouzovský, Zden k Svatý, Jakub Nová ek 23XN1 Ζ Ζ 2 0P+2C+4B Master Project 1 7P

11XN2	Master Project 2 Pavla Pecherková, Jana Kuklová Jana Kuklová Jana Kuklová (Gar.)	Z	2	0P+2C+8B	L	ZP
12XN2	Master Project 2 Daniel Chlebek, Jakub Zají ek, Zuzana arská, Dagmar Ko árková, Kristýna Neubergová, Martin Jacura, Jan Kruntorád, Ond ej Trešl, David Vodák,	Z	2	0P+2C+8B	L	ZP
14XN2	Master Project 2 Vít Fábera, Tomáš Brandejský, Mária Jánešová, Jan Zelenka	Z	2	0P+2C+8B	L	ZP
15XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
16XN2	Master Project 2 Josef Mík, P emysl Toman	Z	2	0P+2C+8B	L	ZP
17XN2	Master Project 2 Václav Baroch, Michal Drábek, Alexandra Dvo á ková, Veronika Faifrová, Rudolf Franz Heidu, Tomáš Horák, Vít Janoš, Milan K íž, Olga Mertlová, Vít Janoš (Gar.)	Z	2	0P+2C+8B	L	ZP
18XN2	Master Project 2 Nela Kr má ová, Petr Koudelka, Tomáš Fíla Daniel Kytý	Z	2	0P+2C+8B	L	ZP
20XN2	Master Project 2 Milan Sliacky, Ji í R ži ka, Patrik Horaž ovský	Z	2	0P+2C+8B	L	ZP
21XN2	Master Project 2 Natalia Guskova, Kate ina Grötschelová, Andrej Lališ, Jakub Steiner, Jakub Kraus, Slobodan Stoji, Peter Vittek, Terézia Pilmannová, Lenka Hanáková, 	Z	2	0P+2C+8B	L	ZP
22XN2	Master Project 2 Michal Frydrýn, Karel Kocián, Luboš Nouzovský, Zden k Svatý, Jakub Nová ek	Z	2	0P+2C+8B	L	ZP
23XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
11XN3L	Master Project 3 for study programme PL Ivan Nagy, Michal Matowicki, Jana Kuklová, Bohumil Ková, Ond ej Pibyl, Jan Pikryl 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, Andrej Lališ, Stanislav Pleninger, Jakub Steiner, Jakub Kraus, Slobodan Stoji, Peter Vittek, Terézia Pilmannová, 	Z	2	0P+2C+8B	Z	ZP
22XN3L	Master Project 3 for study programme PL	Z	2	0P+2C+8B	Z	ZP
23XN3L	Master Project 3	Z	2	0P+2C+8B	Z	ZP
11XN4L	Master Project 4 for study programme PL Jana Kuklová	Z	2	0P+5C+8B	L	ZP
12XN4L	Master Project 4 for study programme PL	Z	2	0P+5C+8B	L	ZP
14XN4L	Master Project 4 for study programme PL Vít Fábera, Tomáš Brandejský, Mária Jánešová, Jan Zelenka	Z	2	0P+5C+8B	L	ZP
15XN4L	Master Project 4 for study programme PL	Z	2	0P+5C+8B	L	ZP
16XN4L	Master Project 4 for study programme PL	Z	2	0P+5C+8B	L	ZP
17XN4L	Master Project 4 for study programme PL	Z	2	0P+5C+8B	L	ZP
18XN4L	Master Project 4 for study programme PL Nela Kr má ová	Z	2	0P+5C+8B	L	ZP
20XN4L	Master Project 4 for study programme PL	Z	2	0P+5C+8B	L	ZP
21XN4L	Master Project 4 for study programme PL Natalia Guskova, Kate ina Grötschelová, Andrej Lališ, Stanislav Pleninger, Jakub Steiner, Jakub Kraus, Petr Had, Ji í Volt, Slobodan Stoji ,	Z	2	0P+5C+8B	L	ZP
22XN4L	Master Project 4 for study programme PL	Z	2	0P+5C+8B	L	ZP
23XN4L	Master Project 4	Z	2	0P+5C+8B	L	ZP

Characteristics of the courses of this group of Study Plan: Code=X2-NX-PL-22/23 Name=Research Groups Master PL from 2022/23

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

22XN1	Master Project 1	Z	2
23XN1	Master Project 1	Z	2
11XN2	Master Project 2	Z	2
12XN2	Master Project 2	Z	2
14XN2	Master Project 2	Z	2
15XN2	Master Project 2	Z	2
16XN2	Master Project 2	Z	2
17XN2	Master Project 2	Z	2
18XN2	Master Project 2	Z	2
20XN2	Master Project 2	Z	2
21XN2	Master Project 2	Z	2
22XN2	Master Project 2	Z	2
23XN2	Master Project 2	Z	2
11XN3L	Master Project 3 for study programme PL	Z	2
12XN3L	Master Project 3 for study programme PL	Z	2
14XN3L	Master Project 3 for study programme PL	Z	2
15XN3L	Master Project 3 for study programme PL	Z	2
16XN3L	Master Project 3 for study programme PL	Z	2
17XN3L	Master Project 3 for study programme PL	Z	2
18XN3L	Master Project 3 for study programme PL	Z	2
20XN3L	Master Project 3 for study programme PL	Z	2
21XN3L	Master Project 3 for study programme PL	Z	2
22XN3L	Master Project 3 for study programme PL	Z	2
23XN3L	Master Project 3	Z	2
11XN4L	Master Project 4 for study programme PL	Z	2
12XN4L	Master Project 4 for study programme PL	Z	2
14XN4L	Master Project 4 for study programme PL	Z	2
15XN4L	Master Project 4 for study programme PL	Z	2
16XN4L	Master Project 4 for study programme PL	Z	2
17XN4L	Master Project 4 for study programme PL	Z	2
18XN4L	Master Project 4 for study programme PL	Z	2
20XN4L	Master Project 4 for study programme PL	Z	2
21XN4L	Master Project 4 for study programme PL	Z	2
22XN4L	Master Project 4 for study programme PL	Z	2
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-22/23

Name of the group: Comp. Sel. Courses Master Part-Time 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	grou	p:	

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
21Y2FM	Aviation Company Financial Management Radoslav Zozu ák Radoslav Zozu ák	KZ	2	2P+0C+8B	Z	PV
21Y2LS	Air Traffic Services	KZ	2	2P+0C+8B	L	PV
21Y2MQ	Quality Management Luboš Socha	KZ	2	2P+0C+8B	L	PV
21Y2MK	Marketing of Air Transport Peter Vittek Peter Vittek	KZ	2	2P+0C+8B	Z	PV
21Y2MC	CNS Systems Modelling Stanislav Pleninger Stanislav Pleninger	KZ	2	2P+0C+8B	Z	PV
21Y2PP	Law and Operation in Air Transport Radoslav Zozu ák	KZ	2	2P+0C+8B	L	PV
21Y2UL	Aircraft Maintenance Kate ina Stuchliková	KZ	2	2P+0C+8B	L	PV
14Y2UI	Artificial Intelligence	KZ	2	2P+0C+8B	Z,L	PV

21Y2VA	Selected Chapters of Aerodynamics	KZ	2	2P+0C+8B	L	PV
Characteristics of 2022/23	of the courses of this group of Study Plan: Code=Y2-NK-PL-22/2	23 Name=Comp. S	el. Cour	ses Master	Part-T	ime PL from
21Y2FM	Aviation Company Financial Management			K	Z	2
Theories of corporate	finance - financial statements, budget, forecast. Financial policy of the company. Finan	ncial resources - long-te	rm financia	al resources, de	preciatio	n, retained
earnings, shares, bon	ds, loans, leasing, capital. Financial and economic analysis of the company - structure	e and content.				
21Y2LS	Air Traffic Services			K	Z	2
Airspace structure in 0	Czech Republic and other countries. Introduction and description of ATS units in Czech	n Republic. Practical exa	mples of T	WR, APP a AC	C contro	I. History of ATS
at USA and Czechoslo	ovakia. ATS - Model of financing. Training Systém of Air Traffic Controllers. Future deve	elopment of ATS.				
21Y2MQ	Quality Management			K	Z	2
History, basic definitio	n. Pioneers in the field of quality. International quality organisations and quality promote	tion in the Czech Repub	lic. Quality	management s	ystem. È	invironmental
management systems	s. Integrated management systems. Risk management in the context of the requirement	s of ISO standards. Sect	oral quality	management s	systems.	Comprehensive
quality management,	excellence models and corporate social responsibility. Quality audits.					
21Y2MK	Marketing of Air Transport			K	Z	2
The content of the cou	urse "Marketing in air transport" is the management of activities and processes using a	available marketing tools	and proce	sses for analys	is, strate	gy development
and implementation of	f sales of goods and services in the aviation industry. In addition to the theoretical four	ndations of marketing, th	e lectures	present system	s of mar	ket, competition
and product analysis,	creation of marketing strategies and planning.					
21Y2MC	CNS Systems Modelling			K	Z	2
The course is designe	ed as a set of model tasks in the field of communication navigation and surveillance sys	stems in aviation, addres	ssed using	mathematical a	pproach	es and software
tools. A large part is d	levoted to air targets tracking, measurement-to-track association, track filtering and mu	ultisensor tracking.				
21Y2PP	Law and Operation in Air Transport			K	Z	2
Development of aviation	on law. International conventions on civil aviation. International organisations and inclu	iding of the Czech Repu	blic in thes	e organisations	EU legi	slation and civil
aviation. Execution of	state administration and state supervision in matters of civil aviation, in accordance with	ith Act No. 49/1997 Col.	Facilitation	 Responsibilitie 	es of air o	carriers for
passengers, luggage	and cargo. The safe transport of dangerous goods.					
21Y2UL	Aircraft Maintenance			K	Z	2
Approved Maintenanc	e Organisations (AMOs), Continuing Airworthiness Management Organisations (CAM	Os), Maintenance Trainir	ng Organis	ations (MTOs),	technica	I documentation
and additional ICA (In	structions for Continued Airworthiness) instructions, aircraft release to service procedu	ure, maintenance progra	ammes and	l scheduling, mo	odificatio	ns and general
repair methods, aircra	ft centre of gravity and weights, human factors in aircraft maintenance.					
14Y2UI	Artificial Intelligence			K	Z	2
History of artificial inte	elligence, knowledge, its representation including frames, state space search, constrain	nts, genetic algorithms,	machine le	arning.		
21Y2VA	Selected Chapters of Aerodynamics			K	Z	2
Physical properties of	real gases, atmosphere, aeronautical applications of external and internal aerodynamic	cs, compressible internal	flow, inlet	nozzles and driv	/e nozzle	s, compressible
external flow, supercri	itical wings and profiles, vertical and oblique shock wave, energy losses, aeronautical a	aerodynamic profiles of	wings, pro	pellers, blades g	gratings,	lift, drag, polar,
viscosity, laminar and	turbulent flow, boundary layer.					

List of courses of this pass:

Code	Name of the course	Completion	Credits
11APAS	Applied Statistics	Z,ZK	4
Descriptive statistics,	data preprocessing, discretize continuous data. Hypothesis testing - continuous and discrete variables. Regression and correlation a	analysis. Multivarial	ble methods
- multiple regressio	n analysis, logistic regression analysis, ROC curve, MANOVA, PCA, Factor analysis. Power analysis, preparation, processing and	evaluation of hte ex	kperiment.
11MMJ	Mathematical Models and their Applications	Z,ZK	4
, 0	n, discrete and logistic models. Bayesian estimation of model parameters. Parameter estimation of normal regression, discrete and	0	
with logistic model. C	Dne-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 n	nodelling, estimation, prediction, filtration, control, methods of data analysis - k-means, DBSCAN, naive Bayes, decision trees, sup	port vector machin	e.
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
	ess, role, KPI's, areas of interest. Process Map, definition, purpose, clear examples and demonstrations, recommendations and stan , procedures and tools, static and dynamic models. BPMN language, syntax and semantics, process flows. Implementation of prac optimization and evaluation.		
14XN1	Master Project 1	Z	2
14XN2	Master Project 2	Z	2
14XN3L	Master Project 3 for study programme PL	Z	2
14XN4L	Master Project 4 for study programme PL	Z	2

14Y2UI	Artificial Intelligence story of artificial intelligence, knowledge, its representation including frames, state space search, constraints, genetic algorithms, mad	KZ	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 resentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work o		2
15JBA3	Language - English 3	Z	2
	s - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Op	tional courses for	certificates
15JBA4	FCE, CAE. 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.	_	
15XN1	Master Project 1	Z Z	2
15XN2 15XN3L	Master Project 2 Master Project 3 for study programme PL	Z	2
15XN4L	Master Project 9 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 17XN4L	Master Project 3 for study programme PL Master Project 4 for study programme PL	Z Z	2
17XN4L 18XN1	Master Project 4 for study programme PL 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 Current ATM syste	Air Traffic Management m and its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Data ex	Z,ZK	5
	g systems and technical supervision. ATM simulation. ATM conceptions and strategies for next years. EUROCONTROL - CFMU. FAB. A		
21BILD	Safety Engineering in Aviation	Z,ZK	4
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 ma explaining accidents and incident causes and bridge their theoretical knowledge with practical problems of air transport.	anagement. Studer	nts will learn
21CNSS	CNS Systems	Z,ZK	5
	Il technical informations about CNS (communication, navigation, surveilance) systems used in aviation. Systems are presented in pers	, ,	1
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 regulat transportation.		-
21KST	Space Technology	ZK	3
	asic characteristics. Fundamentals of astrophysics. Kepler's laws. Solar system. Earth's and its atmosphere and outer space. Space to the structure and expertisional abaracteristics. Space crefts and established experimental abaracteristics.		
Tocket engines and	d 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.	inologies for globa	Thavigation
21LETS	Airport	Z,ZK	4
•	ning new airports and developing existing ones. Connection of the airport to the surrounding infrastructure. Airport economics. Detaile		•
movement area	Is. Certification of airside movement areas and procedures according to EASA CS-ADR-DSN. Development planning - design, prepar Environmental aspects of airport operations.	ation and regulate	ory 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	and SARPs, AMC	s and GMs,
	viation Authorities, Accident investigation, Aircraft Airworthiness, Aircraft documentations and manuals, Medical certification, Emerger		
21LIA2	Aviation Engineering English 2 le various types of the language exercises and are focused on the following topics - Aviation associations, ISAGO and IGOM, EUROC	CONTROL Airport	3 t Council
	International, International Air Transport Association, Airport Engineering, Airline business, Future development in civil aviati	-	
21LPZP	Air Traffic and the Environment	ZK	3
The course is ab	bout ecology, sustainable development, ecological stability, environmental protection and environmental legislation. It also focuses on	air traffic with resp	pect to the
	environment, current issues, threats and solutions. Managerial Challenges in Air Transport	Z,ZK	5
		<u>(۲</u>	1
21MULD The course conta	ains a list of basic managerial tasks in aviation. The basic managerial tasks are quality assurance and operational safety, marketing o	perations, marketi	ng context
The course conta	ains a list of basic managerial tasks in aviation. The basic managerial tasks are quality assurance and operational safety, marketing o airline network management, fleet management and revenue management. The core disciplines also include project management, co	-	-
The course conta	ains a list of basic managerial tasks in aviation. The basic managerial tasks are quality assurance and operational safety, marketing o	-	-

21NTLE	New Trends in Aviation Technologies	KZ	3
	es an introduction to all the technologies that are currently important to aviation, such as new aircraft design concepts, new types of		
aviation fuels. The c	course also covers new types of urban mobility, virtual reality systems, biomechanical analysis. ATM technologies are another comport	nent, and the cours	e also looks
	at smart airports, the use of blockchain, and airport simulations.		
21PAM1	Programming and Modelling 1	KZ	5
Harmonic signals	, their generation. Real signals, sampling theorem, aliasing. Signal filtering. Fourier transform (FT), discrete Fourier transform (DFT),	fast Fourier transfo	orm (FFT).
Spectrum estima	ation, spectral power density. Image - basic processing methods, 2D Fourier transform, noise filtering, edge detection, linear and non	-linear methods, bi	rightness
	transforms, geometric transforms, image compression.		
21PAM2	Programming and Modelling 2	KZ	5
	istics, classical statistical analysis. Statistical hypothesis testing. Analysis of variance (ANOVA), one-factor, two-factor ANOVA. Non-p	1	
	ation, correlation coefficient. Non-linear regression models, procedure for regression analysis of a non-linear model. Basics of machi		
regression. Correr		ne learning. Classi	liteation by
	nearest neighbour method. SVM classifiers. Decision trees.	7 71/	
21PEKL	Principles and Models in Air Transport Economics	Z,ZK	5
	s the most important and typical models on which the economics of air transport is based. It covers the principles of regulation, airline		
structure, analyses	airline costs, and looks in detail at the low-cost and charter airline model. It also focuses on airline alliances, air cargo, airline strategie	es and the econom	ic principles
	of safety and security.		
21PLDC	Air Carrier Operations	Z,ZK	5
Mission and im	portance of air transport. Legislation. Airlines - structure, strategy. Performances in air transport. Cost structure. Fuel management. C	argo. Aircraft main	tenance
(organization) and	l economics of aircraft operation. Ground handling and other services. Safety / Security / Quality and Compliance monitoring. Revenu	ie management. Ai	ir transport
	and environment.		
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	· · ·	
r lanning, doolgir al	for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport master	-	
24000			4
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 a	are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and they	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	ncertainties and ar	guments,
	decision making under uncertainty.		
21XN1	Master Project 1	Z	2
21XN2	Master Project 2	Z	2
		_	
21XN3L	Master Project 3 for study programme PL	Z	2
21XN4L	Master Project 4 for study programme PL	Z	2
		Z	2
21XNL1	Thesis seminar 1	Z	2
21XNL1 Introduction, scier	Thesis seminar 1 tific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time mana	Z agement. Formal a	2 nd graphic
21XNL1 Introduction, scier	Thesis seminar 1 tific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time mana tical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digit	Z agement. Formal a	2 nd graphic
21XNL1 Introduction, scier design, mathemat	Thesis seminar 1 tific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time mana tical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digit outline. Rhetorical exercises / presentation skills.	Z agement. Formal a tal notes, working v	2 nd graphic with notes,
21XNL1 Introduction, scier design, mathemat 21XNL2	Thesis seminar 1 tific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time mana tical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digit outline. Rhetorical exercises / presentation skills. Thesis Seminar 2	Z agement. Formal a tal notes, working v Z	2 nd graphic with notes, 2
21XNL1 Introduction, scier design, mathemat 21XNL2 Selected chapters	Thesis seminar 1 tific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time mana tific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time mana tific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time mana tific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time mana titical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digit outline. Rhetorical exercises / presentation skills. Thesis Seminar 2 s from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of r	Z agement. Formal a tal notes, working v Z results. Graphic des	2 nd graphic with notes, 2 sign of the
21XNL1 Introduction, scier design, mathemat 21XNL2 Selected chapters	Thesis seminar 1 ntific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time mana tical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digit outline. Rhetorical exercises / presentation skills. Thesis Seminar 2 s from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of r oted graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetorical	Z agement. Formal a tal notes, working v Z results. Graphic des	2 nd graphic with notes, 2 sign of the
21XNL1 Introduction, scier design, mathemat 21XNL2 Selected chapters work, own and adop	Thesis seminar 1 tific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time mana- tical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digit outline. Rhetorical exercises / presentation skills. Thesis Seminar 2 s from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of r oted graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetorical Specifics of state exams.	Z agement. Formal a tal notes, working v Z esults. Graphic des exercises / presen	2 nd graphic with notes, 2 sign of the itation skills.
21XNL1 Introduction, scier design, mathemat 21XNL2 Selected chapters work, own and adop 21Y2FM	Thesis seminar 1 Thesis Seminar 2 S from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of r Deted graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetorical Specifics of state exams. Aviation Company Financial Management	Z agement. Formal a tal notes, working v Z esults. Graphic des exercises / presen KZ	2 nd graphic with notes, 2 sign of the tation skills. 2
21XNL1 Introduction, scier design, mathemat 21XNL2 Selected chapters work, own and adop 21Y2FM	Thesis seminar 1 tific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time mana- tical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digit outline. Rhetorical exercises / presentation skills. Thesis Seminar 2 s from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of r oted graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetorical Specifics of state exams.	Z agement. Formal a tal notes, working v Z esults. Graphic des exercises / presen KZ	2 nd graphic with notes, 2 sign of the tation skills. 2
21XNL1 Introduction, scier design, mathemat 21XNL2 Selected chapters work, own and adop 21Y2FM	Thesis seminar 1 Thesis Seminar 2 S from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of r Deted graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetorical Specifics of state exams. Aviation Company Financial Management	Z agement. Formal a tal notes, working v esults. Graphic dee exercises / presen KZ urces, depreciation	2 nd graphic with notes, 2 sign of the tation skills. 2
21XNL1 Introduction, scier design, mathemat 21XNL2 Selected chapters work, own and adop 21Y2FM Theories of corpo	Thesis seminar 1 Thesis Seminar 2 Thesis Seminar 2 Thesis Seminar 2 Seminar 2 Set from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of r toted graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetorical Specifics of state exams. Aviation Company Financial Management orate finance - financial statements, budget, forecast. Financial policy of the company. Financial resources - long-term financial resource and content.	Z agement. Formal a tal notes, working v esults. Graphic dee exercises / presen KZ urces, depreciation	2 nd graphic with notes, 2 sign of the tation skills. 2
21XNL1 Introduction, scier design, mathemat 21XNL2 Selected chapters work, own and adop 21Y2FM Theories of corp 21Y2LS	Thesis seminar 1 Thesis seminar 1 tific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time mana tical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digit outline. Rhetorical exercises / presentation skills. Thesis Seminar 2 s from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of r boted graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetorical Specifics of state exams. Aviation Company Financial Management orate finance - financial statements, budget, forecast. Financial policy of the company. Financial resources - long-term financial resou earnings, shares, bonds, loans, leasing, capital. Financial and economic analysis of the company - structure and content. Air Traffic Services	Z agement. Formal a tal notes, working v esults. Graphic dea exercises / presen KZ urces, depreciation KZ	2 nd graphic with notes, 2 sign of the tation skills. 2 , retained 2
21XNL1 Introduction, scier design, mathemat 21XNL2 Selected chapters work, own and adop 21Y2FM Theories of corp 21Y2LS	Thesis seminar 1 Thesis search, databases, critical work with text, digit outline. Rhetorical exercises / presentation skills. Thesis Seminar 2 s from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of r beted graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetorical Specifics of state exams. Aviation Company Financial Management orate finance - financial statements, budget, forecast. Financial policy of the company. Financial resources - long-term financial resou earnings, shares, bonds, loans, leasing, capital. Financial and economic analysis of the company - structure and content. Air Traffic Services in Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, APP	Z agement. Formal a tal notes, working v esults. Graphic dea exercises / presen KZ urces, depreciation KZ a ACC control. His	2 nd graphic with notes, 2 sign of the tation skills. 2 , retained 2
21XNL1 Introduction, scier design, mathemat 21XNL2 Selected chapters work, own and adop 21Y2FM Theories of corp 21Y2LS Airspace structure i	Thesis seminar 1 Thesis search, databases, critical work with text, digit outline. Rhetorical exercises / presentation skills. Thesis Seminar 2 s from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of r bted graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetorical Specifics of state exams. Aviation Company Financial Management orate finance - financial statements, budget, forecast. Financial policy of the company. Financial resources - long-term financial resources Air Traffic Services in Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, APP at USA and Czechoslovakia. ATS - Model of financing. Training Systém of Air Traffic Controllers. Future development of ATS	Z agement. Formal a tal notes, working v esults. Graphic dea exercises / presen KZ urces, depreciation KZ a ACC control. His 5.	2 nd graphic with notes, 2 sign of the itation skills. 2 , retained 2 story of ATS
21XNL1 Introduction, scier design, mathemat 21XNL2 Selected chapters work, own and adop 21Y2FM Theories of corp 21Y2LS Airspace structure i 21Y2MC	Thesis seminar 1 Thesis search, databases, critical work with text, digit outline. Rhetorical exercises / presentation skills. Thesis Seminar 2 s from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of r toted graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetorical Specifics of state exams. Aviation Company Financial Management orate finance - financial statements, budget, forecast. Financial policy of the company. Financial resources - long-term financial resources arrings, shares, bonds, loans, leasing, capital. Financial and economic analysis of the company - structure and content. Air Traffic Services in Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, APP at USA and Czechoslovakia. ATS - Model of financing. Training Systém of Air Traffic Controllers. Future development of ATS CNS Systems Modelling	Z agement. Formal a tal notes, working v esults. Graphic dea exercises / presen KZ urces, depreciation KZ a ACC control. His S. KZ	2 nd graphic with notes, 2 sign of the tation skills. 2 , retained 2 story of ATS 2
21XNL1 Introduction, scier design, mathemat 21XNL2 Selected chapters work, own and adop 21Y2FM Theories of corp 21Y2LS Airspace structure i 21Y2MC	Thesis seminar 1 Thesis search, databases, critical work with text, digit outline. Rhetorical exercises / presentation skills. Thesis Seminar 2 s from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of r toted graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetorical Specifics of state exams. Aviation Company Financial Management orate finance - financial statements, budget, forecast. Financial policy of the company. Financial resources - long-term financial resour earnings, shares, bonds, loans, leasing, capital. Financial and economic analysis of the company - structure and content. Air Traffic Services in Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, APP at USA and Czechoslovakia. ATS - Model of financing. Training Systém of Air Traffic Controllers. Future development of ATS CNS Systems Modelling pred as a set of model tasks in the field of communication navigation and surveillance systems in aviation, addressed using mathema	Z agement. Formal a tal notes, working v esults. Graphic dea exercises / presen KZ urces, depreciation KZ a ACC control. His S. KZ tical approaches a	2 nd graphic with notes, 2 sign of the tation skills. 2 , retained 2 story of ATS 2
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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
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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