# Study plan

# Name of study plan: Master Full-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 full-time Required credits: 120 Elective courses credits: 0 Sum of credits in the plan: 120 Note on the plan:

Name of the block: Compulsory courses Minimal number of credits of the block: 104 The role of the block: Z

Code of the group: 1S-NP-PL-22/23 Name of the group: 1st Sem. Master Full-Time PL from 2022/23 Requirement credits in the group: In this group you have to gain 28 credits Requirement courses in the group: In this group you have to complete 7 courses Credits in the group: 28

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
11APAS	Applied Statistics Evženie Uglickich, Pavla Pecherková Pavla Pecherková	Z,ZK	4	2P+2C+12B	Z	Z
11MMJ	Mathematical Models and their Applications Evženie Uglickich, Pavla Pecherková, Ivan Nagy, Michal Matowicki, Natálie Blahitka <b>Pavla Pecherková</b> Evženie Uglickich (Gar.)	Z,ZK	4	2P+2C+12B	Z	Z
21BILD	Safety Engineering in Aviation Natalia Guskova, Kate ina Grötschelová, Andrej Lališ Kate ina Grötschelová	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 Peter Vittek Peter Vittek	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
	ne courses of this group of Study Plan: Code=1S-NP-PL-22/23 Na	ame=1st Sen	n. Master			
11APAS A	Applied Statistics			Z	Z.ZK	4
					· I	•
Descriptive statistics, data	preprocessing, discretize continuous data. Hypothesis testing - continuous and discrete v	•				ble method
Descriptive statistics, data - multiple regression analy	preprocessing, discretize continuous data. Hypothesis testing - continuous and discrete v vsis, logistic regression analysis, ROC curve, MANOVA, PCA, Factor analysis. Power ana	•		g and evalua	ation of hte exp	ble method periment.
Descriptive statistics, data - multiple regression analy 11MMJ	preprocessing, discretize continuous data. Hypothesis testing - continuous and discrete v rsis, logistic regression analysis, ROC curve, MANOVA, PCA, Factor analysis. Power ana Mathematical Models and their Applications	alysis, preparation	n, processing	g and evalua	ation of hte exp	ble method periment. 4
Descriptive statistics, data - multiple regression analy 11MMJ   N System. Regression, discu	preprocessing, discretize continuous data. Hypothesis testing - continuous and discrete v rsis, logistic regression analysis, ROC curve, MANOVA, PCA, Factor analysis. Power ana Mathematical Models and their Applications rete and logistic models. Bayesian estimation of model parameters. Parameter estimation	alysis, preparation	n, processing sion, discre	g and evalua Z te and logist	ation of hte exp 2,ZK	ble method periment. 4 ssification
Descriptive statistics, data - multiple regression analy 11MMJ IN System. Regression, discu with logistic model. One-s	preprocessing, discretize continuous data. Hypothesis testing - continuous and discrete v vsis, logistic regression analysis, ROC curve, MANOVA, PCA, Factor analysis. Power ana Mathematical Models and their Applications rete and logistic models. Bayesian estimation of model parameters. Parameter estimation tep and multi-step prediction with regression and discrete models. State model. State est	alysis, preparation	n, processing sion, discre	g and evalua Z te and logist I with regres	ation of hte exp <b>Z,ZK</b> tic models. Cla sion and discr	ble method periment. 4 ssification ete models
Descriptive statistics, data - multiple regression analy 11MMJ N System. Regression, discu with logistic model. One-s 21BILD S	preprocessing, discretize continuous data. Hypothesis testing - continuous and discrete v rsis, logistic regression analysis, ROC curve, MANOVA, PCA, Factor analysis. Power ana Mathematical Models and their Applications rete and logistic models. Bayesian estimation of model parameters. Parameter estimation tep and multi-step prediction with regression and discrete models. State model. State est Safety Engineering in Aviation	alysis, preparation of normal regres imation. Kalman f	n, processing ssion, discre filter. Contro	g and evalua	ation of hte exp Z,ZK tic models. Cla ssion and discr Z,ZK	ble method periment. 4 ssification ete models 4
Descriptive statistics, data - multiple regression analy 11MMJ   N System. Regression, discr with logistic model. One-s 21BILD   S The course is focused on	preprocessing, discretize continuous data. Hypothesis testing - continuous and discrete v rsis, logistic regression analysis, ROC curve, MANOVA, PCA, Factor analysis. Power ana Mathematical Models and their Applications rete and logistic models. Bayesian estimation of model parameters. Parameter estimation tep and multi-step prediction with regression and discrete models. State model. State est Safety Engineering in Aviation understanding the issue of safety, learning how to assess new systems in terms of safety	alysis, preparation of normal regres imation. Kalman f and acquiring pr	n, processing ssion, discre filter. Contro	g and evalua	ation of hte exp Z,ZK tic models. Cla ssion and discr Z,ZK	ble method periment. 4 ssification ete models 4
Descriptive statistics, data - multiple regression analy 11MMJ N System. Regression, discri- with logistic model. One-s 21BILD S The course is focused on explaining accidents and	preprocessing, discretize continuous data. Hypothesis testing - continuous and discrete v rsis, logistic regression analysis, ROC curve, MANOVA, PCA, Factor analysis. Power ana Mathematical Models and their Applications rete and logistic models. Bayesian estimation of model parameters. Parameter estimation tep and multi-step prediction with regression and discrete models. State model. State est Safety Engineering in Aviation understanding the issue of safety, learning how to assess new systems in terms of safety ncident causes and bridge their theoretical knowledge with practical problems of air trans-	alysis, preparation of normal regres imation. Kalman f and acquiring pr	n, processing ssion, discre filter. Contro	g and evalua Z Z te and logist I with regres Z afety manag	tion of hte exp ,ZK   tic models. Cla sion and discr ,ZK   gement. Stude	ble method eriment. 4 ssification ete models 4 nts will lear
Descriptive statistics, data multiple regression analy 11MMJ N System. Regression, discu with logistic model. One-s 21BILD S The course is focused on explaining accidents and in 21CNSS (	preprocessing, discretize continuous data. Hypothesis testing - continuous and discrete v rsis, logistic regression analysis, ROC curve, MANOVA, PCA, Factor analysis. Power ana Mathematical Models and their Applications rete and logistic models. Bayesian estimation of model parameters. Parameter estimation tep and multi-step prediction with regression and discrete models. State model. State est Safety Engineering in Aviation understanding the issue of safety, learning how to assess new systems in terms of safety ncident causes and bridge their theoretical knowledge with practical problems of air trans CNS Systems	alysis, preparation of normal regres imation. Kalman f and acquiring pr sport.	i, processing sion, discre filter. Contro inciples of s	g and evalua Z z te and logist I with regres Z afety manag	tion of hte exp Z,ZK   tic models. Cla sion and discr Z,ZK   gement. Stude Z,ZK	ble method beriment. 4 ssification ete models 4 nts will lear 5
Descriptive statistics, data multiple regression analy 11MMJ N System. Regression, discu with logistic model. One-s 21BILD S The course is focused on explaining accidents and i 21CNSS ( Course provides full techn	preprocessing, discretize continuous data. Hypothesis testing - continuous and discrete v vsis, logistic regression analysis, ROC curve, MANOVA, PCA, Factor analysis. Power ana Mathematical Models and their Applications rete and logistic models. Bayesian estimation of model parameters. Parameter estimation tep and multi-step prediction with regression and discrete models. State model. State est Bafety Engineering in Aviation understanding the issue of safety, learning how to assess new systems in terms of safety ncident causes and bridge their theoretical knowledge with practical problems of air trans CNS Systems ical informations about CNS (communication, navigation, surveilance) systems used in av	alysis, preparation of normal regres imation. Kalman f and acquiring pr sport.	i, processing sion, discre filter. Contro inciples of s	g and evalua Z te and logist I with regres afety managed Z d in perspect	tion of hte exp ,ZK   tic models. Cla sion and discr ,ZK   gement. Stude ,ZK   tive of future d	ble method beriment. 4 ssification ete models 4 nts will lear 5 evelopmer
Descriptive statistics, data - multiple regression analy 11MMJ N System. Regression, discu with logistic model. One-s 21BILD S The course is focused on explaining accidents and i 21CNSS C Course provides full techn 21LETS A	preprocessing, discretize continuous data. Hypothesis testing - continuous and discrete v vsis, logistic regression analysis, ROC curve, MANOVA, PCA, Factor analysis. Power ana Mathematical Models and their Applications rete and logistic models. Bayesian estimation of model parameters. Parameter estimation tep and multi-step prediction with regression and discrete models. State model. State est Bafety Engineering in Aviation understanding the issue of safety, learning how to assess new systems in terms of safety ncident causes and bridge their theoretical knowledge with practical problems of air trans CNS Systems ical informations about CNS (communication, navigation, surveilance) systems used in av Nirport	alysis, preparation of normal regres imation. Kalman f v and acquiring pr sport. viation. Systems a	n, processing ssion, discre filter. Contro rinciples of s are presente	g and evalua Z z te and logist I with regres afety manage Z d in perspec	ation of hte exp       Z,ZK       Lic models. Cla       ssion and discr       Z,ZK       gement. Stude       Z,ZK       L,ZK       Litive of future d       Z,ZK	ble method periment. 4 ssification ete models 4 nts will lea 5 evelopmer 4
Descriptive statistics, data - multiple regression analy 11MMJ N System. Regression, discu with logistic model. One-s 21BILD S The course is focused on explaining accidents and i 21CNSS C Course provides full techn 21LETS A Methods of designing new	preprocessing, discretize continuous data. Hypothesis testing - continuous and discrete v vsis, logistic regression analysis, ROC curve, MANOVA, PCA, Factor analysis. Power ana Mathematical Models and their Applications rete and logistic models. Bayesian estimation of model parameters. Parameter estimation tep and multi-step prediction with regression and discrete models. State model. State est Bafety Engineering in Aviation understanding the issue of safety, learning how to assess new systems in terms of safety ncident causes and bridge their theoretical knowledge with practical problems of air trans CNS Systems ical informations about CNS (communication, navigation, surveilance) systems used in av	alysis, preparation of normal regres imation. Kalman f v and acquiring pr sport. viation. Systems a structure. Airport	a, processing ssion, discre filter. Contro rinciples of s are presente economics.	g and evalua Z z te and logist with regress afety manage z d in perspect Detailed log	ation of hte exp       Z,ZK       Lic models. Cla       ssion and discr       Z,ZK       gement. Stude       Z,ZK       Litive of future d       Z,ZK       Litive of future d       Z,ZK	ble method eriment. 4 ssification ete model: 4 nts will lea 5 evelopment 4 opment of

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

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

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
21AFM	Air Traffic Management Jakub Kraus, Terézia Pilmannová, Martina Hlavatá <b>Jakub Kraus</b> Jakub Kraus (Gar.)	Z,ZK	5	3P+2C+16B	L	Z
21MULD	Managerial Challenges in Air Transport Peter Vittek Peter Vittek 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.)	КZ	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-NP-PL-22/23 Name=2nd Sem. Master Full-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	ata applications.
21MULD	Managerial Challenges in Air Transport	Z,ZK	5
The course contains a l	st 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	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	of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and	working of aerosp	ace engineering.
General legalities are in	the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and t	hey are practical	illustration of its
security in The Czech F	olice Aviation Department.		
21PAM1	Programming and Modelling 1	KZ	5
Harmonic signals, their	generation. Real signals, sampling theorem, aliasing. Signal filtering. Fourier transform (FT), discrete Fourier transform (DFT	), fast Fourier trar	nsform (FFT).
Spectrum estimation, s	pectral power density. Image - basic processing methods, 2D Fourier transform, noise filtering, edge detection, linear and nor	-linear methods,	brightness
transforms, geometric t	ansforms, 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-NP-PL-23/24

Name of the group: 3rd Sem. Bachelor Full-Time PL from 2023/24 Requirement credits in the group: In this group you have to gain 26 credits

Requirement courses in the group: In this group you have to complete 7 cou	rses
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Credits in the group: 26

Note on the group:

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

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 Operations Miloš Strouhal Miloš Strouhal	Z,ZK	5	3P+2C+16B	Z	Z
21PAM2	Programming and Modelling 2 Vladimír Socha, Lenka Hanáková Vladimír Socha	KZ	5	2P+4C+16B	Z	Z
21LIA1	Aviation Engineering English 1 Jitka He manová, Dana Boušová 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
	courses of this group of Study Plan: Code=3S-NP-PL-23/24 Na	ame=3rd Sen	n. Bache		7	
	thematical methods for data analysis	<b>D</b>		· · ·	ZK	4
	on, prediction, filtration, control, methods of data analysis - k-means, DBSCAN, naive	Bayes, decision	trees, supp			
	vigation and Flight Control Systems	6 61: l- t		Z,	ZK	5
	Satellite navigation. Flight management system. Autopilot. FMC. Practical execution o	n night.		7	71/	
	Carrier Operations	ot otructure. Fuel			ZK	5
	r transport. Legislation. Airlines - structure, strategy. Performances in air transport. Co s of aircraft operation. Ground handling and other services. Safety / Security / Quality		•	•		
and environment.	s of anotait operation. Ground handling and other services, dalety / Security / Quality		monitoring	. Revenue ma	lagement. /	
	pgramming and Modelling 2			L	۲Z	5
	al statistical analysis. Statistical hypothesis testing. Analysis of variance (ANOVA), one	-factor two-facto	r ANO\/A			-
•	elation coefficient. Non-linear regression models, procedure for regression analysis of			•		
•	WM classifiers. Decision trees.				5	
	ation Engineering English 1				7	3
	es of the language exercises and are focused on the following topics - EUR-Lex and E	uropean Legislat	ion, ICAO	Annexes and S	ARPs, AM	-
	ident investigation, Aircraft Airworthiness, Aircraft documentations and manuals, Med					,
21XNL1 The	esis seminar 1				Z	2
	ations, publications devoted to scientific writing, grey literature, difference between bac	chelor and maste	r thesis. Ti	ne manageme	nt. Formal a	and graphic
design, mathematical typese	tting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, da	atabases, critical	work with t	ext, digital note	es, working	with notes,
outline. Rhetorical exercises	/ presentation skills.					
15JBA3 Lar	nguage - English 3				Z	2
1	echnical discourse and style; Analysis of expert texts and their production; Preparation	n for overseas wo	rk engagei	ment.Optional	courses for	certificates
FCE, CAE.						

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

Name of the group: 4th Sem. Bachelor Full-Time PL from 2023/24 Requirement credits in the group: In this group you have to gain 24 credits Requirement courses in the group: In this group you have to complete 9 courses Credits in the group: 24

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
21ELEG	European Aviation Legislation Radoslav Zozu ák Peter Vittek (Gar.)	ZK	3	2P+0C+8B	6 L	Z
21KST	Space Technology Jakub Hospodka, Jakub Trýb <b>Jakub Hospodka</b> 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 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	s 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 Andrej Lališ, 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-NP-PL-23/24 Name=4th Sem. Bachelor Full-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 Martin Langr, 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 Mik, P emysl Toman	Z	2	0P+2C+8B	L	ZP
17XN2	Master Project 2 Václav Baroch, Michal Drábek, Alexandra Dvo á ková, Veronika Faifrová, Rudolf Franz Heidu, Tomáš Horák, Vít Janoš, Milan K íž, Olga Mertlová, Vít Janoš (Gar.)	z	2	0P+2C+8B	L	ZP
18XN2	Master Project 2 Daniel Kytý, Nela Kr má ová, Petr Koudelka, Tomáš Fíla Daniel Kytý	Z	2	0P+2C+8B	L	ZP
20XN2	Master Project 2 Martin Langr, Milan Sliacky, Ji í R ži ka, Patrik Horaž ovský, Pavel Hrubeš	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 P ibyl, Jan P ikryl <b>Jana Kuklová</b> Bohumil Ková (Gar.)	Z	2	0P+2C+8B	Z	ZP
12XN3L	Master Project 3 for study programme PL	Z	2	0P+2C+8B	Z	ZP
14XN3L	Master Project 3 for study programme PL Vít Fábera Vít Fábera (Gar.)	Z	2	0P+2C+8B	Z	ZP
15XN3L	Master Project 3 for study programme PL	Z	2	0P+2C+8B	Z	ZP
16XN3L	Master Project 3 for study programme PL	Z	2	0P+2C+8B	Z	ZP
17XN3L	Master Project 3 for study programme PL	Z	2	0P+2C+8B	Z	ZP
18XN3L	Master Project 3 for study programme PL	Z	2	0P+2C+8B	Z	ZP
20XN3L	Master Project 3 for study programme PL	Z	2	0P+2C+8B	Z	ZP
21XN3L	Master Project 3 for study programme PL Natalia Guskova, Kate ina Grötschelová, Andrej Lališ, Stanislav Pleninger, Jakub Steiner, Jakub Kraus, Slobodan Stoji, Peter Vittek, Terézia Pilmannová,	Z	2	0P+2C+8B	Z	ZP
22XN3L	Master Project 3 for study programme PL	Z	2	0P+2C+8B	Z	ZP
23XN3L	Master Project 3	Z	2	0P+2C+8B	Z	ZP
11XN4L	Master Project 4 for study programme PL Jana Kuklová	Z	2	0P+5C+8B	L	ZP
12XN4L	Master Project 4 for study programme PL	Z	2	0P+5C+8B	L	ZP
14XN4L	Master Project 4 for study programme PL Vít Fábera, Tomáš Brandejský, Mária Jánešová, Jan Zelenka	Z	2	0P+5C+8B	L	ZP
15XN4L	Master Project 4 for study programme PL	Z	2	0P+5C+8B	L	ZP
16XN4L	Master Project 4 for study programme PL	Z	2	0P+5C+8B	L	ZP
17XN4L	Master Project 4 for study programme PL	Z	2	0P+5C+8B	L	ZP
18XN4L	Master Project 4 for study programme PL	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-NP-PL-22/23

Name of the group: Comp. Sel. Courses Master Full-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	group:	
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Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
00Y2XN	Active participation in a scientific project, workshop, short-term trip abroad Patrik Horaž ovský Patrik Horaž ovský (Gar.)	КZ	2	2P+0C		PV
21Y2BS	Unmanned aircraft systems 2 Tomáš Tlu ho, Michal erný Jakub Kraus	KZ	2	2P+0C+8B	Z	PV
21Y2CR	CRM Ladislav Capoušek	KZ	2	2P+0C+8B	L	PV
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

Methods and Procedures of Aircraft Accident Investigation Michal Frydrýn, Karel Mündel Karel Mündel (Gar.)	ΚZ	2	2P+0C	L	PV
CNS Systems Modelling Stanislav Pleninger Stanislav Pleninger	KZ	2	2P+0C+8B	Z	PV
Law and Operation in Air Transport Radoslav Zozu ák	KZ	2	2P+0C+8B	L	PV
Aircraft Maintenance Kate ina Stuchlíková	KZ	2	2P+0C+8B	L	PV
Artificial Intelligence	KZ	2	2P+0C+8B	Z,L	PV
Selected Chapters of Aerodynamics	KZ	2	2P+0C+8B	L	PV
Basic Principles of English Academic Writing and Abstract in English Dana Boušová	KZ	2	2P+0C	Z	PV
	Michal Frydrýn, Karel Mündel Karel Mündel (Gar.)         CNS Systems Modelling Stanislav Pleninger Stanislav Pleninger         Law and Operation in Air Transport Radoslav Zozu ák         Aircraft Maintenance Kate ina Stuchlíková         Artificial Intelligence         Selected Chapters of Aerodynamics         Basic Principles of English Academic Writing and Abstract in English	Michal Frydrýn, Karel Mündel Karel Mündel (Gar.)       KZ         CNS Systems Modelling Stanislav Pleninger Stanislav Pleninger       KZ         Law and Operation in Air Transport Radoslav Zozu ák       KZ         Aircraft Maintenance Kate ina Stuchlíková       KZ         Artificial Intelligence       KZ         Selected Chapters of Aerodynamics       KZ         Basic Principles of English Academic Writing and Abstract in English       KZ	Michal Frydrýn, Karel Mündel Karel Mündel (Gar.)KZ2CNS Systems Modelling Stanislav Pleninger Stanislav PleningerKZ2Law and Operation in Air Transport Radoslav Zozu ákKZ2Aircraft Maintenance Kate ina StuchlíkováKZ2Artificial IntelligenceKZ2Selected Chapters of AerodynamicsKZ2Basic Principles of English Academic Writing and Abstract in EnglishKZ2	Michal Frydrýn, Karel Mündel Karel Mündel (Gar.)CKZ221 +00 +CNS Systems Modelling Stanislav Pleninger Stanislav PleningerKZ22P+0C+8BLaw and Operation in Air Transport Radoslav Zozu ákKZ22P+0C+8BAircraft Maintenance Kate ina StuchlíkováKZ22P+0C+8BArtificial IntelligenceKZ22P+0C+8BSelected Chapters of AerodynamicsKZ22P+0C+8BBasic Principles of English Academic Writing and Abstract in EnglishKZ22P+0C+8B	Michal Frydrýn, Karel Mündel Karel Mündel (Gar.)KZZZI +0CLCNS Systems Modelling Stanislav Pleninger Stanislav PleningerKZ22P+0C+88ZLaw and Operation in Air Transport Radoslav Zozu ákKZ22P+0C+88LAircraft Maintenance Kate ina StuchlíkováKZ22P+0C+88LArtificial IntelligenceKZ22P+0C+88LSelected Chapters of AerodynamicsKZ22P+0C+88LBasic Principles of English Academic Writing and Abstract in EnglishKZ22P+0CZ

00Y2XN	Active participation in a scientific project, workshop, short-term trip abroad	KZ	2
21Y2BS	Unmanned aircraft systems 2	KZ	2
Modern trends in u	nmanned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. F	lights beyond the applic	able legislatior
21Y2CR	CRM	KZ	2
Introduction to CRI	M. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on	the human body. Fatigu	e Sleep &
Vigilance. Informat	tion Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership & amp; Team H	Behaviour. Automation.	
21Y2FM	Aviation Company Financial Management	KZ	2
Theories of corpor	ate finance - financial statements, budget, forecast. Financial policy of the company. Financial resources - long-term financia	l resources, depreciatio	n, retained
earnings, shares, b	bonds, loans, leasing, capital. Financial and economic analysis of the company - structure and content.		
21Y2LS	Air Traffic Services	KZ	2
Airspace structure	in Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of T	WR, APP a ACC contro	I. History of AT
at USA and Czech	oslovakia. ATS - Model of financing. Training Systém of Air Traffic Controllers. Future development of ATS.		
21Y2MQ	Quality Management	KZ	2
History, basic defin	nition. Pioneers in the field of quality. International quality organisations and quality promotion in the Czech Republic. Quality	management system. E	invironmental
management syste	ems. Integrated management systems. Risk management in the context of the requirements of ISO standards. Sectoral quality	management systems.	Comprehensiv
quality manageme	nt, 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 marketing tools and process	sses for analysis, strate	gy developmer
and implementatio	n of sales of goods and services in the aviation industry. In addition to the theoretical foundations of marketing, the lectures p	present systems of mar	ket, competitic
		or of or man	· ·
and product analys	sis, creation of marketing strategies and planning.		, i
		KZ	2
22Y2MN	sis, creation of marketing strategies and planning.	KZ	2
22Y2MN Expanding knowle	sis, creation of marketing strategies and planning. Methods and Procedures of Aircraft Accident Investigation	KZ	2
22Y2MN Expanding knowle	sis, creation of marketing strategies and planning.  Methods and Procedures of Aircraft Accident Investigation dge of practical procedures in aircraft accident investigation. Equipment and organisation of the investigation team. Examples	KZ	2
22Y2MN Expanding knowled the Czech Republi 21Y2MC	sis, creation of marketing strategies and planning. Methods and Procedures of Aircraft Accident Investigation dge of practical procedures in aircraft accident investigation. Equipment and organisation of the investigation team. Examples c and abroad and analysis of published final reports. Examples of the preparation of the final report of an air accident investigation.	s of aircraft accident inv gation.	2 restigations in 2
22Y2MN Expanding knowled the Czech Republi 21Y2MC The course is desig	sis, creation of marketing strategies and planning. Methods and Procedures of Aircraft Accident Investigation dge of practical procedures in aircraft accident investigation. Equipment and organisation of the investigation team. Examples c and abroad and analysis of published final reports. Examples of the preparation of the final report of an air accident investig CNS Systems Modelling	s of aircraft accident inv gation.	2 restigations in 2
22Y2MN Expanding knowled the Czech Republi 21Y2MC The course is desig	sis, creation of marketing strategies and planning.  Methods and Procedures of Aircraft Accident Investigation dge of practical procedures in aircraft accident investigation. Equipment and organisation of the investigation team. Examples c and abroad and analysis of published final reports. Examples of the preparation of the final report of an air accident investig CNS Systems Modelling gned as a set of model tasks in the field of communication navigation and surveillance systems in aviation, addressed using i	s of aircraft accident inv gation.	2 restigations in 2
22Y2MN Expanding knowled the Czech Republi 21Y2MC The course is design tools. A large part i 21Y2PP	sis, creation of marketing strategies and planning.  Methods and Procedures of Aircraft Accident Investigation dge of practical procedures in aircraft accident investigation. Equipment and organisation of the investigation team. Examples c and abroad and analysis of published final reports. Examples of the preparation of the final report of an air accident investig CNS Systems Modelling gned as a set of model tasks in the field of communication navigation and surveillance systems in aviation, addressed using r is devoted to air targets tracking, measurement-to-track association, track filtering and multisensor tracking.	KZ s of aircraft accident inv gation. KZ mathematical approach	2 vestigations in 2 es and softwar 2
22Y2MN Expanding knowled the Czech Republi 21Y2MC The course is desig tools. A large part i 21Y2PP Development of av	sis, creation of marketing strategies and planning. Methods and Procedures of Aircraft Accident Investigation dge of practical procedures in aircraft accident investigation. Equipment and organisation of the investigation team. Examples c and abroad and analysis of published final reports. Examples of the preparation of the final report of an air accident investig CNS Systems Modelling gned as a set of model tasks in the field of communication navigation and surveillance systems in aviation, addressed using is devoted to air targets tracking, measurement-to-track association, track filtering and multisensor tracking. Law and Operation in Air Transport	KZ s of aircraft accident inv gation. KZ mathematical approach KZ e organisations. EU legi	2 restigations in 2 es and softwar 2 slation and civ
22Y2MN Expanding knowled the Czech Republi 21Y2MC The course is design tools. A large part i 21Y2PP Development of av aviation. Execution	sis, creation of marketing strategies and planning. Methods and Procedures of Aircraft Accident Investigation dge of practical procedures in aircraft accident investigation. Equipment and organisation of the investigation team. Examples c and abroad and analysis of published final reports. Examples of the preparation of the final report of an air accident investig CNS Systems Modelling gned as a set of model tasks in the field of communication navigation and surveillance systems in aviation, addressed using is devoted to air targets tracking, measurement-to-track association, track filtering and multisensor tracking. Law and Operation in Air Transport riation law. International conventions on civil aviation. International organisations and including of the Czech Republic in these	KZ s of aircraft accident inv gation. KZ mathematical approach KZ e organisations. EU legi	2 restigations in 2 es and softwar 2 slation and civ
22Y2MN Expanding knowled the Czech Republi 21Y2MC The course is design tools. A large part i 21Y2PP Development of av aviation. Execution passengers, lugga	sis, creation of marketing strategies and planning. Methods and Procedures of Aircraft Accident Investigation dge of practical procedures in aircraft accident investigation. Equipment and organisation of the investigation team. Examples c and abroad and analysis of published final reports. Examples of the preparation of the final report of an air accident investig CNS Systems Modelling gned as a set of model tasks in the field of communication navigation and surveillance systems in aviation, addressed using is devoted to air targets tracking, measurement-to-track association, track filtering and multisensor tracking. Law and Operation in Air Transport viation law. International conventions on civil aviation. International organisations and including of the Czech Republic in these of state administration and state supervision in matters of civil aviation, in accordance with Act No. 49/1997 Col. Facilitation.	KZ s of aircraft accident inv gation. KZ mathematical approach KZ e organisations. EU legi	2 restigations in 2 es and softwar 2 slation and civ
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Name of the block: Elective courses Minimal number of credits of the block: 0 The role of the block: V

Code of the group: VP-NP-PL Name of the group: Master Full-Time PL voluntary Requirement credits in the group: Requirement courses in the group: Credits in the group: 0 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
15JCZ1	Czech Language for Foreign Students 1	Z	0	0P+2C	Z	V
15JCZ2	Czech Language for Foreign Students 2 Irena Veselková	Z	0	0P+2C	L	V
15JCZ3	Czech Language for Foreign Students 3 Irena Veselková	Z		0P+2C	Z	V
15JCZ4	Czech Language for Foreign Students 4 Irena Veselková	Z		0P+2C	L	V

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

15JCZ1	Czech Language for Foreign Students 1	Z	0			
Basic structures of Cze	ch language, common communication situations, study, work, leisure time activities, introduction of myself, phonetics of Czec	ch language, writi	ng skills.			
15JCZ2	Czech Language for Foreign Students 2	Z	0			
Basic structures of Cze	ch language, common communication situations, study, work, leisure time activities, introduction of myself, phonetics of Czec	ch language, writi	ng skills.			
15JCZ3	Czech Language for Foreign Students 3	Z				
Language structures w	Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology.					
15JCZ4	Czech Language for Foreign Students 4	Z				
Language structures w	th regard to the group level. Listening and oral fluency drill. Basic terminology.	•	•			

## List of courses of this pass:

	Name of the course	Completion	Credits
00Y2XN	Active participation in a scientific project, workshop, short-term trip abroad	KZ	2
11APAS	Applied Statistics	Z,ZK	4
Descriptive statistics, dat	a preprocessing, discretize continuous data. Hypothesis testing - continuous and discrete variables. Regression and corre	elation analysis. Multivarial	ble methods
- multiple regression ar	alysis, logistic regression analysis, ROC curve, MANOVA, PCA, Factor analysis. Power analysis, preparation, processir	ng and evaluation of hte ex	kperiment.
11MMJ	Mathematical Models and their Applications	Z,ZK	4
	crete and logistic models. Bayesian estimation of model parameters. Parameter estimation of normal regression, discre		
	step and multi-step prediction with regression and discrete models. State model. State estimation. Kalman filter. Control		ete models
11MMOA	Mathematical methods for data analysis	Z,ZK	4
	elling, estimation, prediction, filtration, control, methods of data analysis - k-means, DBSCAN, naive Bayes, decision tree		
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
	cedures and tools, static and dynamic models. BPMN language, syntax and semantics, process flows. Implementation	of practical examples, As-	Is, To-Be,
14XN1	optimization and evaluation.		
14XN1 14XN2	optimization and evaluation. Master Project 1	Z	2
14XN2	optimization and evaluation. Master Project 1 Master Project 2	Z Z	2
14XN2 14XN3L	optimization and evaluation. Master Project 1 Master Project 2 Master Project 3 for study programme PL	Z Z Z	2 2 2
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The course is focused on understanding the issue of safety, learning how for assess new systems in terms of safety and acquiring principles of safety management. Students will lear explaining accidents and incident causes and bridge their theoretical knowledge with practical problems of air transport.         21CNSS       CNS Systems       Z,ZK       5         20urse provides full technical informations about CNS (communication, navigation, surveilance) systems used in aviation. Systems are presented in perspective of thure development       2,ZK       3         ac content of the subject "European Aviation Legislation" is the legal regulation of air operation, the system and structure of the national and European legal system, the legal effect of EU legal acts in the Czech national environment and their impact on national regulation with a focus on requirements and order space. Space transport whicles. Rockets and transportation.       2K       3         21KST       Space Technology       ZK       3         21LETS       Space Technology       Z,K       4         Wethods of designing new airports and developing existing ones. Connection of the airport to the surrounding infrastructure. Airport economics. Detailed look at the development or movement areas. Certification of airside movement areas and procedures according to EASA CS-ADR-DSN. Development planning - design, preparation and regulatory basis.       2       3         21LIA1       Aviation Engineering English 1       Z       3       3         21LIA2       Aviation Engineering English 2       Xi       3				
21CNSS         CNS Systems         Z,ZK         5           Course provides full technical informations about CNS (communication, navigation, surveilance) systems used in aviation. Systems are presented in perspective of future development           21ELG         European Aviation Legislation' is the legal regulation of air operation, the system and structure of the national and European legal system, the legal effect         fe U legal acts in the Czech national environment and their impact on national regulation with a focus on requirements and criteria of individual regulations on aviation transport an transportation.           21KST         Space Technology         ZK         3           Iniverse and its basic characteristics. Fundamentals of astrophysics. Space ration and satellites, space flight. Orbital mechanics. Application of space technologies for global navigation and communication. Space exploration and piloted space flights and missions.         Z/ZK         4           21LETS         Airport         Z/ZK         4           Wethods of designing new airports and developing existing ones. Connection of the airport to the surrounding infrastructure. Airport economics. Detailed look at the development on movement areas. Certification of airside movement areas and procedures according to EASA CS-ADR-DSN. Development planning - design, preparation and regulatory basis. Environmental aspects of airport operations.         Z/ZK         4           21LIAT         Aviation Engineering English 1         Z         3         3           Lectures include various types of the language exercises and are focused on the		ed on understanding the issue of safety, learning how to assess new systems in terms of safety and acquiring principles of safety ma	,	nts will learr
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Iniverse and its basic characteristics. Fundamentals of astrophysics. Kepler's laws. Solar system. Earth's and its atmosphere and outer space. Space transport vehicles. Rockets ar rocket engines and their structure and operational characteristics. Space erafts and satellites, space flight. Orbital mechanics. Application of space technologies for global navigation and communication. Space exploration and piloted space flights and missions.         21LETS       Airport       Z,ZK       4         Methods of designing new airports and developing existing ones. Connection of the airport to the surrounding infrastructure. Airport economics. Detailed look at the development or movement areas. Certification of airside movement areas and procedures according to EASO CS-APR-DSN. Development planning - design, preparation and regulatory basis. Environmental aspects of airport operations.       Z       3         21LLA1       Aviation Engineering English 1       Z       3         Lectures include various types of the language exercises and are focused on the following topics - FUR-Lex and European Legislation, ICAO Annexes and SARPs, AMCs and GMs Civil Aviation Autorities, Accident investigation, Aircraft Airworthiness, Aircraft documentations and manuals, Medical certification, Emergency response plan.       Z       3         21LLA2       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, EUROCONTROL, Airport Council International, International Air Transport Association, Airport Engineering, Airline business, Future development in civil aviation.       ZK       3 <td>21KST</td> <td></td> <td>7K</td> <td>3</td>	21KST		7K	3
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movement areas. Certification of airside movement areas and procedures according to EASA CS-ADR-DSN. Development planning - design, preparation and regulatory basis.         21LIA1       Aviation Engineering English 1       Z       3         Lectures include various types of the language exercises and are focused on the following topics - EUR-Lex and European Legislation, ICAO Annexes and SARPs, AMCs and GMs Civil Aviation Authorities, Accident investigation, Aircraft Airworthiness, Aircraft documentations and manuals, Medical certification, Emergency response plan.         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, EUROCONTROL, Airport Council International, International Air Transport Association, Airport Engineering, Airline business, Future development in civil aviation.       ZK       3         21LIPZP       Air Taffic 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 respect to the environment, current issues, threats and solutions.       ZZK       5         The course contains a list of basic managerial tasks in aviation. The basic managerial tasks are quality assurance and operational safety, marketing operations, marketing context implementation, airline network management, fleet management and revenue management.       Z,ZK       5         The course contains a list of basic managerial tasks in aviation. The basic				1
Environmental aspects of airport operations.       Z       3         21LIA1       Aviation Engineering English 1       Z       3         Lectures include various types of the language exercises and are focused on the following topics - EUR-Lex and European Legislation, ICAO Annexes and SARPs, AMCs and GMs Civil Aviation Authorities, Accident investigation, Aircraft Airworthiness, Aircraft documentations and manuals, Medical certification, Emergency response plan.         21LIA2       Aviation Engineering English 2       KZ       3         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, EUROCONTROL, Airport Council International, International Air Transport Association, Airport Engineering, Airline business, Future development in civil aviation.       XI       3         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 respect to the environment, current issues, threats and solutions.       Z,ZK       5         21MULD       Managerial Challenges in Air Transport       Z,ZK       5         The course contains a list of basic manageriant tasks in aviation. The basic management. The core disciplines also include project management, cost management and project resource planning and management.       Z,ZK       5<				
Lectures include various types of the language exercises and are focused on the following topics - EUR-Lex and European Legislation, ICAO Annexes and SARPs, AMCs and GMs         Civil Aviation Authorities, Accident investigation, Aircraft Airworthiness, Aircraft documentations and manuals, Medical certification, Emergency response plan.         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, EUROCONTROL, Airport Council International, International Air Transport Association, Airport Engineering, Airline business, Future development in civil aviation.         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 respect to the environment, current issues, threats and solutions.       Z,ZK       5         21MULD       Managerial Challenges in Air Transport       Z,ZK       5         The course contains a list of basic managerial tasks in aviation. The basic management.       The core disciplines also include project management, cost management and revenue management.       Z,ZK       5         21NSR       Navigation and Flight Control Systems       Z,ZK       5         Navigation. Radionavigation. Satellite navigation. Flight management system. Autopilot. FMC. Practical execution of flight.       5         10       New Tren			ation and regulate	bry basis.
Lectures include various types of the language exercises and are focused on the following topics - Aviation associations, ISAGO and IGOM, EUROCONTROL, Airport Council International, International Air Transport Association, Airport Engineering, Airline business, Future development in civil aviation.         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 respect to the environment, current issues, threats and solutions.       Z,ZK       5         21MULD       Managerial Challenges in Air Transport       Z,ZK       5         The course contains a list of basic managerial tasks in aviation. The basic managerial tasks are quality assurance and operational safety, marketing operations, marketing context implementation, airline network management, fleet management and revenue management. The core disciplines also include project management, cost management and project resource planning and management.       Z,ZK       5         21NSR       Navigation and Flight Control Systems       Z,ZK       5         Navigation. Radionavigation. Satellite navigation. Flight management system. Autopilot. FMC. Practical execution of flight.       3         21NTLE       New Trends in Aviation Technologies       KZ       3         The course includes an introduction to all the technologies that are currently important to aviation, such as new aircraft design concepts, new types of propulsion, and new types of	Lectures include va	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,
The course is about ecology, sustainable development, ecological stability, environmental protection and environmental legislation. It also focuses on air traffic with respect to the environment, current issues, threats and solutions.         21MULD       Managerial Challenges in Air Transport       Z,ZK       5         The course contains a list of basic managerial tasks in aviation. The basic managerial tasks are quality assurance and operational safety, marketing operations, marketing context implementation, airline network management, fleet management and revenue management. The core disciplines also include project management, cost management and project resource planning and management.         21NSR       Navigation and Flight Control Systems       Z,ZK       5         Navigation. Radionavigation. Satellite navigation. Flight management system. Autopilot. FMC. Practical execution of flight.       KZ       3         The course includes an introduction to all the technologies that are currently important to aviation, such as new aircraft design concepts, new types of propulsion, and new types of       KZ       3	1	e various types of the language exercises and are focused on the following topics - Aviation associations, ISAGO and IGOM, EUROC	CONTROL, Airpor	-
21MULD       Managerial Challenges in Air Transport       Z,ZK       5         The course contains a list of basic managerial tasks in aviation. The basic managerial tasks are quality assurance and operational safety, marketing operations, marketing context implementation, airline network management, fleet management and revenue management. The core disciplines also include project management, cost management and project resource planning and management.         21NSR       Navigation and Flight Control Systems       Z,ZK       5         Navigation. Radionavigation. Satellite navigation. Flight management system. Autopilot. FMC. Practical execution of flight.       5         21NTLE       New Trends in Aviation Technologies       KZ       3         The course includes an introduction to all the technologies that are currently important to aviation, such as new aircraft design concepts, new types of propulsion, and new types of	1	out ecology, sustainable development, ecological stability, environmental protection and environmental legislation. It also focuses on		-
21NSR         Navigation and Flight Control Systems         Z,ZK         5           Navigation. Radionavigation. Satellite navigation. Flight management system. Autopilot. FMC. Practical execution of flight.         5           21NTLE         New Trends in Aviation Technologies         KZ         3           The course includes an introduction to all the technologies that are currently important to aviation, such as new aircraft design concepts, new types of propulsion, and new types of         5	The course contai	Managerial Challenges in Air Transport ins a list of basic managerial tasks in aviation. The basic managerial tasks are quality assurance and operational safety, marketing o irline network management, fleet management and revenue management. The core disciplines also include project management, co	perations, marketi	ng context
21NTLE         New Trends in Aviation Technologies         KZ         3           The course includes an introduction to all the technologies that are currently important to aviation, such as new aircraft design concepts, new types of propulsion, and new types of         Meeting	21NSR	Navigation and Flight Control Systems	Z,ZK	5
The course includes an introduction to all the technologies that are currently important to aviation, such as new aircraft design concepts, new types of propulsion, and new types of			<b>V7</b>	0
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21PAM1	Programming and Modelling 1	KZ	5
-	s, their generation. Real signals, sampling theorem, aliasing. Signal filtering. Fourier transform (FT), discrete Fourier transform (DFT),		
Spectrum estim	ation, spectral power density. Image - basic processing methods, 2D Fourier transform, noise filtering, edge detection, linear and non- transforms, geometric transforms, image compression.	-linear methods, br	rightness
21PAM2	Programming and Modelling 2	KZ	5
	tistics, classical statistical analysis. Statistical hypothesis testing. Analysis of variance (ANOVA), one-factor, two-factor ANOVA. Non-p	I I	
	elation, correlation coefficient. Non-linear regression models, procedure for regression analysis of a non-linear model. Basics of machine		
	nearest neighbour method. SVM classifiers. Decision trees.	no loanning. Olabor	inoution by
21PEKL	Principles and Models in Air Transport Economics	Z,ZK	5
	is the most important and typical models on which the economics of air transport is based. It covers the principles of regulation, airline		-
structure, analyses	s 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) an	d 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
Planning, design a	nd modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacity	-	nd practices
	for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport master		
21SPOL	Aircraft Technology Reliability	Z,ZK	4
	tuition of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production and worl		
General legalities	are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and they security in The Czech Police Aviation Department.	/ are practical illust	tration of its
21SYMS	System Thinking	ZK	3
	System mining cture, algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal setting, u	I I	-
System, its struc	decision making under uncertainty.		guments,
21XN1	Master Project 1	Z	2
21XN2	Master Project 1 Master Project 2	Z	2
21XN2 21XN3L			
	Master Project 3 for study programme PL	Z	2
21XN4L	Master Project 4 for study programme PL	Z	2
21XNL1	Thesis seminar 1	Z	2
	ntific publications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Time mana	-	
design, mathema	atical typesetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with text, digit outline. Rhetorical exercises / presentation skills.	ai notes, working v	with notes,
21XNL2	Thesis Seminar 2	Z	2
	rs from the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation of m	ı — I	
	pted graphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhetorical		-
,	Specifics of state exams.		
21Y2BS	Unmanned aircraft systems 2	KZ	2
Modern trends in u	mmanned aircraft development. Use of unmanned aircraft. Managerial activities related to the operation of unmanned aircraft. Flights be	yond the applicable	e legislation.
21Y2CR	CRM	KZ	2
Introduction to CR	M. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the human	an body. Fatigue S	leep &
Vigilance.	Information Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership & amp; Team B	ehaviour. Automat	ion.
21Y2FM	Aviation Company Financial Management	KZ	2
Theories of corp	porate finance - financial statements, budget, forecast. Financial policy of the company. Financial resources - long-term financial resou	rces, depreciation,	, retained
	earnings, shares, bonds, loans, leasing, capital. Financial and economic analysis of the company - structure and content.	r	
21Y2LS	Air Traffic Services	KZ	2
Airspace structure	in Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, APP		story of ATS
	at USA and Czechoslovakia. ATS - Model of financing. Training Systém of Air Traffic Controllers. Future development of ATS		
21Y2MC	CNS Systems Modelling	KZ	2
I he course is desi	gned as a set of model tasks in the field of communication navigation and surveillance systems in aviation, addressed using mathema		ind software
	tools. A large part is devoted to air targets tracking, measurement-to-track association, track filtering and multisensor trackin	-	2
21Y2MK	Marketing of Air Transport course "Marketing in air transport" is the management of activities and processes using available marketing tools and processes for a	KZ KZ	2 levelopment
	or of sales of goods and services in the aviation industry. In addition to the theoretical foundations of marketing, the lectures present s		
	and product analysis, creation of marketing strategies and planning.	,,	
21Y2MQ	Quality Management	KZ	2
	inition. Pioneers in the field of quality. International quality organisations and quality promotion in the Czech Republic. Quality manage	I I	
management syste	ems. Integrated management systems. Risk management in the context of the requirements of ISO standards. Sectoral quality manager	ment systems. Com	nprehensive
	quality management, excellence models and corporate social responsibility. Quality audits.		
21Y2PP	Law and Operation in Air Transport	KZ	2
	viation law. International conventions on civil aviation. International organisations and including of the Czech Republic in these organis	-	
aviation. Execut	ion of state administration and state supervision in matters of civil aviation, in accordance with Act No. 49/1997 Col. Facilitation. Resp	onsibilities of air ca	arriers for
	passengers, luggage and cargo. The safe transport of dangerous goods.	· "	
21Y2UL	Aircraft Maintenance	KZ	2
	ance Organisations (AMOs), Continuing Airworthiness Management Organisations (CAMOs), Maintenance Training Organisations (M		
and additional ICA	Instructions for Continued Airworthiness) instructions, aircraft release to service procedure, maintenance programmes and scheduli repair methods, aircraft centre of gravity and weights, human factors in aircraft maintenance.	ing, modifications a	anu general
	repar metrous, anoran tentre or gravity and weights, numbri lations in anticial maintenance.		

21Y2VA	Selected Chapters of Aerodynamics	KZ	2
Physical properties of	f real gases, atmosphere, aeronautical applications of external and internal aerodynamics, compressible internal flow, inlet nozzles a	nd drive nozzles, c	ompressible
external flow, superci	ritical wings and profiles, vertical and oblique shock wave, energy losses, aeronautical aerodynamic profiles of wings, propellers, bi	ades gratings, lift,	drag, polar,
	viscosity, laminar and turbulent flow, boundary layer.		
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 knowledge	ge of practical procedures in aircraft accident investigation. Equipment and organisation of the investigation team. Examples of airc	raft accident inves	tigations in
the C	Szech Republic and abroad and analysis of published final reports. Examples of the preparation of the final report of an air accident	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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