Study plan

Name of study plan: PL nav.kombi 23/24 (pro program PL)

Faculty/Institute/Others: Department: Branch of study guaranteed by the department: Welcome page Garantor of the study branch: Program of study: Air Traffic Control and Management Type of study: Follow-up master combined Required credits: 70 Elective courses credits: 50 Sum of credits in the plan: 120 Note on the plan:

Name of the block: Compulsory courses Minimal number of credits of the block: 54 The role of the block: Z

Code of the group: 1.S.NKPL 22/23 Name of the group: 1.sem.nav.kombi PL (od) 22/23 (program PL) Requirement credits in the group: In this group you have to gain 28 credits Requirement courses in the group: In this group you have to complete 7 courses Credits in the group: 28 Note on the group:

Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their Code Completion Credits Scope Semester Role members) Tutors, authors and guarantors (gar.) **Applied Statistics** 11APAS Z.ZK 2P+2C+12B 7 4 7 Evženie Uglickich, Pavla Pecherková Pavla Pecherková Mathematical Models and their Applications Ζ 11MMJ Evženie Uglickich, Pavla Pecherková, Šárka Vorá ová, Ivan Nagy, Michal Matowicki **Pavla Pecherková** Evženie Uglickich (Gar.) Z,ZK 4 2P+2C+12B 7 Safety Engineering in Aviation 21BILD Ζ Z,ZK 4 2P+2C+12B Ζ Natalia Guskova, Kate ina Grötschelová, Andrej Lališ Andrej Lališ **CNS Systems** 21CNSS 5 Ζ Z,ZK 3P+2C+16B Ζ Stanislav Pleninger, Jakub Steiner Stanislav Pleninger Airport 21LETS Z.ZK 4 1P+2C+12B Ζ 7 Petr Líka, Sébastien Lán, Petr Had, Ji í Volt, Slobodan Stoji Slobodan Stoji Principles and Models in Air Transport Economics 21PEKL Z,ZK 5 4P+2C+16B 7 z Peter Vittek Peter Vittek Language - English 1 Barbora Horá ková, Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Marek Tome ek, Markéta 15J2A1 Ζ 2 0P+2C+10B 7 Ζ Musilová.

Characteristics of the courses of this group of Study Plan: Code=1.S.NKPL 22/23 Name=1.sem.nav.kombi PL (od) 22/23 (program PL)

11APAS	Applied Statistics	Z,ZK	4		
Descriptive statistics, data preprocessing, discretize continuous data. Hypothesis testing - continuous and discrete variables. Regression and correlation analysis. Multivariable methods					
- multiple regression analysis, logistic regression analysis, ROC curve, MANOVA, PCA, Factor analysis. Power analysis, preparation, processing and evaluation of hte experiment.					
11MMJ	Mathematical Models and their Applications	Z,ZK	4		
System. Regression, dis	crete and logistic models. Bayesian estimation of model parameters. Parameter estimation of normal regression, discrete an	d logistic models.	Classification		
with logistic model. One	-step and multi-step prediction with regression and discrete models. State model. State estimation. Kalman filter. Control with	regression and c	liscrete models.		
21BILD	Safety Engineering in Aviation	Z,ZK	4		
The course is focused o	n understanding the issue of safety, learning how to assess new systems in terms of safety and acquiring principles of safety	management. St	udents will learn		
explaining accidents and	d incident causes and bridge their theoretical knowledge with practical problems of air transport.				
21CNSS	CNS Systems	Z,ZK	5		
Course provides full tech	nical informations about CNS (communication, navigation, surveilance) systems used in aviation. Systems are presented in p	erspective of futu	re development.		
21LETS	Airport	Z,ZK	4		
Methods of designing new airports and developing existing ones. Connection of the airport to the surrounding infrastructure. Airport economics. Detailed look at the development of					
movement areas. Certification of airside movement areas and procedures according to EASA CS-ADR-DSN. Development planning - design, preparation and regulatory basis.					
Environmental aspects	Environmental aspects of airport operations.				

21PEKL	Principles and Models in Air Transport Economics	Z,ZK	5
The course contains the most important and typical models on which the economics of air transport is based. It covers the principles of regulation,			models, market
structure, analyses airlin	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 eco	nomic principles
of safety and security.			
15J2A1	Language - English 1	Z	2
Presentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.			

Code of the group: 2.S.NKPL 22/23 Name of the group: 2.sem.nav.kombi PL (od) 22/23 (program PL) 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 Terézia Pilmannová Terézia Pilmannová Jakub Kraus (Gar.)	Z,ZK	5	3P+2C+16B	i L	Z
21MULD	Managerial Challenges in Air Transport Peter Vittek Peter Vittek (Gar.)	Z,ZK	5	3P+2C+14B	s L	Z
21PLET	Airport Operations Sébastien Lán, Petr Had, Ji í Volt Slobodan Stoji (Gar.)	Z,ZK	5	2P+2C+12B	s L	Z
21SPOL	Aircraft Technology Reliability Natalia Guskova, Kate ina Grötschelová, Old ich Štumbauer Andrej Lališ (Gar.)	Z,ZK	4	2P+1C+12B	i L	Z
21PAM1	Programming and Modelling 1 Vladimír Socha, Lenka Hanáková Vladimír Socha (Gar.)	KZ	5	2P+4C+16B	s L	Z
15JBA2	Language - English 2 Barbora Horá ková, Jitka He manová, Dana Boušová, Lenka Monková, Peter Morpuss, Markéta Vojanová, Marie Michlová, Marek Tome ek, Markéta Musilová	z	2	0P+2C+10B	S L	Z

Characteristics of the courses of this group of Study Plan: Code=2.S.NKPL 22/23 Name=2.sem.nav.kombi Pl	∟ (od) 22/23 (program PL)			
21AFM Air Traffic Management	Z,ZK	5			
Current ATM system and its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Data	a exchange with n	eighboring ATM			
systems. Monitoring systems and technical supervision. ATM simulation. ATM conceptions and strategies for next years. EUROCONTROL - CFMU. FA	B. ATS's - AOC's c	lata applications.			
21MULD Managerial Challenges in Air Transport	Z,ZK	5			
The course contains a list of basic managerial tasks in aviation. The basic managerial tasks are quality assurance and operational safety, marketing operations, marketing context					
implementation, airline network management, fleet management and revenue management. The core disciplines also include project management,	cost managemen	t and project			
resource planning and management.					
21PLET Airport Operations	Z,ZK	5			
Planning, design and modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacity. Available tools 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	they are practical	illustration of its			
security in The Czech Police 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, spectral power density. Image - basic processing methods, 2D Fourier transform, noise filtering, edge detection, linear and noise filtering.	n-linear methods,	brightness			
transforms, geometric transforms, image compression.					
15JBA2 Language - English 2	Z	2			
Presentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.					

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

Code of the group: XN PL 1-4 22/23 Name of the group: Projekty nav. 1.-4.sem (od) 22/23 programu PL (PRE i KOMBI) 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					
Code	(In case of groups of courses the list of codes of their members)	Completion	Credits	Scope	Semester	Role
	Tutors, authors and guarantors (gar.)					
11XN1	Master Project 1 Ivan Nagy	Z	2	0P+2C+4B	Z	ZP
12XN1	Master Project 1 Zuzana arská, Dagmar Ko árková, Iva Šturmová, Kristýna Neubergová, Martin Jacura, Jan Kruntorád, Ond ei Trešl. David Vodák, Tomáš Javo ík	Z	2	0P+2C+4B	Z	ZP
14XN1	Master Project 1	Z	2	0P+2C+4B	Z	ZP
15XN1	Master Project 1	Z	2	0P+2C+4B	Z	ZP
16XN1	Master Project 1	Z	2	0P+2C+4B	Z	ZP
17XN1	Master Project 1 Václav Baroch, Michal Drábek, Alexandra Dvo á ková, Veronika Faifrová, Eliška Claostivé, Budolf E. Holdy, Taméš Harák, Vít, Japoš Milap K (ž	Z	2	0P+2C+4B	z	ZP
18XN1	Master Project 1 Várlav, Pada Nela Kr. má ová	Z	2	0P+2C+4B	Z	ZP
20XN1	Master Project 1	Z	2	0P+2C+4B	Z	ZP
21XN1	Master Project 1 Natalia Guskova, Andrej Lališ, Jakub Steiner, Slobodan Stoji , Peter Vittek, Tarázia Bilmannavá, Jakub Kraun, Vladimír, Sasha, Lanka Hanáková,	Z	2	0P+2C+4B	Z	ZP
22XN1	Master Project 1 Mistel Friday Angel Kazis, Vidunin Socia, Leina Hanakova,	Z	2	0P+2C+4B	Z	ZP
23XN1	Michai Hydryn, Karel Kocian, Lubos Nouzovsky, Zden k Svaty, Jakub Nova ek Master Project 1	Z	2	0P+2C+4B	Z	ZP
11XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
12XN2	Ivan Nagy Master Project 2 Zuzana arská, Dagmar Ko árková, Kristýna Neubergová, Martin Jacura, Jan	Z	2	0P+2C+8B	L	ZP
14XN2	Kruntorád, Ond ej Trešl, David Vodák, Tomáš Javo ík, Pavel Purkart, Master Project 2	7	2	0P+2C+8B	1	70
15XN2	Vít Fábera, Tomáš Brandejský, Mária Jánešová, Jan Zelenka Master Project 2	7	2	0P+2C+8B		7P
16XN2	Master Project 2	7	2			70
	P emysl Toman, Josef Mik Master Project 2	2			L	2F
17XN2	Václav Baroch, Michal Drábek, Alexandra Dvo á ková, Veronika Faifrová, Rudolf F. Heidu, Tomáš Horák, Vít Janoš, Milan K íž, Olga Mertlová, Vít Janoš (Gar.)	Z	2	0P+2C+8B	L	ZP
18XN2	Master Project 2	Z	2	0P+2C+8B	L	ZP
20XN2	Master Project 2 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, Slobodan Stoji, Peter Vittek, Terézia Pilmannová, Jakub Kraus, 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	Z	2	0P+2C+8B	Z	ZP
12XN3L	Master Project 3	Z	2	0P+2C+8B	Z	ZP
14XN3L	Master Project 3	Z	2	0P+2C+8B	Z	ZP
15XN3L	Master Project 3	Z	2	0P+2C+8B	Z	ZP
16XN3L	Master Project 3	Z	2	0P+2C+8B	Z	ZP
17XN3L	Master Project 3	Z	2	0P+2C+8B	Z	ZP
18XN3L	Master Project 3	Z	2	0P+2C+8B	Z	ZP
20XN3L	Master Project 3	Z	2	0P+2C+8B	Z	ZP
21XN3L	Master Project 3 Natalia Guskova, Kate ina Grötschelová, Andrej Lališ, Slobodan Stoji , Peter Vittek, Terézia Pilmannová, Jakub Kraus, Vladimír Socha, Lenka Hanáková,	Z	2	0P+2C+8B	Z	ZP
22XN3L	Master Project 3	Z	2	0P+2C+8B	Z	ZP
23XN3L	Master Project 3	Z	2	0P+2C+8B	Z	ZP
11XN4L	Master Project 4	Z	2	0P+5C+8B	L	ZP
12XN4L	Master Project 4	Z	2	0P+5C+8B	L	ZP
14XN4L	Master Project 4 Vít Fábera, Tomáš, Brandejský, Mária, Jánešová, Jan Zelenka	Z	2	0P+5C+8B	L	ZP
15XN4L	Master Project 4	Z	2	0P+5C+8B	L	ZP
16XN4L	Master Project 4	Z	2	0P+5C+8B	L	ZP
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17XN4L	Master Project 4	Z	2	0P+5C+8B	L	ZP
18XN4L	Master Project 4	Z	2	0P+5C+8B	L	ZP
20XN4L	Master Project 4	Z	2	0P+5C+8B	L	ZP
21XN4L	Master Project 4 Natalia Guskova, Kate ina Grötschelová, Andrej Lališ, Stanislav Pleninger, Jakub Steiner, Petr Had, Ji í Volt, Slobodan Stoji , Peter Vittek,	Z	2	0P+5C+8B	L	ZP
22XN4L	Master Project 4	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=XN PL 1-4 22/23 Name=Projekty nav. 1.-4.sem (od) 22/23 programu PL (PRE i KOMBI)

12XN1 Master Project 1 Z 2 14XN1 Master Project 1 Z 2 15XN1 Master Project 1 Z 2 12XN1 Master Project 1 Z 2 21XN1 Master Project 1 Z 2 21XN1 Master Project 1 Z 2 21XN1 Master Project 2 Z 2 21XN1 Master Project 2 Z 2 21XN2 Master Project 2 Z 2 21XN2 Master Project 2 Z 2 15XN2 Master Project 2 Z 2 21XN2 Master Project 2 Z 2	11XN1	Master Project 1	Z	2
14XN11 Master Project 1 Z 2 15XN1 Master Project 1 Z 2 20XN1 Master Project 1 Z 2 21XN1 Master Project 1 Z 2 22XN1 Master Project 1 Z 2 22XN1 Master Project 1 Z 2 22XN1 Master Project 2 Z 2 21XN2 Master Project 2 Z 2 12XN2 Master Project 3 Z 2	12XN1	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 21XN1 Master Project 1 Z 2 21XN1 Master Project 1 Z 2 22XN1 Master Project 1 Z 2 22XN1 Master Project 1 Z 2 22XN1 Master Project 2 Z 2 22XN1 Master Project 2 Z 2 11XN2 Master Project 2 Z 2 12XN2 Master Project 2 Z 2 21XN2 Master Project 2 Z 2 21XN2 Master Project 2 Z 2 21XN2 Master Project 3 Z 2 21XN2 Master Project 3 Z 2 2	14XN1	Master Project 1	Z	2
16XN11 Master Project 1 2 2 17XN1 Master Project 1 2 2 12XN1 Master Project 1 2 2 21XN1 Master Project 1 2 2 22XN1 Master Project 1 2 2 22XN1 Master Project 1 2 2 22XN1 Master Project 1 2 2 23XN1 Master Project 1 2 2 1XN2 Master Project 2 2 2 2XN2 Master Project 2 2 2 2XN2 Master Project 3 2 2 2XN2 Master Project 3 2 2 2XN2 Master Project 3 2 2	15XN1	Master Project 1	Z	2
17XN11 Master Project 1 2 2 18XN1 Master Project 1 2 2 21XN1 Master Project 1 2 2 21XN1 Master Project 1 2 2 23XN1 Master Project 1 2 2 23XN1 Master Project 1 2 2 23XN1 Master Project 2 2 2 21XN2 Master Project 2 2 2 1XN2 Master Project 2 2 2 1XN2 Master Project 2 2 2 15XN2 Master Project 2 2 2 20XN2 Master Project 2 2 2 21XN2 Master Project 2 2 2 21XN2 Master Project 3 2 2 21XN2 Master Project 3 2 2 21XN2 Master Project 3 2 2 12XN3L Master Project 3 2 2 12XN3L Master Project 3 2 2 12XN3L Master Project 3 2 <td>16XN1</td> <td>Master Project 1</td> <td>Z</td> <td>2</td>	16XN1	Master Project 1	Z	2
18XN1 Master Project 1 2 2 20XN1 Master Project 1 2 2 22XN1 Master Project 1 2 2 23XN1 Master Project 1 2 2 23XN1 Master Project 1 2 2 23XN1 Master Project 2 2 2 11XN2 Master Project 2 2 2 12XN2 Master Project 2 2 2 15XN2 Master Project 2 2 2 20XN2 Master Project 2 2 2 21XN2 Master Project 2 2 2 21XN2 Master Project 3 2 2 21XN2 Master Project 3 2 2 21XN2 Master Project 3 2 2 21XN3 Master Project 3 2	17XN1	Master Project 1	Z	2
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21XN1Master Project 1Z222XN1Master Project 1Z223XN1Master Project 1Z211XN2Master Project 2Z212XN2Master Project 2Z212XN2Master Project 2Z215XN2Master Project 2Z221XN2Master Project 2Z222XN2Master Project 2Z223XN2Master Project 3Z221XN3LMaster Project 3Z211XN3LMaster Project 3Z212XN3LMaster Project 3Z215XN3LMaster Project 3Z215XN3LMaster Project 3Z221XN3LMaster Project 3Z221XN3LMaster Project 3Z221XN3LMaster Project 3Z221XN3LMaster Project 3Z221XN3LMaster Project 4Z221XN3LMaster Project 4Z221XN3LMaster Project 4Z221XN4LMaster Project 4Z	20XN1	Master Project 1	Z	2
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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 12XN2 Master Project 2 Z 2 22XN2 Master Project 2 Z 2 22XN2 Master Project 3 Z 2 12XN3L Master Project 3 Z 2 12XN3L Master Project 3 Z 2 15XN3L Master Project 3 Z 2	22XN1	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 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 3 Z 2 21XN3 Master Project 3 Z 2 12XN3L Master Project 3 Z 2 15XN3L Master Project 3 Z 2	23XN1	Master Project 1	Z	2
12XN2 Master Project 2 2 14XN2 Master Project 2 2 15XN2 Master Project 2 2 16XN2 Master Project 2 2 16XN2 Master Project 2 2 17XN2 Master Project 2 2 18XN2 Master Project 2 2 20XN2 Master Project 2 2 21XN2 Master Project 2 2 22XN2 Master Project 2 2 23XN2 Master Project 2 2 23XN2 Master Project 3 2 21XN3 Master Project 3 2 11XN3L Master Project 3 2 12XN3L Master Project 4 2 12XN3L Master Project 3	11XN2	Master Project 2	Z	2
14XN2Master Project 2Z215XN2Master Project 2Z215XN2Master Project 2Z217XN2Master Project 2Z218XN2Master Project 2Z218XN2Master Project 2Z220XN2Master Project 2Z221XN2Master Project 2Z223XN2Master Project 2Z223XN2Master Project 3Z211XN3LMaster Project 3Z212XN3LMaster Project 3Z212XN3LMaster Project 3Z212XN3LMaster Project 3Z215XN3LMaster Project 3Z215XN3LMaster Project 3Z215XN3LMaster Project 3Z215XN3LMaster Project 3Z221XN3LMaster Project 3Z221XN3LMaster Project 3Z221XN3LMaster Project 3Z221XN3LMaster Project 4Z221XN3LMaster Project 4Z221XN4LMaster Project 4Z211XN4LMaster Project 4Z212XN4LMaster Project 4Z212XN4LMaster Project 4Z212XN4LMaster Project 4Z212XN4LMaster Project 4Z221XN4LMaster Project 4 <td< td=""><td>12XN2</td><td>Master Project 2</td><td>Z</td><td>2</td></td<>	12XN2	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 2XN2 Master Project 3 Z 2 2XN2 Master Project 3 Z 2 14XN3L Master Project 3 Z 2 14XN3L Master Project 3 Z 2 14XN3L Master Project 3 Z 2 15XN3L Master Project 3 Z 2 16XN3L Master Project 3 Z 2 20XN3L Master Project 3 Z 2 21XN3L Master Project 4 Z 2 21XN3L Master Project 3 Z	14XN2	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 3 Z 2 11XN3L Master Project 3 Z 2 12XN3L Master Project 3 Z 2 15XN3L Master Project 3 Z 2 16XN3L Master Project 3 Z 2 20XN3L Master Project 3 Z 2 21XN3L Master Project 4 Z 2 21XN4L Master Project 4	15XN2	Master Project 2	Z	2
17XN2Master Project 2Z218XN2Master Project 2Z220XN2Master Project 2Z221XN2Master Project 2Z222XN2Master Project 2Z223XN2Master Project 3Z211XN3LMaster Project 3Z212XN3LMaster Project 3Z212XN3LMaster Project 3Z212XN3LMaster Project 3Z212XN3LMaster Project 3Z212XN3LMaster Project 3Z216XN3LMaster Project 3Z216XN3LMaster Project 3Z217XN3LMaster Project 3Z212XN3LMaster Project 3Z212XN3LMaster Project 3Z22XN3LMaster Project 3Z22XN3LMaster Project 3Z22XN3LMaster Project 3Z22XN3LMaster Project 4Z212XN4LMaster Project 4Z212XN4LMaster Project 4Z212XN4LMaster Project 4Z22XN4LMaster Project 4Z22XN4LMaster Project 4Z22XN4LMaster Project 4Z22XN4LMaster Project 4Z22XN4LMaster Project 4Z22XN4LMaster Project 4Z <td>16XN2</td> <td>Master Project 2</td> <td>Z</td> <td>2</td>	16XN2	Master Project 2	Z	2
18XN2Master Project 2Z220XN2Master Project 2Z221XN2Master Project 2Z222XN2Master Project 2Z223XN2Master Project 2Z221XN3Master Project 2Z221XN3Master Project 3Z212XN3LMaster Project 3Z215XN3LMaster Project 3Z216XN3LMaster Project 3Z216XN3LMaster Project 3Z217XN3LMaster Project 3Z218XN3LMaster Project 3Z220XN3LMaster Project 3Z221XN3LMaster Project 3Z221XN3LMaster Project 3Z221XN3LMaster Project 3Z221XN3LMaster Project 3Z221XN3LMaster Project 3Z221XN4LMaster Project 4Z212XN4LMaster Project 4Z212XN4LMaster Project 4Z212XN4LMaster Project 4Z212XN4LMaster Project 4Z220XN4LMaster Project 4Z222XN4LMaster Project 4Z222XN4LMaster Project 4Z222XN4LMaster Project 4Z222XN4LMaster Project 4Z22XN4LMaster Project 4<	17XN2	Master Project 2	Z	2
20XN2Master Project 2Z221XN2Master Project 2Z222XN2Master Project 2Z223XN2Master Project 2Z211XN3LMaster Project 3Z212XN3LMaster Project 3Z214XN3LMaster Project 3Z215XN3LMaster Project 3Z216XN3LMaster Project 3Z217XN3LMaster Project 3Z217XN3LMaster Project 3Z218XN3LMaster Project 3Z220XN3LMaster Project 3Z221XN3LMaster Project 4Z221XN4LMaster Project 4Z212XN4LMaster Project 4Z215XN4LMaster Project 4Z215XN4LMaster Project 4Z221XN4LMaster Project 4Z221XN4LMaster Project 4Z221XN4LMaster Project 4Z221XN4LMaster Project 4Z221XN4LMaster Project 4Z221XN4LMaster Project 4 </td <td>18XN2</td> <td>Master Project 2</td> <td>Z</td> <td>2</td>	18XN2	Master Project 2	Z	2
21XN2Master Project 22222XN2Master Project 22223XN2Master Project 22221XN3LMaster Project 32212XN3LMaster Project 32214XN3LMaster Project 32215XN3LMaster Project 32216XN3LMaster Project 32217XN3LMaster Project 32217XN3LMaster Project 32218XN3LMaster Project 32220XN3LMaster Project 32221XN3LMaster Project 32221XN3LMaster Project 32221XN3LMaster Project 32221XN3LMaster Project 32221XN3LMaster Project 32221XN3LMaster Project 42211XN4LMaster Project 42212XN4LMaster Project 42215XN4LMaster Project 42216XN4LMaster Project 42217XN4LMaster Project 42212XN4LMaster Project 4222XN4LMaster Project 4222XN4LMaster Project 4222XN4LMaster Project 4222XN4LMaster Project 4222XN4LMaster Project 4222XN4LMaster Project 4 <t< td=""><td>20XN2</td><td>Master Project 2</td><td>Z</td><td>2</td></t<>	20XN2	Master Project 2	Z	2
22XN2 Master Project 2 Z 2 23NN2 Master Project 2 Z 2 11XN3L Master Project 3 Z 2 12XN3L Master Project 3 Z 2 14XN3L Master Project 3 Z 2 15XN3L Master Project 3 Z 2 15XN3L Master Project 3 Z 2 16XN3L Master Project 3 Z 2 17XN3L Master Project 3 Z 2 18XN3L Master Project 3 Z 2 20XN3L Master Project 3 Z 2 21XN3L Master Project 4 Z 2 21XN4L Master Project 4 Z 2 12XN4L Master Project 4 Z 2 12XN4L Master Project 4 Z 2 15XN4L Master Project 4 Z 2	21XN2	Master Project 2	Z	2
23XN2Master Project 2Z211XN3LMaster Project 3Z212XN3LMaster Project 3Z214XN3LMaster Project 3Z215XN3LMaster Project 3Z216XN3LMaster Project 3Z217XN3LMaster Project 3Z218XN3LMaster Project 3Z218XN3LMaster Project 3Z220XN3LMaster Project 3Z221XN3LMaster Project 4Z212XN4LMaster Project 4Z212XN4LMaster Project 4Z215XN4LMaster Project 4Z215XN4LMaster Project 4Z216XN4LMaster Project 4Z217XN4LMaster Project 4Z218XN4LMaster Project 4Z22XN4LMaster Project 4Z22XN4LMaster Project 4Z22XN4LMaster Project 4Z22XN4LMaster Project 4Z22XN4LMaster Project 4Z22XN4LMaster Project 4	22XN2	Master Project 2	Z	2
11XN3LMaster Project 3Z212XN3LMaster Project 3Z214XN3LMaster Project 3Z215XN3LMaster Project 3Z216XN3LMaster Project 3Z217XN3LMaster Project 3Z218XN3LMaster Project 3Z217XN3LMaster Project 3Z220XN3LMaster Project 3Z221XN3LMaster Project 3Z221XN3LMaster Project 3Z222XN3LMaster Project 3Z223XN3LMaster Project 3Z221XN4LMaster Project 4Z211XN4LMaster Project 4Z212XN4LMaster Project 4Z215XN4LMaster Project 4Z215XN4LMaster Project 4Z215XN4LMaster Project 4Z215XN4LMaster Project 4Z216XN4LMaster Project 4Z217XN4LMaster Project 4Z218XN4LMaster Project 4Z22XN4LMaster Project 4	23XN2	Master Project 2	Z	2
12XN3LMaster Project 3Z214XN3LMaster Project 3Z215XN3LMaster Project 3Z216XN3LMaster Project 3Z217XN3LMaster Project 3Z220XN3LMaster Project 3Z221XN3LMaster Project 3Z221XN3LMaster Project 3Z221XN3LMaster Project 3Z221XN3LMaster Project 3Z221XN3LMaster Project 3Z221XN3LMaster Project 3Z221XN4LMaster Project 4Z212XN4LMaster Project 4Z212XN4LMaster Project 4Z215XN4LMaster Project 4Z216XN4LMaster Project 4Z217XN4LMaster Project 4Z218XN4LMaster Project 4Z218XN4LMaster Project 4Z220XN4LMaster Project 4Z221XN4LMaster Project	11XN3L	Master Project 3	Z	2
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16XN3LMaster Project 3Z217XN3LMaster Project 3Z218XN3LMaster Project 3Z220XN3LMaster Project 3Z221XN3LMaster Project 3Z223XN3LMaster Project 3Z223XN3LMaster Project 3Z211XN4LMaster Project 4Z212XN4LMaster Project 4Z214XN4LMaster Project 4Z215XN4LMaster Project 4Z216XN4LMaster Project 4Z217XN4LMaster Project 4Z218XN4LMaster Project 4Z217XN4LMaster Project 4Z217XN4LMaster Project 4Z218XN4LMaster Project 4Z220XN4LMaster Project 4Z221XN4LMaster Project 4Z221XN4LMaster Project 4Z221XN4LMaster Project 4Z221XN4LMaster Project 4Z222XN4LMaster Project 4Z222XN4LMaster Project 4Z223XN4LMaster Project 4Z223XN4LMaster Project 4Z223XN4LMaster Project 4Z223XN4LMaster Project 4Z223XN4LMaster Project 4Z223XN4LMaster Project	15XN3L	Master Project 3	Z	2
17XN3LMaster Project 3Z218XN3LMaster Project 3Z220XN3LMaster Project 3Z221XN3LMaster Project 3Z222XN3LMaster Project 3Z223XN3LMaster Project 3Z211XN4LMaster Project 4Z212XN4LMaster Project 4Z214XN4LMaster Project 4Z215XN4LMaster Project 4Z216XN4LMaster Project 4Z217XN4LMaster Project 4Z217XN4LMaster Project 4Z220XN4LMaster Project 4Z220XN4LMaster Project 4Z220XN4LMaster Project 4Z220XN4LMaster Project 4Z220XN4LMaster Project 4Z221XN4LMaster Project 4Z221XN4LMaster Project 4Z221XN4LMaster Project 4Z221XN4LMaster Project 4Z222XN4LMaster Project 4Z223XN4LMaster Project 4Z223XN4LMaster Project 4Z2	16XN3L	Master Project 3	Z	2
18XN3LMaster Project 3Z220XN3LMaster Project 3Z221XN3LMaster Project 3Z222XN3LMaster Project 3Z223XN3LMaster Project 3Z211XN4LMaster Project 4Z212XN4LMaster Project 4Z214XN4LMaster Project 4Z215XN4LMaster Project 4Z216XN4LMaster Project 4Z217XN4LMaster Project 4Z218XN4LMaster Project 4Z218XN4LMaster Project 4Z220XN4LMaster Project 4Z220XN4LMaster Project 4Z221XN4LMaster Project 4Z222XN4LMaster Project 4Z222XN4LMaster Project 4Z222XN4LMaster Project 4Z223XN4LMaster Project 4Z2	17XN3L	Master Project 3	Z	2
20XN3LMaster Project 3Z221XN3LMaster Project 3Z222XN3LMaster Project 3Z223XN3LMaster Project 3Z211XN4LMaster Project 4Z212XN4LMaster Project 4Z214XN4LMaster Project 4Z215XN4LMaster Project 4Z216XN4LMaster Project 4Z217XN4LMaster Project 4Z218XN4LMaster Project 4Z220XN4LMaster Project 4Z221XN4LMaster Project 4Z220XN4LMaster Project 4Z221XN4LMaster Project 4Z221XN4LMaster Project 4Z221XN4LMaster Project 4Z221XN4LMaster Project 4Z222XN4LMaster Project 4Z223XN4LMaster Project 4Z2	18XN3L	Master Project 3	Z	2
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23XN3LMaster Project 3Z211XN4LMaster Project 4Z212XN4LMaster Project 4Z214XN4LMaster Project 4Z215XN4LMaster Project 4Z216XN4LMaster Project 4Z216XN4LMaster Project 4Z217XN4LMaster Project 4Z218XN4LMaster Project 4Z218XN4LMaster Project 4Z220XN4LMaster Project 4Z221XN4LMaster Project 4Z221XN4LMaster Project 4Z222XN4LMaster Project 4Z223XN4LMaster Project 4Z223XN4LMaster Project 4Z223XN4LMaster Project 4Z2	22XN3L	Master Project 3	Z	2
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12XN4LMaster Project 4Z214XN4LMaster Project 4Z215XN4LMaster Project 4Z216XN4LMaster Project 4Z217XN4LMaster Project 4Z218XN4LMaster Project 4Z218XN4LMaster Project 4Z220XN4LMaster Project 4Z221XN4LMaster Project 4Z222XN4LMaster Project 4Z223XN4LMaster Project 4Z223XN4LMaster Project 4Z2	11XN4L	Master Project 4	Z	2
14XN4LMaster Project 4Z215XN4LMaster Project 4Z216XN4LMaster Project 4Z217XN4LMaster Project 4Z218XN4LMaster Project 4Z220XN4LMaster Project 4Z221XN4LMaster Project 4Z222XN4LMaster Project 4Z223XN4LMaster Project 4Z223XN4LMaster Project 4Z2	12XN4L	Master Project 4	Z	2
15XN4LMaster Project 4Z216XN4LMaster Project 4Z217XN4LMaster Project 4Z218XN4LMaster Project 4Z220XN4LMaster Project 4Z221XN4LMaster Project 4Z222XN4LMaster Project 4Z223XN4LMaster Project 4Z223XN4LMaster Project 4Z2	14XN4L	Master Project 4	Z	2
16XN4LMaster Project 4Z217XN4LMaster Project 4Z218XN4LMaster Project 4Z220XN4LMaster Project 4Z221XN4LMaster Project 4Z222XN4LMaster Project 4Z223XN4LMaster Project 4Z223XN4LMaster Project 4Z2	15XN4L	Master Project 4	Z	2
17XN4LMaster Project 4Z218XN4LMaster Project 4Z220XN4LMaster Project 4Z221XN4LMaster Project 4Z222XN4LMaster Project 4Z223XN4LMaster Project 4Z2	16XN4L	Master Project 4	Z	2
18XN4LMaster Project 4Z220XN4LMaster Project 4Z221XN4LMaster Project 4Z222XN4LMaster Project 4Z223XN4LMaster Project 4Z2	17XN4L	Master Project 4	Z	2
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21XN4L Master Project 4 Z 2 22XN4L Master Project 4 Z 2 23XN4L Master Project 4 Z 2	20XN4L	Master Project 4	Z	2
22XN4LMaster Project 4Z223XN4LMaster Project 4Z2	21XN4L	Master Project 4	Z	2
23XN4L Master Project 4 Z 2	22XN4L	Master Project 4	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-NKPL 23/24 Name of the group: PVP nav.kombi program PL 23/24 Requirement credits in the group: In this group you have to gain 8 credits

Requirement courses in the group: In this group you have to complete 4 courses Credits in the group: 8 Note on the group:

Note on the group	J.					
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
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 Tomáš Parýzek	KZ	2	2P+0C+8B	L	PV
14Y2UI	Artificial Intelligence	KZ	2	2P+0C+8B	Z,L	PV
Characteristics of the	courses of this group of Study Plan: Code=Y2-NKPL 23/24 N	Name=PVP nav	v.kombi p	orogram	PL 23/24	
21Y2FM Avi	ation Company Financial Management				KZ	2
Theories of corporate finance	e - financial statements, budget, forecast. Financial policy of the company. Financial	resources - long-te	rm financial	resources,	depreciation, r	etained
earnings, shares, bonds, loar	ns, leasing, capital. Financial and economic analysis of the company - structure and	d content.				
21Y2MQ Qua	ality Management				KZ	2
History, basic definition. Pion	eers in the field of quality. International quality organisations and quality promotion	in the Czech Repub	lic. Quality r	nanagemen	t system. Envi	ronmental
management systems. Integra	ated management systems. Risk management in the context of the requirements of	ISO standards. Sect	oral quality	managemer	nt systems. Cor	nprehensive
quality management, exceller	nce models and corporate social responsibility. Quality audits.					
21Y2MK Ma	rketing of Air Transport				KZ	2
The content of the course "M	arketing in air transport" is the management of activities and processes using availa	able marketing tools	and proces	ses for anal	ysis, strategy o	development
and implementation of sales	of goods and services in the aviation industry. In addition to the theoretical foundation	ons of marketing, th	e lectures p	oresent syste	ems of market,	competition
and product analysis, creation	n of marketing strategies and planning.					
21Y2MC CN	S Systems Modelling				KZ	2
The course is designed as a	set of model tasks in the field of communication navigation and surveillance system	s in aviation, addres	sed using r	nathematica	I approaches a	and software
tools. A large part is devoted	to air targets tracking, measurement-to-track association, track filtering and multise	ensor tracking.				
21Y2PP Law	v and Operation in Air Transport				KZ	2
Development of aviation law.	International conventions on civil aviation. International organisations and including	of the Czech Repu	blic in these	e organisatio	ns. EU legislat	ion and civil
aviation. Execution of state a	dministration and state supervision in matters of civil aviation, in accordance with A	ct No. 49/1997 Col.	Facilitation.	Responsibi	lities of air carr	iers for
passengers, luggage and car	rgo. The safe transport of dangerous goods.					
21Y2UL Airc	craft Maintenance				KZ	2
Approved Maintenance Orga	nisations (AMOs), Continuing Airworthiness Management Organisations (CAMOs),	Maintenance Trainir	ng Organisa	tions (MTOs	s), technical do	cumentation
and additional ICA (Instructio	ons for Continued Airworthiness) instructions, aircraft release to service procedure,	maintenance progra	immes and	scheduling,	modifications	and general
repair methods, aircraft centr	e of gravity and weights, human factors in aircraft maintenance.			-		
14Y2UI Arti	ificial Intelligence				KZ	2
History of artificial intelligence	e, knowledge, its representation including frames, state space search, constraints, o	genetic algorithms.	machine lea	arning.	I	

List of courses of this pass:

Code	Name of the course	Completion	Credits
11APAS	Applied Statistics	Z,ZK	4
Descriptive statistic	s, data preprocessing, discretize continuous data. Hypothesis testing - continuous and discrete variables. Regression and correlation a	analysis. Multivaria	ble methods
- multiple regress	ion analysis, logistic regression analysis, ROC curve, MANOVA, PCA, Factor analysis. Power analysis, preparation, processing and	evaluation of hte ex	<periment.< td=""></periment.<>
11MMJ	Mathematical Models and their Applications	Z,ZK	4
System. Regressi	on, discrete and logistic models. Bayesian estimation of model parameters. Parameter estimation of normal regression, discrete and	logistic models. Cla	assification
with logistic model	. One-step and multi-step prediction with regression and discrete models. State model. State estimation. Kalman filter. Control with regression and discrete models.	gression and discr	ete models.
11XN1	Master Project 1	Z	2
11XN2	Master Project 2	Z	2
11XN3L	Master Project 3	Z	2
11XN4L	Master Project 4	Z	2
12XN1	Master Project 1	Z	2
12XN2	Master Project 2	Z	2
12XN3L	Master Project 3	Z	2
12XN4L	Master Project 4	Z	2
14XN1	Master Project 1	Z	2

14XN2	Master Project 2	Z	2
14XN3L	Master Project 3	Z	2
14XN4L	Master Project 4	Z	2
14Y2UI	Artificial Intelligence	KZ	2
His	tory of artificial intelligence, knowledge, its representation including frames, state space search, constraints, genetic algorithms, mac	hine learning.	
15J2A1	Language - English 1 resentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work o	Z engagement.	2
15JBA2	Language - English 2	Z	2
Pi	resentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work of	engagement.	
15XN1	Master Project 1	Z	2
15XN2	Master Project 2	Z	2
15XN3L	Master Project 3	Z	2
15XN4L	Master Project 4	Z	2
16XN1	Master Project 1	Z	2
16XN2	Master Project 2	<u> </u>	2
16XN3L	Master Project 3	<u> </u>	2
16XN4L	Master Project 4	<u> </u>	2
17XN1	Master Project 1	<u> </u>	2
17XN2	Master Project 2	<u> </u>	2
17XN3L	Master Project 3	Ζ	2
17XN4L	Master Project 4	Ζ	2
18XN1	Master Project 1	Z 7	2
18XN2	Master Project 2	<u> </u>	2
18XN3L	Master Project 3	Z 7	2
18XN4L	Master Project 4	Z 7	2
20XN1	Master Project 1	Z 7	2
	Master Project 2	Z 7	2
20/1131	Master Project 3	Z 7	2
	Master Floject 4		5
Current ATM syste	m and its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Data ex	change with neigh	boring ATM
systems. Monitoring	systems and technical supervision. ATM simulation. ATM conceptions and strategies for next years. EUROCONTROL - CFMU. FAB. A	TS's - AOC's data a	applications.
21BILD	Safety Engineering in Aviation	Z,ZK	4
The course is focus	ed on understanding the issue of safety, learning how to assess new systems in terms of safety and acquiring principles of safety ma	anagement. Studer	nts will learn
0.4 ON 0.0	explaining accidents and incident causes and bridge their theoretical knowledge with practical problems of air transport.		_
21CNSS	CNS Systems	Z,ZK	j 5
211 FTS			
Methods of design	ing new airports and developing existing ones. Connection of the airport to the surrounding infrastructure. Airport economics. Detaile	ed look at the deve	lopment of
movement area	s. Certification of airside movement areas and procedures according to EASA CS-ADR-DSN. Development planning - design, prepar	ration and regulato	ry basis.
	Environmental aspects of airport operations.		
21MULD	Managerial Challenges in Air Transport	Z,ZK	5
The course conta	ins a list of basic managerial tasks in aviation. The basic managerial tasks are quality assurance and operational safety, marketing o airling network management fleet management and revenue management. The core disciplings also include project management of	perations, marketir	ng context
	resource planning and management.	ost management a	nu projeci
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, by	rightness
	transforms, geometric transforms, image compression.	7 71/	
21PEKL	Principles and Models in Air Transport Economics	L,ZK	j 5 dole markot
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.		
21PLET	Airport Operations	Z,ZK	5
Planning, design ar	nd modelling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport capacit	y. Available tools a	nd practices
040001	for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport master	erplan.	
21SPOL Subject deals with t	AIFCFATE TECHNOLOGY KEIIADIIITY		4 A
General legalities a	and of or separate attributes of reliability (no randie, vitality, maintainability, and so on) and main cherions of safety of production and work are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and they are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and they are in the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials and they are integral characteristics of materials are integral characteristics of materials and they are integral characteristics of materials are integral characteristics are integral char	/ are practical illus	tration of its
	security in The Czech Police Aviation Department.		
21XN1	Master Project 1	Z	2
21XN2	Master Project 2	Z	2
21XN3L	Master Project 3	Z	2
21XN4L	Master Project 4	Z	2
21Y2FM	Aviation Company Financial Management	KZ	2
I heories of corp	orate finance - financial statements, budget, forecast. Financial policy of the company. Financial resources - long-term financial resources - tructure and content - and	rces, depreciation	, retained
	carnings, shares, bonds, loans, leasing, capital. I mandal and economic analysis of the company - structure and content.		

21Y2MC	CNS Systems Modelling	KZ	2
The course is desig	ned as a set of model tasks in the field of communication navigation and surveillance systems in aviation, addressed using mathema	tical approaches a	ind software
	tools. A large part is devoted to air targets tracking, measurement-to-track association, track filtering and multisensor trackin	g.	
21Y2MK	Marketing of Air Transport	KZ	2
The content of the o	course "Marketing in air transport" is the management of activities and processes using available marketing tools and processes for a	inalysis, strategy d	levelopment
and implementation	of sales of goods and services in the aviation industry. In addition to the theoretical foundations of marketing, the lectures present s	ystems of market,	competition
	and product analysis, creation of marketing strategies and planning.		
21Y2MQ	Quality Management	KZ	2
History, basic defir	nition. Pioneers in the field of quality. International quality organisations and quality promotion in the Czech Republic. Quality manage	ment system. Env	ironmental
management syster	ns. Integrated management systems. Risk management in the context of the requirements of ISO standards. Sectoral quality manager	nent systems. Con	nprehensive
	quality management, excellence models and corporate social responsibility. Quality audits.		
21Y2PP	Law and Operation in Air Transport	KZ	2
Development of avi	ation law. International conventions on civil aviation. International organisations and including of the Czech Republic in these organis	ations. EU legislat	ion and civil
aviation. Execution	on 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
Approved Maintena	nce Organisations (AMOs), Continuing Airworthiness Management Organisations (CAMOs), Maintenance Training Organisations (M	TOs), technical doo	cumentation
and additional ICA	(Instructions for Continued Airworthiness) instructions, aircraft release to service procedure, maintenance programmes and scheduli	ng, modifications a	and general
	repair methods, aircraft centre of gravity and weights, human factors in aircraft maintenance.		
22XN1	Master Project 1	Z	2
22XN2	Master Project 2	Z	2
22XN3L	Master Project 3	Z	2
22XN4L	Master Project 4	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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