Recomended pass through the study plan

Name of the pass: Master Full-Time PL from 2025/26

Faculty/Institute/Others:

Department:

Pass through the study plan: Master Full-Time PL from 2024/25 Branch of study guranteed by the department: Welcome page

Guarantor of the study branch:

Program of study: Air Traffic Control and Management

Type of study: Follow-up master full-time

Note on the pass:

Coding of roles of courses and groups of courses:

P - compulsory courses of the program, PO - compulsory courses of the branch, Z - compulsory courses, S - compulsory elective courses, PV - compulsory elective courses, F - elective specialized courses, V - elective courses, T - physical training courses

Coding of ways of completion of courses (KZ/Z/ZK) and coding of semesters (Z/L):

KZ - graded assesment, Z - assesment, ZK - examination, L - summer semester, Z - winter semester

Number of semester: 1

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
21BILD	Safety Engineering in Aviation Natalia Guskova, Kate ina Grötschelová, Andrej Lališ Andrej Lališ	Z,ZK	4	2P+2C+12B	Z	Z
21CNSS	CNS Systems Stanislav Pleninger, Jakub Steiner Stanislav Pleninger	Z,ZK	5	3P+2C+16B	Z	Z
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
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
11MMJ	Mathematical Models and their Applications Evženie Uglickich, Pavla Pecherková, Ivan Nagy, Michal Matowicki, Natálie Blahitka Pavla Pecherková Evženie Uglickich (Gar.)	Z,ZK	4	2P+2C+12B	Z	Z
21PEKL	Principles and Models in Air Transport Economics Peter Vittek Peter Vittek	Z,ZK	5	4P+2C+16B	Z	Z
15JCZ1	Czech Language for Foreign Students 1 Irena Veselková	Z	0	0P+2C	Z	ZP
X2-NX-PL-22/23	Projekty Mgr. PL od 2022/23 11XN1,12XN1, (see the list of groups below)	Min. cours. 4 Max. cours. 4	Min/Max 8/8			ZP

Number of semester: 2

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
21AFM	Air Traffic Management Jakub Kraus, Terézia Pilmannová, Martina Hlavatá Jakub Kraus Jakub Kraus (Gar.)	Z,ZK	5	3P+2C+16B	L	Z
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
21MULD	Managerial Challenges in Air Transport Peter Vittek Peter Vittek Peter Vittek (Gar.)	Z,ZK	5	3P+2C+14B	L	Z
21PAM1	Programming and Modelling 1 Lenka Hanáková, Vladimír Socha Vladimír Socha Vladimír Socha (Gar.)	KZ	5	2P+4C+16B	L	Z
21PLET	Airport Operations Sébastien Lán, Petr Had, Ji í Volt Slobodan Stoji Slobodan Stoji (Gar.)	Z,ZK	5	2P+2C+12B	L	ZP

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
15JCZ2	Czech Language for Foreign Students 2 Irena Veselková	Z	0	0P+2C	L	Z
X2-NX-PL-22/23	Projekty Mgr. PL od 2022/23 11XN1,12XN1, (see the list of groups below)	Min. cours. 4 Max. cours. 4	Min/Max 8/8			ZP

Number of semester: 3

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members)	Completion	Credits	Scope	Semester	Role
15JCZ3	Tutors, authors and guarantors (gar.) Czech Language for Foreign Students 3 Irena Veselková	Z		0P+2C	Z	ZP
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	PV
21LIA1	Aviation Engineering English 1 Jitka He manová, Dana Boušová Jitka He manová	Z	3	0P+2C+8B	Z	V
11MMOA	Mathematical methods for data analysis Evženie Uglickich, Pavla Pecherková Pavla Pecherková Evženie Uglickich (Gar.)	Z,ZK	4	2P+2C+12B	Z	
21NSR	Navigation and Flight Control Systems Milan Kameník, Jakub Trýb, Jakub Hospodka, Ladislav Capoušek Jakub Hospodka	Z,ZK	5	3P+2C+14B	Z	
21PAM2	Programming and Modelling 2 Lenka Hanáková, Vladimír Socha Vladimír Socha	KZ	5	2P+4C+16B	Z	
21PLDC	Air Carrier Operations Miloš Strouhal Miloš Strouhal	Z,ZK	5	3P+2C+16B	Z	
21XNL1	Thesis seminar 1 Lenka Hanáková, Vladimír Socha Vladimír Socha	Z	2	0P+1C+4B	Z	
X2-NX-PL-22/23	Projekty Mgr. PL od 2022/23 11XN1,12XN1, (see the list of groups below)	Min. cours. 4 Max. cours. 4	Min/Max 8/8			ZP

Number of semester: 4

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
15JCZ4	Czech Language for Foreign Students 4 Irena Veselková	Z		0P+2C	L	ZP
21ELEG	European Aviation Legislation Radoslav Zozu ák Peter Vittek (Gar.)	ZK	3	2P+0C+8B	L	PV
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	V
21KST	Space Technology Jakub Trýb, Jakub Hospodka Jakub Hospodka (Gar.)	ZK	3	2P+0C+10B	L	
21LIA2	Aviation Engineering English 2 Jitka He manová, Dana Boušová	KZ	3	0P+2C+8B	L	
21LPZP	Air Traffic and the Environment Peter Vittek Lud k Be o (Gar.)	ZK	3	3P+0C+8B	L	
21NTLE	New Trends in Aviation Technologies Peter Vittek Peter Vittek Peter Vittek (Gar.)	KZ	3	3P+0C+8B	L	
14PROM	Process Modeling Marek Kalika Marek Kalika (Gar.)	KZ	2	2P+0C+8B	L	
21XNL2	Thesis Seminar 2 Lenka Hanáková, Vladimír Socha, Marta Urbanová Vladimír Socha Vladimír Socha (Gar.)	Z	2	0P+2C+6B	L	
21SYMS	System Thinking Jakub Kraus Jakub Kraus (Gar.)	ZK	3	2P+0C+8B	L	
X2-NX-PL-22/23	Projekty Mgr. PL od 2022/23 11XN1,12XN1, (see the list of groups below)	Min. cours. 4 Max. cours.	Min/Max 8/8			ZP

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List of groups of courses of this pass with the complete content of members of individual groups

Kód		Name of the grou group (for specific	p of courses a cation see here	nd codes of members of this or below the list of courses)	Completion	Credits	Scope	Semester	Role
X2-NX-	-PL-22/23	P	rojekty Mgr. PL	. od 2022/23	Min. cours. 4 Max. cours. 4	Min/Ma	x		ZP
11XN1	Master Pro	pject 1	12XN1	Master Project 1	14XN1	N	laster Projec	t 1	
15XN1	Master Pro	ect 1	16XN1	Master Project 1	17XN1	N	laster Projec	t 1	
18XN1	Master Pro	ect 1	20XN1	Master Project 1	21XN1	N	laster Projec	t 1	
22XN1	Master Pro	ject 1	11XN2	Master Project 2	12XN2	N	laster Projec	t 2	
14XN2	Master Pro	nject 2	15XN2	Master Project 2	16XN2	N	laster Projec	t 2	
17XN2	Master Pro	ject 2	18XN2	Master Project 2	20XN2	N	laster Projec	t 2	-
21XN2	Master Pro	ject 2	22XN2	Master Project 2	11XN3L	N	laster Projec	t 3	
12XN3L	Master Pro	ect 3	14XN3L	Master Project 3	15XN3L	N	laster Projec	t 3	
16XN3L	Master Pro	ect 3	17XN3L	Master Project 3	18XN3L	N	laster Projec	t 3	-
20XN3L	Master Pro	ect 3	21XN3L	Master Project 3	22XN3L	N	laster Projec	t 3	
11XN4L	Master Pro	oject 4	12XN4L	Master Project 4	14XN4L	N	laster Projec	t 4	
15XN4L	Master Pro	ject 4	16XN4L	Master Project 4	17XN4L	N	laster Projec	t 4	
18XN4L	Master Pro	ect 4	20XN4L	Master Project 4	21XN4L	N	laster Projec	t 4	
22XN4L	Master Pro	ject 4		1	I				

List of courses of this pass:

Code	Name of the course	Completion	Credits
11APAS	Applied Statistics	Z,ZK	4
Descriptive statistic	cs, data preprocessing, discretize continuous data. Hypothesis testing - continuous and discrete variables. Regression and correlation a	analysis. Multivaria	ble methods
- multiple regress	sion analysis, logistic regression analysis, ROC curve, MANOVA, PCA, Factor analysis. Power analysis, preparation, processing and	evaluation of hte ex	xperiment.
11MMJ	Mathematical Models and their Applications	Z,ZK	4
,	on, discrete and logistic models. Bayesian estimation of model parameters. Parameter estimation of normal regression, discrete and	•	
	. One-step and multi-step prediction with regression and discrete models. State model. State estimation. Kalman filter. Control with re	ř	ete models.
11MMOA	Mathematical methods for data analysis	Z,ZK	4
	c modelling, estimation, prediction, filtration, control, methods of data analysis - k-means, DBSCAN, naive Bayes, decision trees, sup	port vector machin	e.
11XN1	Master Project 1	Z	2
11XN2	Master Project 2	Z	2
11XN3L	Master Project 3	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
14PROM	Process Modeling	KZ	2
Definition of the pro	ocess, role, KPI's, areas of interest. Process Map, definition, purpose, clear examples and demonstrations, recommendations and stan	dards, SIPOC. Pro	cess model,
definition, purpos	se, procedures and tools, static and dynamic models. BPMN language, syntax and semantics, process flows. Implementation of prac	tical examples, As-	·Is, To-Be,
	optimization and evaluation.		т
14XN1	Master Project 1	Z	2
14XN2	Master Project 2	Z	2
14XN3L	Master Project 3	Z	2
14XN4L	Master Project 4	Z	2
15J2A1	Language - English 1	Z	2
Р	resentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work	engagement.	'
15JBA2	Language - English 2	Z	2
Р	resentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work	engagement.	•
15JBA3	Language - English 3	Z	2
Presentation Skill	s - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Op FCE, CAE.	tional courses for	certificates

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15JBA4	Language - English 4	ZK	2
Presentation Ski	lls - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Opt FCE, CAE.	tional courses for	certificates
45 1074		7	
15JCZ1	Czech Language for Foreign Students 1 es of Czech language, common communication situations, study, work, leisure time activities, introduction of myself, phonetics of Czec	Z	0
15JCZ2		7	T
	Czech Language for Foreign Students 2 es of Czech language, common communication situations, study, work, leisure time activities, introduction of myself, phonetics of Czec	L ab languaga writ	0
			ing skills.
15JCZ3	Czech Language for Foreign Students 3	Z	
45 1074	Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology.		1
15JCZ4	Czech Language for Foreign Students 4 Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology.	Z	
4.EVNI4		7	
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	Z	2
16XN3L	Master Project 3	Z	2
16XN4L	Master Project 4	Z	2
17XN1	Master Project 1	Z	2
17XN2	Master Project 2	Z	2
17XN3L	Master Project 2 Master Project 3	Z	2
17XN3L 17XN4L	•	Z	2
	Master Project 4		
18XN1	Master Project 1	Z	2
18XN2	Master Project 2	Z	2
18XN3L	Master Project 3	Z	2
18XN4L	Master Project 4	Z	2
20XN1	Master Project 1	Z	2
	M (D) ()	Z	2
20XN2	Master Project 2	_	_
20XN2 20XN3L	·	Z Z	2
20XN3L 20XN4L 21AFM Current ATM systo	Master Project 3 Master Project 4 Air Traffic Management em and its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Data except	Z Z Z,ZK change with neig	2 2 5 hboring ATM
20XN3L 20XN4L 21AFM Current ATM syste systems. Monitorin 21BILD	Master Project 3 Master Project 4 Air Traffic Management em and its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Data exing systems and technical supervision. ATM simulation. ATM conceptions and strategies for next years. EUROCONTROL - CFMU. FAB. AT Safety Engineering in Aviation	Z Z,ZK change with neig FS's - AOC's data Z,ZK	2 2 5 hboring ATM applications
20XN3L 20XN4L 21AFM Current ATM syste systems. Monitorin 21BILD	Master Project 3 Master Project 4 Air Traffic Management em and its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Data exing systems and technical supervision. ATM simulation. ATM conceptions and strategies for next years. EUROCONTROL - CFMU. FAB. ATM conceptions and strategies for next years.	Z Z,ZK change with neig FS's - AOC's data Z,ZK	2 2 5 hboring ATM applications
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20XN3L 20XN4L 21AFM Current ATM syste systems. Monitorin 21BILD The course is focu	Master Project 3 Master Project 4 Air Traffic Management em and its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Data exing systems and technical supervision. ATM simulation. ATM conceptions and strategies for next years. EUROCONTROL - CFMU. FAB. ATM Safety Engineering in Aviation Safety Engineering in Aviation seed on understanding the issue of safety, learning how to assess new systems in terms of safety and acquiring principles of safety may explaining accidents and incident causes and bridge their theoretical knowledge with practical problems of air transport. CNS Systems	Z Z,ZK change with neig rS's - AOC's data Z,ZK unagement. Stude Z,ZK	2 2 5 hboring ATM applications 4 ents will lear
20XN3L 20XN4L 21AFM Current ATM syste systems. Monitorin 21BILD The course is focu 21CNSS Course provides for 21ELEG	Master Project 3 Master Project 4 Air Traffic Management em and its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Data exing systems and technical supervision. ATM simulation. ATM conceptions and strategies for next years. EUROCONTROL - CFMU. FAB. ATM Safety Engineering in Aviation seed on understanding the issue of safety, learning how to assess new systems in terms of safety and acquiring principles of safety material explaining accidents and incident causes and bridge their theoretical knowledge with practical problems of air transport. CNS Systems Ill technical informations about CNS (communication, navigation, surveilance) systems used in aviation. Systems are presented in personal contents and incident causes.	Z Z,ZK change with neig rS's - AOC's data Z,ZK anagement. Stude Z,ZK pective of future of	2 2 5 5 hboring ATM applications 4 4 4 5 developmen 3
20XN3L 20XN4L 21AFM Current ATM syste systems. Monitorin 21BILD The course is focu 21CNSS Course provides for 21ELEG The content of the	Master Project 3 Master Project 4 Air Traffic Management em and its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Data extend a systems and technical supervision. ATM simulation. ATM conceptions and strategies for next years. EUROCONTROL - CFMU. FAB. ATM Safety Engineering in Aviation seed on understanding the issue of safety, learning how to assess new systems in terms of safety and acquiring principles of safety material explaining accidents and incident causes and bridge their theoretical knowledge with practical problems of air transport. CNS Systems Ull technical informations about CNS (communication, navigation, surveilance) systems used in aviation. Systems are presented in personal explaining accidents and criterial explaining is the legal regulation of air operation, the system and structure of the national and European at the Czech national environment and their impact on national regulation with a focus on requirements and criteria of individual regulation.	Z Z,ZK change with neig rS's - AOC's data Z,ZK anagement. Stude Z,ZK pective of future of ZK legal system, the	2 2 5 hboring ATM applications 4 horts will lear 5 developmen 3 e legal effect
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21NTLE			
	New Trends in Aviation Technologies	KZ	3
	des an introduction to all the technologies that are currently important to aviation, such as new aircraft design concepts, new types of		
viation fuels. The	course also covers new types of urban mobility, virtual reality systems, biomechanical analysis. ATM technologies are another compon	ent, and the cour	se also look
	at smart airports, the use of blockchain, and airport simulations.		_
21PAM1	Programming and Modelling 1	KZ	5
_	s, their generation. Real signals, sampling theorem, aliasing. Signal filtering. Fourier transform (FT), discrete Fourier transform (DFT), f		
Spectrum estim	ation, spectral power density. Image - basic processing methods, 2D Fourier transform, noise filtering, edge detection, linear and non-	linear methods, b	orightness
	transforms, geometric transforms, image compression.		T
21PAM2	Programming and Modelling 2	KZ	5
· ·	tistics, classical statistical analysis. Statistical hypothesis testing. Analysis of variance (ANOVA), one-factor, two-factor ANOVA. Non-pa		
regression. Corre	elation, correlation coefficient. Non-linear regression models, procedure for regression analysis of a non-linear model. Basics of machin	ne learning. Class	sification by
	nearest neighbour method. SVM classifiers. Decision trees.		
21PEKL	Principles and Models in Air Transport Economics	Z,ZK	5
	ns the most important and typical models on which the economics of air transport is based. It covers the principles of regulation, airline		
tructure, 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	s and the econon	nic principle
	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. Ca		
(organization) an	d economics of aircraft operation. Ground handling and other services. Safety / Security / Quality and Compliance monitoring. Revenue	e management. A	Air 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		and practice
	for increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airport maste	rplan.	
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 work		
Canaral lagalitica			
serierai iegaiilies	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 illus	stration of its
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21SYMS	security in The Czech Police Aviation Department. System Thinking cture, algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal setting, ur	are practical illus	stration of its
21SYMS System, its stru	security in The Czech Police Aviation Department. System Thinking cture, algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal setting, ur decision making under uncertainty.	ZK ncertainties and a	stration of its 3 arguments,
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