### Recomended pass through the study plan

### Name of the pass: Master Full-Time PL from 2024/25

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

	Name of the course (Name of the many of course	ı		г		
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 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
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 <b>Jakub Kraus</b> 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) Tutors, authors and guarantors (gar.)		Credits	Scope	Semester	Role
15JCZ3	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 <b>Jitka He manová</b>	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 <b>Jakub</b> 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			ZΡ

4				
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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 group o group (for specificati	f courses ar on see here	nd codes of members of this or below the list of courses)	Con	pletion	Credit	s Scope	Semester	Role
X2-NX-	PL-22/23	Proje	ekty Mgr. PL	od 2022/23		cours. 4 . cours. 4	Min/Ma	ax		ZP
11XN1	Master Pro	iject 1	12XN1	Master Project 1	<u> </u>	14XN1	1	 Master Projec	t 1	
15XN1	Master Pro	pject 1	16XN1	Master Project 1		17XN1		Master Projec	t 1	
18XN1	Master Pro	ject 1	20XN1	Master Project 1		21XN1		Master Projec	t 1	
22XN1	Master Pro	ject 1	23XN1	Master Project 1		11XN2		Master Projec	t 2	
12XN2	Master Pro	eject 2	14XN2	Master Project 2		15XN2		Master Projec	t 2	
16XN2	Master Pro	ject 2	17XN2	Master Project 2		18XN2		Master Projec	t 2	
20XN2	Master Pro	nject 2	21XN2	Master Project 2		22XN2		Master Projec	t 2	
23XN2	Master Pro	ect 2	11XN3L	Master Project 3 for study progr		12XN3L	İ	Master Projec	t 3 for study pro	ogr
14XN3L	Master Pro	eject 3 for study progr	15XN3L	Master Project 3 for study progr		16XN3L		Master Projec	t 3 for study pro	ogr
17XN3L	Master Pro	eject 3 for study progr	18XN3L	Master Project 3 for study progr		20XN3L		Master Projec	t 3 for study pro	ogr
21XN3L	Master Pro	ject 3 for study progr	22XN3L	Master Project 3 for study progr		23XN3L	İ	Master Projec	t 3	
11XN4L	Master Pro	eject 4 for study progr	12XN4L	Master Project 4 for study progr		14XN4L		Master Projec	t 4 for study pro	ogr
15XN4L	Master Pro	ject 4 for study progr	16XN4L	Master Project 4 for study progr		17XN4L		Master Projec	t 4 for study pro	ogr
18XN4L	Master Pro	ject 4 for study progr	20XN4L	Master Project 4 for study progr		21XN4L	Ì	Master Projec	t 4 for study pro	ogr
22XN4L	Master Pro	ject 4 for study progr	23XN4L	Master Project 4						

## List of courses of this pass:

Code	Name of the course	Completion	Credits
11APAS	Applied Statistics	Z,ZK	4
•	s, data preprocessing, discretize continuous data. Hypothesis testing - continuous and discrete variables. Regression and correlation a ion analysis, logistic regression analysis, ROC curve, MANOVA, PCA, Factor analysis. Power analysis, preparation, processing and continuous analysis.	•	
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	•	
11MMOA	Mathematical methods for data analysis	Z,ZK	4
Stocastic	modelling, estimation, prediction, filtration, control, methods of data analysis - k-means, DBSCAN, naive Bayes, decision trees, support	port vector machin	e.
11XN1	Master Project 1	Z	2
11XN2	Master Project 2	Z	2
11XN3L	Master Project 3 for study programme PL	Z	2
11XN4L	Master Project 4 for study programme PL	Z	2
12XN1	Master Project 1	Z	2
12XN2	Master Project 2	Z	2
12XN3L	Master Project 3 for study programme PL	Z	2
12XN4L	Master Project 4 for study programme PL	Z	2
14PROM	Process Modeling	KZ	2
•	cess, role, KPI's, areas of interest. Process Map, definition, purpose, clear examples and demonstrations, recommendations and stan se, procedures and tools, static and dynamic models. BPMN language, syntax and semantics, process flows. Implementation of prac optimization and evaluation.		
14XN1	Master Project 1	Z	2
14XN2	Master Project 2	Z	2
14XN3L	Master Project 3 for study programme PL	Z	2
14XN4L	Master Project 4 for study programme PL	Z	2
15J2A1 Pi	Language - English 1 resentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work	Z engagement.	2
15JBA2 Pi	Language - English 2 resentation Skills - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work	Z engagement.	2

15JBA3		-	
Presentation Skill	Language - English 3 s - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Op	Z tional courses for	2 certificates
r resemation oxiii	FCE, CAE.	ilonal courses for	cei illicates
15JBA4	Language - English 4	ZK	2
	s - expert technical discourse and style; Analysis of expert texts and their production; Preparation for overseas work engagement.Op		
	FCE, CAE.		
15JCZ1	Czech Language for Foreign Students 1	Z	0
Basic structure	s of Czech language, common communication situations, study, work, leisure time activities, introduction of myself, phonetics of Czech	ch language, writir	ng skills.
15JCZ2	Czech Language for Foreign Students 2	Z	0
	s of Czech language, common communication situations, study, work, leisure time activities, introduction of myself, phonetics of Czech	ch language, writir	ng skills.
15JCZ3	Czech Language for Foreign Students 3	Z	
	Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology.		ı
15JCZ4	Czech Language for Foreign Students 4	Z	
15XN1	Language structures with regard to the group level. Listening and oral fluency drill. Basic terminology.	7	
	Master Project 1	Z	2
15XN2	Master Project 2	Z	2
15XN3L	Master Project 3 for study programme PL	Z	2
15XN4L	Master Project 4 for study programme PL	Z	2
16XN1	Master Project 1	Z	2
16XN2	Master Project 2	Z	2
16XN3L	Master Project 3 for study programme PL	Z	2
16XN4L	Master Project 4 for study programme PL	Z	2
17XN1	Master Project 1	Z	2
17XN2	Master Project 2	Z	2
17XN3L	Master Project 3 for study programme PL	Z	2
17XN4L	Master Project 4 for study programme PL	Z	2
18XN1	Master Project 1	Z	2
18XN2	Master Project 2	Z	2
18XN3L	Master Project 3 for study programme PL	Z	2
18XN4L	Master Project 4 for study programme PL	Z	2
20XN1	Master Project 1	 Z	2
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20XN2	Master Project 2	7	2
20XN2	Master Project 2  Master Project 3 for study programme PI	Z	2
20XN3L	Master Project 3 for study programme PL	Z	2
20XN3L 20XN4L	Master Project 3 for study programme PL  Master Project 4 for study programme PL	Z Z	2
20XN3L 20XN4L 21AFM	Master Project 3 for study programme PL  Master Project 4 for study programme PL  Air Traffic Management	Z Z Z,ZK	2 2 5
20XN3L 20XN4L 21AFM Current ATM syste	Master Project 3 for study programme PL  Master Project 4 for study programme PL	Z Z Z,ZK change with neigh	2 2 5 aboring ATM
20XN3L 20XN4L 21AFM Current ATM syste	Master Project 3 for study programme PL  Master Project 4 for study programme PL  Air Traffic Management  m and its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Data ex g systems and technical supervision. ATM simulation. ATM conceptions and strategies for next years. EUROCONTROL - CFMU. FAB. A	Z Z Z,ZK change with neigh	2 2 5 aboring ATM
20XN3L 20XN4L 21AFM Current ATM syste systems. Monitoring 21BILD	Master Project 3 for study programme PL  Master Project 4 for study programme PL  Air Traffic Management  m and its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Data ex	Z Z,ZK change with neights's - AOC's data a	2 2 5 boring ATM applications 4
20XN3L 20XN4L 21AFM Current ATM syste systems. Monitoring 21BILD	Master Project 3 for study programme PL  Master Project 4 for study programme PL  Air Traffic Management  m and its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Data ex g systems and technical supervision. ATM simulation. ATM conceptions and strategies for next years. EUROCONTROL - CFMU. FAB. A Safety Engineering in Aviation	Z Z,ZK change with neights's - AOC's data a	2 2 5 boring ATM applications 4
20XN3L 20XN4L 21AFM Current ATM syste systems. Monitoring 21BILD	Master Project 3 for study programme PL  Master Project 4 for study programme PL  Air Traffic Management  m and its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Data ex g systems and technical supervision. ATM simulation. ATM conceptions and strategies for next years. EUROCONTROL - CFMU. FAB. A Safety Engineering in Aviation  sed on understanding the issue of safety, learning how to assess new systems in terms of safety and acquiring principles of safety may be safety and acquiring principles of safety may be safety and acquiring principles of safety may be safety and acquiring principles of safety may be safety and acquiring principles of safety may be safety and acquiring principles of safety may be safety and acquiring principles of safety may be safety and acquiring principles of safety may be safety and acquiring principles of safety may be safety and acquiring principles of safety may be safety and acquiring principles of safety may be safety and acquiring principles of safety may be safety and acquiring principles of safety may be safety and acquiring principles of safety may be safety and acquiring principles of safety may be safety and acquiring principles of safety may be safety and acquiring principles of safety may be safety as safety.	Z Z,ZK change with neights's - AOC's data a	2 2 5 boring ATM applications 4
20XN3L 20XN4L 21AFM Current ATM syste systems. Monitoring 21BILD The course is focus 21CNSS	Master Project 3 for study programme PL  Master Project 4 for study programme PL  Air Traffic Management  m and its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Data ex g systems and technical supervision. ATM simulation. ATM conceptions and strategies for next years. EUROCONTROL - CFMU. FAB. A Safety Engineering in Aviation  sed 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.	Z Z,ZK change with neights's - AOC's data a Z,ZK unagement. Studer	2 2 5 boring ATM applications 4 nts will learn
20XN3L 20XN4L 21AFM Current ATM syste systems. Monitoring 21BILD The course is focus 21CNSS	Master Project 3 for study programme PL  Master Project 4 for study programme PL  Air Traffic Management  m and its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Data ex a systems and technical supervision. ATM simulation. ATM conceptions and strategies for next years. EUROCONTROL - CFMU. FAB. A Safety Engineering in Aviation  sed 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 neights's - AOC's data a Z,ZK unagement. Studer	2 2 5 boring ATM applications 4 nts will learn
20XN3L 20XN4L 21AFM Current ATM systems. Monitoring 21BILD The course is focus 21CNSS Course provides ful 21ELEG The content of the secondary	Master Project 3 for study programme PL  Master Project 4 for study programme PL  Air Traffic Management  m and its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Data ex g systems and technical supervision. ATM simulation. ATM conceptions and strategies for next years. EUROCONTROL - CFMU. FAB. A Safety Engineering in Aviation  sed 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  I technical informations about CNS (communication, navigation, surveilance) systems used in aviation. Systems are presented in persecution and structure of the national and European Subject "European Aviation Legislation" is the legal regulation of air operation, the system and structure of the national and European	Z Z,ZK change with neights's - AOC's data a Z,ZK anagement. Student Z,ZK pective of future d ZK legal system, the	2 2 5 boring ATM applications 4 hts will learn 5 evelopment 3 legal effects
20XN3L 20XN4L 21AFM Current ATM systems. Monitoring 21BILD The course is focus 21CNSS Course provides ful 21ELEG The content of the secondary	Master Project 3 for study programme PL  Master Project 4 for study programme PL  Air Traffic Management  m and its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Data ex a systems and technical supervision. ATM simulation. ATM conceptions and strategies for next years. EUROCONTROL - CFMU. FAB. A Safety Engineering in Aviation  sed 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  It technical informations about CNS (communication, navigation, surveillance) systems used in aviation. Systems are presented in personal subject "European Aviation Legislation" is the legal regulation of air operation, the system and structure of the national and European the Czech national environment and their impact on national regulation with a focus on requirements and criteria of individual regulation.	Z Z,ZK change with neights's - AOC's data a Z,ZK anagement. Student Z,ZK pective of future d ZK legal system, the	2 2 5 boring ATM applications 4 hts will learn 5 evelopment 3 legal effects
20XN3L 20XN4L 21AFM Current ATM systet ystems. Monitoring 21BILD The course is focus 21CNSS Course provides ful 21ELEG The content of the soft EU legal acts in	Master Project 3 for study programme PL  Master Project 4 for study programme PL  Air Traffic Management  m and its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Data expresses and technical supervision. ATM simulation. ATM conceptions and strategies for next years. EUROCONTROL - CFMU. FAB. A Safety Engineering in Aviation  sed 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  I technical informations about CNS (communication, navigation, surveilance) systems used in aviation. Systems are presented in personal subject "European Aviation Legislation" is the legal regulation of air operation, the system and structure of the national and European the Czech national environment and their impact on national regulation with a focus on requirements and criteria of individual regulation transportation.	Z Z,ZK change with neights's - AOC's data a Z,ZK anagement. Student Z,ZK pective of future d ZK legal system, the ions on aviation tr	2 2 5 boring ATM applications 4 hts will learn 5 evelopment 3 legal effects ansport and
20XN3L 20XN4L 21AFM Current ATM syster systems. Monitoring 21BILD The course is focus 21CNSS Course provides ful 21ELEG The content of the soff EU legal acts in 21KST	Master Project 3 for study programme PL  Master Project 4 for study programme PL  Air Traffic Management  m and its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Data expresses and technical supervision. ATM simulation. ATM conceptions and strategies for next years. EUROCONTROL - CFMU. FAB. A Safety Engineering in Aviation  sed 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  I technical informations about CNS (communication, navigation, surveilance) systems used in aviation. Systems are presented in personal subject "European Aviation Legislation" is the legal regulation of air operation, the system and structure of the national and European the Czech national environment and their impact on national regulation with a focus on requirements and criteria of individual regulation.  Space Technology	Z Z,ZK change with neights's - AOC's data a Z,ZK anagement. Student Z,ZK pective of future d ZK legal system, the ions on aviation tr	2 2 5 boring ATM applications 4 nts will learn 5 evelopment 3 legal effects ansport and
20XN3L 20XN4L 21AFM Current ATM systems. Monitoring 21BILD The course is focus 21CNSS Course provides ful 21ELEG The content of the soft EU legal acts in 21KST Universe and its ba	Master Project 3 for study programme PL  Master Project 4 for study programme PL  Air Traffic Management  m and its functional blocks. View of ATM data (technical architecture and configuration, transmission systems and networks). Data expresses and technical supervision. ATM simulation. ATM conceptions and strategies for next years. EUROCONTROL - CFMU. FAB. A 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  I technical informations about CNS (communication, navigation, surveilance) systems used in aviation. Systems are presented in personal subject "European Aviation Legislation" is the legal regulation of air operation, the system and structure of the national and European the Czech national environment and their impact on national regulation with a focus on requirements and criteria of individual regulation.  Space Technology sic characteristics. Fundamentals of astrophysics. Kepler's laws. Solar system. Earth's and its atmosphere and outer space. Space to	Z Z,ZK change with neights's - AOC's data a Z,ZK anagement. Student Z,ZK pective of future d ZK legal system, the ions on aviation tr ZK ansport vehicles.	2 2 5 boring ATM applications 4 nts will learn 5 evelopment 3 legal effects ansport and Rockets and
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	Navigation and Flight Control Systems	Z,ZK	5
The course includes ar	Navigation. Radionavigation. Satellite navigation. Flight management system. Autopilot. FMC. Practical execution of	1 '	, 3
The course includes ar	New Trends in Aviation Technologies	KZ	3
	introduction to all the technologies that are currently important to aviation, such as new aircraft design concepts, new ty	l l	_
	e also covers new types of urban mobility, virtual reality systems, biomechanical analysis. ATM technologies are another of		
	at smart airports, the use of blockchain, and airport simulations.	, ,	
21PAM1	Programming and Modelling 1	KZ	5
l l	generation. Real signals, sampling theorem, aliasing. Signal filtering. Fourier transform (FT), discrete Fourier transform	l	_
Spectrum estimation,	spectral power density. Image - basic processing methods, 2D Fourier transform, noise filtering, edge detection, linear a	and non-linear methods, b	rightness
	transforms, geometric transforms, image compression.		
21PAM2	Programming and Modelling 2	KZ	5
Descriptive statistics	classical statistical analysis. Statistical hypothesis testing. Analysis of variance (ANOVA), one-factor, two-factor ANOVA	. Non-parametric method	s. Linear
regression. Correlation	correlation coefficient. Non-linear regression models, procedure for regression analysis of a non-linear model. Basics of	f machine learning. Class	ification by
	nearest neighbour method. SVM classifiers. Decision trees.		
21PEKL	Principles and Models in Air Transport Economics	Z,ZK	5
	most important and typical models on which the economics of air transport is based. It covers the principles of regulation		
tructure, analyses airlin	e costs, and looks in detail at the low-cost and charter airline model. It also focuses on airline alliances, air cargo, airline s	strategies and the econom	nic principles
	of safety and security.		
21PLDC	Air Carrier Operations	Z,ZK	5
·	nce of air transport. Legislation. Airlines - structure, strategy. Performances in air transport. Cost structure. Fuel manager	•	
(organization) and ecor	omics of aircraft operation. Ground handling and other services. Safety / Security / Quality and Compliance monitoring.	Revenue management. A	ir transport
	and environment.		
21PLET	Airport Operations	Z,ZK	5
• •	delling of airport processes in airside, landside and terminal buildings. Impact of infrastructure and equipment on airport		nd practices
	or increasing capacity. Operational analytics, capacity and traffic load forecasting. Purpose and development of an airpo		1
21SPOL	Aircraft Technology Reliability	Z,ZK	4
=	of separate attributes of reliability (no failure, vitality, maintainability, and so on) and main criterions of safety of production a	= :	
serierai iegaililes are iri	the framework of tuition demonstrated on the example of calculation of reliability of integral characteristics of materials a security in The Czech Police Aviation Department.	and they are practical illus	stration of its
24 CV/MC		ZK	2
21SYMS	System Thinking  algorithmization, complexity, emergence, mind setting, critical thinking, teamwork, feedback and communication, goal se		3
System, its structure,	decision making under uncertainty.	and a	rguments,
21XN1	Master Project 1	Z	2
21XN2	•	Z	2
	Master Project 2		
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
	ublications, publications devoted to scientific writing, grey literature, difference between bachelor and master thesis. Tim	-	
	resetting, typography, paragraphing, transitions between paragraphs. LaTeX. Research, databases, critical work with te	ext, digital notes, working	with notes,
	outline. Rhetorical exercises / presentation skills.		
design, mathematical t	TI . O . O		
design, mathematical t	Thesis Seminar 2	Z	2
design, mathematical t	the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentation	tion of results. Graphic de	sign of the
design, mathematical t	the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presental raphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rh	tion of results. Graphic de	sign of the
design, mathematical to the state of the sta	the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presental raphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rh	tion of results. Graphic de etorical exercises / preser	sign of the
21XNL2 Selected chapters from vork, own and adopted c	the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presental raphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rh Specifics of state exams.  Master Project 1	tion of results. Graphic de etorical exercises / preser	sign of the ntation skills
design, mathematical to the design and the design a	the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presental raphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rh Specifics of state exams.  Master Project 1  Master Project 2	tion of results. Graphic de etorical exercises / preser	sign of the ntation skills
21XNL2   Selected chapters from york, own and adopted general 22XN1   22XN2   22XN3L	the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presental raphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhe Specifics of state exams.  Master Project 1  Master Project 2  Master Project 3 for study programme PL	tion of results. Graphic de etorical exercises / preser	sign of the ntation skills
design, mathematical to 21XNL2 Selected chapters from york, own and adopted grant 22XN1 22XN2	the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presental raphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rh Specifics of state exams.  Master Project 1  Master Project 2	tion of results. Graphic de etorical exercises / preser	sign of the ntation skills
21XNL2   Selected chapters from york, own and adopted grant 22XN1   22XN2   22XN3L	the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentar raphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhe Specifics of state exams.  Master Project 1  Master Project 2  Master Project 3 for study programme PL  Master Project 4 for study programme PL	tion of results. Graphic de etorical exercises / preser	sign of the ntation skills
21XNL2 Selected chapters from york, own and adopted grant 22XN1 22XN2 22XN3L 22XN4L 23XN1	the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presental raphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhe Specifics of state exams.  Master Project 1  Master Project 2  Master Project 3 for study programme PL  Master Project 4 for study programme PL  Master Project 1	tion of results. Graphic de etorical exercises / preser	sign of the ntation skills  2 2 2 2 2
21XNL2 Selected chapters from york, own and adopted g 22XN1 22XN2 22XN3L 22XN4L	the structure. PRISMA and meta-analysis methods. Citation, citation managers. English. Statistical inference. Presentar raphics. Ethical principles in scientific work, publishing process, journals (impacted, open access, predatory journals). Rhe Specifics of state exams.  Master Project 1  Master Project 2  Master Project 3 for study programme PL  Master Project 4 for study programme PL	tion of results. Graphic de etorical exercises / preser	sign of the station skills  2 2 2 2 2

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