Study plan

Name of study plan: Bachelor TET-LED Part-Time from 2025/26

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch:

Program of study: Technology in Transportation and Telecommunications

Type of study: Bachelor combined

Required credits: 166
Elective courses credits: 14
Sum of credits in the plan: 180

Note on the plan:

Name of the block: Compulsory courses Minimal number of credits of the block: 166

The role of the block: Z

Code of the group: 1S-BK-TET-24/25

Name of the group: 1st Sem. Bachelor Part-Time TET from 2024/25

Requirement credits in the group: In this group you have to gain 30 credits

Requirement courses in the group: In this group you have to complete 8 courses

Credits in the group: 30 Note on the group:

Note on the 9	noup.					
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
11CAL1	Calculus 1 Tomáš Třasák, Olga Vraštilová, Magdalena Hykšová, Bohumil Kovář, Ondřej Navrátil Bohumil Kovář Ondřej Navrátil (Gar.)	Z,ZK	7	2P+4C+22E	Z	Z
11LA	Linear Algebra Magdalena Hykšová, Lucie Kárná, Pavel Provinský, Martina Bečvářová Magdalena Hykšová Martina Bečvářová (Gar.)	Z,ZK	3	2P+1C+10E	Z	Z
12ZADK	Introduction to Transportation Engineering Dagmar Kočárková, Jana Štikarová	Z,ZK	5	12B	Z	Z
18MTY	Materials Science and Engineering Tomáš Doktor, Jaromír Kylar, Veronika Drechslerová, Nela Krčmářová, Jitka Řezníčková, Jaroslav Valach, Vít Malinovský, Jaromír Kylar Jaroslav Valach Tomáš Doktor (Gar.)	Z,ZK	3	2P+1C+10E	Z	Z
11GIE	Geometry Pavel Provinský, Oldřich Hykš, Šárka Voráčová Oldřich Hykš Oldřich Hykš (Gar.)	KZ	3	2P+2C+12E	Z	Z
14ASD	Algorithm and Data Structures Tomáš Brandejský, Michal Jeřábek, Alena Kubáčová, Jan Procházka, Vít Fábera, Martin Fiala, Lukáš Svoboda, Tereza Panská Vít Fábera Vít Fábera (Gar.)	KZ	3	0P+2C+8E	Z	Z
18TKK	Technical Drawing and Designing Jitka Řezničková, Vít Malinovský, Lukáš Svoboda, Jan Šleichrt, Martin Brumovský, Jan Mejstřík, Drahomír Schmidt, Jan Vogl, Jiří Zeisek, Jan Šleichrt Jan Šleichrt (Gar.)	KZ	4	2P+2C+16E	Z	Z
16UDOP	Introduction into Vehicles Zuzana Radová, Petr Bouchner	Z	2	2P+0C+8E	Z	Z

Characteristics of the courses of this group of Study Plan: Code=1S-BK-TET-24/25 Name=1st Sem. Bachelor Part-Time TET from 2024/25

11CAL1 Calculus 1 Z,ZK 7							
Sequence of real number	Sequence of real numbers and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative. Indefinite integral, Newton integral, Riemann integral, imprope						
Riemann integral. First-	order differential equations, linear differential equations.						
11LA	I1LA Linear Algebra Z,ZK 3						
Vector spaces (linear co	mbinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and	their solvability. D	eterminants and				
their applications. Scala	neir applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classification.						
12ZADK	Introduction to Transportation Engineering	Z,ZK	5				

18MTY	Materials Science and Engineering	Z,ZK	3
Basic course of material	s science and engineering explains mechanical properties of structural materials based on their bonding forces and microstru	cture. However th	e main attention
is paid to metals as the r	most important engineering materials, also other major classes of materials are presented, namely ceramics, polymers and c	composites. Atten	tion is also paid
to degradation processe	s in materials, to defectoscopy and to main mechanical tests.		
11GIE	Geometry	KZ	3
Differential geometry of	curves - parameterization, the arc of the curve, torsion and curvature, Frenet`s trihedron. Kinematics - a curve as a trajector'y	of the motion, th	e velocity, and
acceleration of a particle	e moving on a curved path.		
14ASD	Algorithm and Data Structures	KZ	3
Students will analyze pro	oblems, design a theoretical solution to a given problem and write the resulting algorithm using flowcharts, practice reading al	gorithms written i	sing flowcharts,
and use basic Boolean a	algebra to construct constraints in algorithms. Students will be introduced to the basics of the Python programming language	 variable, branch 	ning, loops, they
will learn to work with va	riables of basic data types (integer, floating point and string) and the list data structure in their programs.		
18TKK	Technical Drawing and Designing	KZ	4
16UDOP	Introduction into Vehicles	Z	2
Vehicles and transportat	ion systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and wa	iter transport. Alte	ernative means
of transport. Lifting equip	oment and conveyors. Legislation.		

Code of the group: 2S-BK-TET-24/25

Name of the group: 2nd Sem. Bachelor Part-Time TET from 2024/25

Requirement credits in the group: In this group you have to gain 30 credits

Requirement courses in the group: In this group you have to complete 8 courses

Credits in the group: 30 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
11CAL2	Calculus 2 Magdalena Hykšová	Z,ZK	5	2P+3C+20E	B L	Z
11STAT	Statistics	Z,ZK	4	2P+2C+12E	B L	Z
12ZTS	Railway Lines and Stations	Z,ZK	4	2P+2C+10E	B L	Z
18SAT	Structural Analysis	Z,ZK	4	2P+2C+14E	L	Z
20SYSA	Systems Analysis	Z,ZK	5	2P+2C+14E	L	Z
14PRG	Programming Jana Kaliková	KZ	2	0P+2C+8E	L	Z
17TEDK	Transport Technology and Logistics	KZ	4	12B	L	Z
21ZALD	Basics of Air Transport	KZ	2	0P+2C+8E	B L	Z

Characteristics of the courses of this group of Study Plan: Code=2S-BK-TET-24/25 Name=2nd Sem. Bachelor Part-Time TET from 2024/25

2024/25	•		
11CAL2	Calculus 2	Z,ZK	5
Linear differential ed	uations and their systems, differential calculus of functions of several real variables. Riemann integral in Rn. Line and surface in	itegrals.	
11STAT	Statistics	Z,ZK	4
Basics of probability	Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Parar	netric tests Nonpar	rametric tests
Regression and cor	elation analysis		
12ZTS	Railway Lines and Stations	Z,ZK	4
Rail transport. Railw	ay track geometry parameters. Route layout of railway lines. Railway line construction - railway substructure and superstructure	Spatial layout of ra	ailway lines.
Railway control syst	ems in relation to infrastructure. Operating and carriage points. Railway lines net and category. Traction in rail transport.		
18SAT	Structural Analysis	Z,ZK	4
General system of f	pres in plane and space. Calculation of reactions of bodies and structures. Assessment of internal forces on statically determin	ate beams and sim	ıple girders.
Principle of virtual w	ork. Kinematic method for calculation of reactions of statically determinate systems. Determination of axial forces in truss constructi	ons. Cross-sectiona	al characteristics
of planar shapes. Fi	per polygons and chains.		
20SYSA	Systems Analysis	Z,ZK	5
Introduction to syste	m sciences, system viewpoint, terminology, typical system analysis tasks, system identification, system interface and interface to	asks, processes, sy	stem behaviour
	ng functions and processes, genetic code, system identity, system architecture. Tools for system analysis - Petri nets, decision	tables, algorithms f	or structural
tasks. Soft and hard	systems, methods for soft system analysis.		
14PRG	Programming	KZ	2
The Course Program	nming builds on and fully extends the course 14ASD (Algorithmization and Data Structures). The knowledge of the Python prog	ramming language	is expanded
•	icipant gains skills and can apply them to solve various follow-up tasks. Main topics: lists, multidimensional arrays, sorting and s	earching, tuples, se	ets, dictionaries,
working with date a	d time, regular expressions, functions and procedures, working with files (CSV, JSON, XML).		
17TEDK	Transport Technology and Logistics	KZ	4
Basic terms in trans	port technology and logistics, particular steps of transport planning, line planning, timetabling, planning in pasanger and freight	transport, organisa	tion of traffic in
each transport mod	is, technologic factors of the side of operator and client, organisation of city transport, logistic technologies and their aplication	using various trans	port modus.
21ZALD	Basics of Air Transport	KZ	2
	erminology, basic rules. VFR/IFR. Basics of aerodynamics. Propulsion of aircraft. Aircraft design. Basics of navigation, radio navigation	•	
Flight planning, opti	nization of speed and heights, minimum fuel. Limitations of operation, maintenance, service life of aircraft. Traffic management,	ground handling, se	acurity. Air crew.
Airlines and econon	ics. Space technologies.		

Code of the group: 3S-BK-TET-25/26

Name of the group: 3rd Sem. Bachelor Part-Time TET from 2025/26

Requirement credits in the group: In this group you have to gain 30 credits

Requirement courses in the group: In this group you have to complete 8 courses

Credits in the group: 30 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
11FYZ	Physics Oldřich Hykš, Pavel Demo, Zuzana Malá, Tomáš Vítů, Jana Kuklová Jana Kuklová Pavel Demo (Gar.)	Z,ZK	5	2P+2C+18E	B Z	Z
12MDE	Transport Models and Transport Excesses Tomáš Padělek, Josef Kocourek	Z,ZK	3	2P+1C+8E	B Z	Z
11TGA	Graph Theory and its Applications in Transport Alena Rybičková, Denisa Mocková, Dušan Teichmann Alena Rybičková Alena Rybičková (Gar.)	Z,ZK	4	2P+2C+12E	B Z	Z
18PZP	Elasticity and Strength Tomáš Doktor, Jitka Řezničková, Jan Šleichrt, Josef Jíra, Jan Vyčichl, Daniel Kytýř, Ondřej Jiroušek Ondřej Jiroušek (Gar.)	Z,ZK	3	2P+1C+10E	B Z	Z
20UITS	Introduction to Intelligent Transport Systems Martin Šrotýř, Martin Langr, Jiří Růžička, Patrik Horažďovský, Vladimír Faltus, Pavel Hrubeš, Kristýna Navrátilová, Eva Hajčiarová Martin Langr	Z,ZK	7	3P+2C+20E	B Z	Z
12PPOK	Designing Roads, Highways and Motorways Tomáš Padělek, Josef Kocourek, Petr Kumpošt Josef Kocourek (Gar.)	KZ	3	1P+2C+10E	B Z	Z
14DATS	Database Systems Jan Krčál, Jana Kaliková Jana Kaliková (Gar.)	KZ	2	1P+1C+10E	B Z	Z
15JZ1A	Foreign Language - English 1 Markéta Vojanová, Dana Boušová, Marie Michlová, Marek Tomeček, Jan Feit, Markéta Musilová, Peter Morpuss, Jitka Heřmanová, Eva Rezlerová Lenka Monková (Gar.)	Z	3	0P+4C+10E	3 Z	Z

Characteristics of the courses of this group of Study Plan: Code=3S-BK-TET-25/26 Name=3rd Sem. Bachelor Part-Time TET from 2025/26

11FYZ	Physics	Z,ZK	5
Kinematics, dynamic	s, Newton's laws, force fields, mechanics of continuum, thermodynamics, introduction to electrostatics and electric current.		
12MDE	Transport Models and Transport Excesses	Z,ZK	3
Parameters of the tra	ffic flow and methods for their measurement. Models of the traffic flow, communications load, line and urban systems. Theory c	f queues, shock w	aves. Quality of
transport and its asso safety and fluency.	essment. Statistical characteristics of transport. Transport excesses, their analysis, the causes, identify and minimize the conse	quences. Improvin	g of transport
11TGA	Graph Theory and its Applications in Transport	Z,ZK	4
Basic terms of graph	theory, paths in graphs, flows in networks, location problems, design problems on graphs, optimum routing, use of graphs in of	her scientific disci	plines.
18PZP	Elasticity and Strength	Z,ZK	3
Tension and compres	sion. Bending of beam. Shear stress in bending of beam. Design and analysis of cross section of beam. Design of riveted, bolt	ed and welded joir	its of structures.
Analysis of deflection	curve of beams. Torsion of circular cross sections. Combined loading. Stability.		
20UITS	Introduction to Intelligent Transport Systems	Z,ZK	7
Terminology and legis	lative framework telematics systems and their architecture. Telematics systems in practice and their operation. Fundamentals of i	nformation and tele	ecommunication
systems for ITS. Prin	ciples and technical support measurement of traffic data, localization and navigation. Practical work with traffic data. Real exam	ples of possible ap	plications of the
principles of ITS.			
12PPOK	Designing Roads, Highways and Motorways	KZ	3
Definition, types, owr	ership, maintenance, management and categorization of roads and highways. Curve and transition curve. Sinuosity and stand	ard speed. Route i	n rural areas.
Range of vision for st	opping and overtaking. Road body - shapes and proportions, bottom and superstructure. Drainage and components of roads. S	afety device. Cros	sings, junctions,
intersections.			
14DATS	Database Systems	KZ	2
Basic concepts of da	abase systems, conceptual model, relational data model, the principles of normal forms, relational database design, security a	nd integrity of data	a, database
queries, relational alg	ebra, SQL language, client / server, multilayer architectures, distributed database systems. Access to data via the WWW.		
15JZ1A	Foreign Language - English 1	Z	3
Grammatical Structur	es and Style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and	d communicative s	kills. Elementary
stylistics forms. Oral	and written presentation of original research. Academic text principles and reading comprehension. Principles of rhetoric.		

Code of the group: 4S-BK-LED-25/26

Name of the group: 4th Sem. Bachelor Part-Time TET-LED from 2025/26 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 10 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
11EMO	Electromagnetic Field and Optics Zuzana Malá	Z,ZK	4	2P+1C	L	Z
21LEIS	Aerodromes	Z,ZK	3	2P+1C	L	Z
21RELP	Air Traffic Control	Z,ZK	4	3P+1C	L	Z
21ZT	ATM Systems	ZK	2	2P+0C	Z,L	Z
21ZYT1	Principles of Flight 1 Jakub Trýb	Z,ZK	3	2P+1C	L	Z
16LLA1	Aircraft 1	KZ	3	2P+1C	L	Z
21RIBZ	Aviation Safety Andrej Lališ	KZ	2	2P+0C	L	Z
14PGP	Program Resources Michal Jeřábek	Z	2	0P+2C	Ĺ	Z
21SBL1	Bachelor Thesis Seminar 1 Lenka Hanáková	Z	1	1P+0C	L	Z
15JL2A	Foreign language - English 2 (for LED)	KZ	2	0P+2C	L	Z

Characteristics of the courses of this group of Study Plan: Code=4S-BK-LED-25/26 Name=4th Sem. Bachelor Part-Time TET-LED from 2025/26

11EMO	Electromagnetic Field and Optics	Z,ZK	4
Electric field. Electric cu	rrent. Magnetic field. Electromagnetic field. Optics. Basics of solid-state physics.		
21LEIS	Aerodromes	Z,ZK	3
Basic definitions. Applic	ability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mar	kings of movemer	ıt areas.
Markings. Signs. Marker	s. Visual aids for denoting obstacles. Obstacle restriction, removal. Visual aids for navigation, lights, approach lighting system	s. Visual approact	n slope indicator
systems. Runway lights.	Taxiway lights. Visual aids for denoting obstacles.		
21RELP	Air Traffic Control	Z,ZK	4
21ZT	ATM Systems	ZK	2
The course introduces of	lassical and modern facilities, systems and technologies designated for ATS. Student obtains knowledge of technical princip	les and solutions	as far as
communication, navigat	ion and surveillance aviation systems are concerned.		
21ZYT1	Principles of Flight 1	Z,ZK	3
Aerodynamic drag, relat	ion between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and	d pressures aroun	d wing, angle of
attack, reactions of wing	in air flow, lift and drag of a wing and an aircraft, coefficient of lift and drag, critical angle of attack, wing with final span, indu	ced drag, interfere	nce, devices for
lift and drag increase.			
16LLA1	Aircraft 1	KZ	3
Aircraft structural and co	onceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions an	d categorisation.	Aircraft loadings.
Systems of primary and	secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topics.		
21RIBZ	Aviation Safety	KZ	2
The course contains top	ics related to the safety management and structure of the SMS. This includes a description of the SMS mechanisms and tools, $\hat{f u}$	ised to ensure the	safe operations.
During the course, stude	ents are continuously working on the semestral assignment, which helps them to understand practical application of the SMS	5.	
14PGP	Program Resources	Z	2
Students will be reminde	ed of some aspects of Pythom programming, learn basic concepts and constructs from object-oriented programming and the	eir implementation	in Python. They
will also try out the basic	cs of working with data libraries in Python, namely NumPy, Pandas, Matplotlib, and practice with examples of smaller and lar	ger data sizes.	
21SBL1	Bachelor Thesis Seminar 1	Z	1
Types of thesis (review,	applied research, basic research, thesis dealing with design proposals). Working with citation sources (citation sources, citati	on databases, cita	ation styles, how
to cite). Analyzing the st	ate of the art (standards of research writing). Defining the limitations of the state of the art. Introduction to the thesis method	ology.	
15JL2A	Foreign language - English 2 (for LED)	KZ	2
Grammar and technical	vocabulary. Selection of conversation topics and professional topics based on students' level and their focus at Faculty of Trans	sportation Science	es. Development
of perceptive and comm	unication skills, ability to give feedback, summarization of a technical text, presentation structure, technical style and its usag	ge, language of m	anagement.

Code of the group: 5S-BK-LED-26/27

Name of the group: 5th Sem. Bachelor Part-Time TET-LED from 2026/27 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 11 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
16LLA2	Aircraft 2 Jan Slezáček, Karel Hylmar, Daniel Urban, Karel Mündel	Z,ZK	2	2P+1C	Z	Z
21LGCE	Air Navigation Jan Slezáček	Z,ZK	3	2P+0C	Z	Z
21LGVP	Legislation and Operational Regulations Martin Černotík Martin Černotík (Gar.)	ZK	4	3P+0C	Z	Z

21ZYT2	Principles of Flight 2 Jakub Trýb, Přemysl Vávra Jakub Trýb	Z,ZK	3	2P+1C	Z	Z
22SELN	Air Accident Investigation Karel Mündel, Michal Frydrýn Michal Frydrýn Karel Mündel (Gar.)	ZK	2	2P+0C	Z	Z
14ZDAL	Data processing in air transport Martin Šrotýř Martin Šrotýř Martin Šrotýř (Gar.)	KZ	2	0P+2C	Z	Z
21MEOL	Meteorology Iveta Kameníková Iveta Kameníková	KZ	3	2P+1C	Z	Z
21SYLP	Airport Security Lukáš Popek Lukáš Popek Andrej Lališ (Gar.)	KZ	2	2P+0C	Z	Z
21LGL1	Aviation English 1 Jitka Heřmanová Jitka Heřmanová	Z	2	0P+2C	Z	Z
21SBL2	Bachelor Thesis Seminar 2 Vladimír Socha, Lenka Hanáková, Marta Urbanová Marta Urbanová	Z	1	1P+0C	Z	Z
15JL3A	Foreign language - English 3 (for LED) Markéta Vojanová, Dana Boušová, Marie Michlová, Marek Tomeček, Jan Feit, Markéta Musilová, Peter Morpuss, Jitka Heřmanová, Eva Rezlerová,	KZ	2	0P+2C	Z	Z

Characteristics of the courses of this group of Study Plan: Code=5S-BK-LED-26/27 Name=5th Sem. Bachelor Part-Time TET-LED from 2026/27

16LLA2 Aircraft 2	Z,ZK	2
Manufacturers responsibility, responsibilities of operator and professional supervising. Legislation i	1 ' 1	of aircra
structures. Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength.	Aircraft structure lifetime presumption.	
21LGCE Air Navigation	Z,ZK	3
Earth - its shape, parameters and properties. Aeronautical charts and their use. Measuring time. I	ead reckoning. Radionavigation aids. Global navigation satellite systems. A	ir traffic
services routes and their design.		
21LGVP Legislation and Operational Regulations	ZK	4
Introduction into aviation regulations. The scope of international and national organizations in civil	aviation. Analysis and interpretation of the ICAO Annexes 1-19, ICAO Docs	s. 4444,
7030, 8168. Introduction to the European Parliament and Council Regulation (EC), Commission F	egulation (EU) and the Decisions of the Executive Director of EASA.	
21ZYT2 Principles of Flight 2	Z,ZK	3
Static & Dingitudinal stability, neutral point, location of centre of gravity, static direction	nal & lateral stability, dynamic directional & lateral stability, contro	ol pitch
(longitudinal), yaw (directional) & amp; roll (lateral), roll/yaw interaction, trimming, speed of sound,	Mach number, compressibility, shock waves, critical Mach number, aerodyn	amic
heating, operating limitations, manoeuvring envelope, gust-load diagram.		
22SELN Air Accident Investigation	ZK	2
Introduction and legislation (ICAO, EU, Czechia) related to air accident investigation. Obligations ar	sing from legislative requirements for individual States in the event of an air	acciden
investigation process. Air accident site (inspector's equipment, site security, personal protection, ir	itial activities at the site, sketch, evidence, etc.). Aircraft and crew documen	ntation.
Final report (formalities, substantive content, contribution).		
14ZDAL Data processing in air transport	KZ	2
Introduction to data processing and analysis tools. Practical part of the training - introduction to the	working environment, applied examples of data processing from practice, a	advance
methods of presentation of the results. Seminar papers on open data. Consultation hours for semi	nar papers. Seminar paper submission and presentation.	
21MEOL Meteorology	KZ	3
Structure of atmosphere. Vertical stratification. Pressures QNH, QFE, QFF, QME. Instability. Atmosphere.	pherical fronts. Atmospherical rainfall, origin fission. Turbulence. Powers ca	
wind. Cyclone and anticyclone. Gradient wind. Geostrofical and geocyklostrofical wind. Visibilities in	$air\ transport.\ Dangerous\ meteorological\ aspects.\ Meteorological\ maps.\ Climate Climate Constraints and the constraints of the constraints $	using
Circulation. Intertropical front. Meteorological informations.		•
	1/7	•
21SYLP Airport Security	KZ	•
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Definition of aviation security and unlawful acts against the civil aviation. Description of threats, ris	ks, causes and goals of Security. Overview of national and international reg	natolog
Definition of aviation security and unlawful acts against the civil aviation. Description of threats, ris and their relevance to airport security. Security control devices. Operational efficiency factors and	ks, causes and goals of Security. Overview of national and international reg	natolog
Definition of aviation security and unlawful acts against the civil aviation. Description of threats, ris and their relevance to airport security. Security control devices. Operational efficiency factors and 21LGL1 Aviation English 1	ks, causes and goals of Security. Overview of national and international regelated variables. Basic use of queueing theory and optimization tasks.	natolog 2 gulations
Definition of aviation security and unlawful acts against the civil aviation. Description of threats, ris and their relevance to airport security. Security control devices. Operational efficiency factors and 21LGL1 Aviation English 1 Familiarity with the terminology used in civil aviation in the general context and emphasizing the a	ks, causes and goals of Security. Overview of national and international regelated variables. Basic use of queueing theory and optimization tasks.	natolog 2 gulations
Definition of aviation security and unlawful acts against the civil aviation. Description of threats, ris and their relevance to airport security. Security control devices. Operational efficiency factors and 21LGL1 Aviation English 1 Familiarity with the terminology used in civil aviation in the general context and emphasizing the a 21SBL2 Bachelor Thesis Seminar 2	ks, causes and goals of Security. Overview of national and international regelated variables. Basic use of queueing theory and optimization tasks. Z bility to receive information only in English.	2 gulation:
Definition of aviation security and unlawful acts against the civil aviation. Description of threats, ris and their relevance to airport security. Security control devices. Operational efficiency factors and 21LGL1 Aviation English 1 Familiarity with the terminology used in civil aviation in the general context and emphasizing the a 21SBL2 Bachelor Thesis Seminar 2 Methodology of thesis writing (introduction, analysis of the current state, specification of the problem.)	ks, causes and goals of Security. Overview of national and international regelated variables. Basic use of queueing theory and optimization tasks. Z bility to receive information only in English. Z m, objectives and hypotheses). Definition of materials and methods, approximately.	2 gulation:
Definition of aviation security and unlawful acts against the civil aviation. Description of threats, ris and their relevance to airport security. Security control devices. Operational efficiency factors and 21LGL1	ks, causes and goals of Security. Overview of national and international regelated variables. Basic use of queueing theory and optimization tasks. Z bility to receive information only in English. Z m, objectives and hypotheses). Definition of materials and methods, approximately.	2 gulations 2
Definition of aviation security and unlawful acts against the civil aviation. Description of threats, ris and their relevance to airport security. Security control devices. Operational efficiency factors and 21LGL1 Aviation English 1 Familiarity with the terminology used in civil aviation in the general context and emphasizing the a 21SBL2 Bachelor Thesis Seminar 2 Methodology of thesis writing (introduction, analysis of the current state, specification of the proble obtaining results, presentation and discussion of results, formulation of thesis conclusions. Basics	ks, causes and goals of Security. Overview of national and international regelated variables. Basic use of queueing theory and optimization tasks. Z bility to receive information only in English. Z m, objectives and hypotheses). Definition of materials and methods, approact of LaTeX, working with LaTeX and Word template. KZ	2 gulations 2 1 ach to

Code of the group: 6S-BK-LED-26/27

Name of the group: 6th Sem. Bachelor Part-Time TET-LED from 2026/27

Requirement credits in the group: In this group you have to gain 24 credits

Requirement courses in the group: In this group you have to complete 8 courses

Credits in the group: 24

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
11MSP	Modeling of Systems and Processes Bohumil Kovář	Z,ZK	4	2P+2C+12B	L	Z
21EMIL	Air Transport Economy	Z,ZK	5	3P+1C	L	Z
21LMR1	Aircraft Engines 1	ZK	3	2P+0C	L	Z

21LVYO	Human Performance and Limitations	ZK	3	2P+0C	L	Z
21PAP	Flight Planning and Performance	Z,ZK	4	2P+2C+14B	L	Z
21LGL2	Aviation English 2	KZ	2	0P+2C	L	Z
21SBL3	Bachelor Thesis Seminar 3 Lenka Hanáková	Z	1	1P+0C	L	Z
15JL4A	Foreign language - English 4 (for LED)	ZK	2	0P+2C	L	Z

Characteristics of the courses of this group of Study Plan: Code=6S-BK-LED-26/27 Name=6th Sem. Bachelor Part-Time TET-LED from 2026/27

2026/27			
11MSP	Modeling of Systems and Processes	Z,ZK	4
System and subsystem	, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of dif	ferential and different	ential equations.
Linear and nonlinear s	ystem, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer functio	n. Stability of LTI s	ystems.
Discretization of contin	uous systems. System interconnection.		
21EMIL	Air Transport Economy	Z,ZK	5
The course focuses or	the fundamentals of economics, providing students with an understanding of accounting principles and role of financial states	ments. In the seco	nd part, the
course builds on the g	eneral knowledge acquired and applies it to the environment of air transport economics. The basic principle is the Holloway mo	odel, which structu	ıres knowledge
about demand, price a	nd yield on the one hand, and supply, costs and expenses on the other.		
21LMR1	Aircraft Engines 1	ZK	3
Aircraft piston engine,	theoretical background, operational characteristics and construction schemes. Propellers, operational characterictics. Turbine	engine, theoretica	I background,
thermal cycles, constr	uction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational	characteristics. En	gine control.
21LVYO	Human Performance and Limitations	ZK	3
Human performace &	ımp; limitations, aptibility & competence, accident statistics, flight safety, basics of flight physiology, man & environme	ent, breathing &am	np; circulation,
sensory system, healt	n & hygiene, health preservation, intoxication, incapacitation, basics of flight psychology, human information processing, r	nemory & lea	arning, theory
& model of huma	n error, body rhythms & sleep, stress, fatigue, working methods.		
21PAP	Flight Planning and Performance	Z,ZK	4
Mass and balance. Loa	d of aircraft. Determination of centre of gravity - loadsheet, trimsheet. Aircraft weighing. Overloading of aircraft. Basic characterist	ic speeds. Runway	characteristics.
Take off and landing p	erformance. Drift down. ETOPS. MEL. Flight planning and monitoring. Routing. FL and speeds selection. Charts. ICAO ATC FP	L. Aerodrom opera	ation minimums.
Fuel plan. Operational	flight plan.		
21LGL2	Aviation English 2	KZ	2
Terminology in the spl	ere of aircraft construction, principles of flight, aircraft engines, instruments and systems.	·	
21SBL3	Bachelor Thesis Seminar 3	Z	1
Formal and graphic de	sign of the thesis. Data collection and presentation, basic statistical reasoning, validation of results and designs. Achieving the	objectives of the	thesis and
evaluation of hypothes	is tests. Preparation of the presentation, principles of presentation of the thesis.		
15JL4A	Foreign language - English 4 (for LED)	ZK	2
Grammar and technica	l vocabulary. Selection of conversation topics and professional topics based on students' level and their focus at Faculty of Trans	sportation Science	s. Development

List of courses of this pass:

of perceptive and communication skills, ability to give feedback, summarization of a technical text, presentation structure, technical style and its usage, language of management.

Code	Name of the course	Completion	Credits
11CAL1	Calculus 1	Z,ZK	7
Sequence of real r	numbers and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative. Indefinite integral, Newton integral, Wewton integral, Newton integral, Pirst-order differential equations, linear differential equations.	ral, Riemann integr	al, improper
11CAL2	Calculus 2	Z,ZK	5
Linea	ar differential equations and their systems, differential calculus of functions of several real variables. Riemann integral in Rn. Line and	surface integrals.	
11EMO	Electromagnetic Field and Optics	Z,ZK	4
44577	Electric field. Electric current. Magnetic field. Electromagnetic field. Optics. Basics of solid-state physics.	7.71/	
11FYZ	Physics Kinematics, dynamics, Newton's laws, force fields, mechanics of continuum, thermodynamics, introduction to electrostatics and electrostatics and electrostatics.	Z,ZK tric current.	5
11GIE	Geometry	KZ	3
Differential geom	etry of curves - parameterization, the arc of the curve, torsion and curvature, Frenet`s trihedron. Kinematics - a curve as a trajectory of a curve are acceleration of a particle moving on a curved path.	of the motion, the ve	elocity, and
11LA	Linear Algebra	Z,ZK	3
Vector spaces (line	ear combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and the their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classifications.	,	ninants and
11MSP	Modeling of Systems and Processes	Z,ZK	4
, , ,	stem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differe nlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer functio Discretization of continuous systems. System interconnection.		•
11STAT	Statistics	Z.ZK	4
_	ility Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Parameter Regression and correlation analysis	,	netric tests
11TGA	Graph Theory and its Applications in Transport	Z,ZK	4
Basic terms of	of graph theory, paths in graphs, flows in networks, location problems, design problems on graphs, optimum routing, use of graphs in c	ther scientific disc	iplines.

12MDE	Transport Models and Transport Excesses	Z,ZK	3
	traffic flow and methods for their measurement. Models of the traffic flow, communications load, line and urban systems. Theory of qu		
transport and its a	assessment. Statistical characteristics of transport. Transport excesses, their analysis, the causes, identify and minimize the consequences and fluorest contract the consequences.	ences. Improving o	ı transport
400001/	safety and fluency.	1/7	
12PPOK	Designing Roads, Highways and Motorways	KZ	3
	ownership, maintenance, management and categorization of roads and highways. Curve and transition curve. Sinuosity and standard	•	
narige of vision for	stopping and overtaking. Road body - shapes and proportions, bottom and superstructure. Drainage and components of roads. Safet intersections.	y device. Crossing:	s, junicilons,
12ZADK	Introduction to Transportation Engineering	Z,ZK	5
12ZADK 12ZTS		Z,ZK	4
	Railway Lines and Stations ilway track geometry parameters. Route layout of railway lines. Railway line construction - railway substructure and superstructure. S	l ' l	-
naii iiaiispoit. na	Railway control systems in relation to infrastructure. Operating and carriage points. Railway lines net and category. Traction in rail to	-	way iii les.
14ASD	Algorithm and Data Structures	KZ	3
	reproblems, design a theoretical solution to a given problem and write the resulting algorithm using flowcharts, practice reading algor		_
=	lean algebra to construct constraints in algorithms. Students will be introduced to the basics of the Python programming language - v	-	
	will learn to work with variables of basic data types (integer, floating point and string) and the list data structure in their progra	_	, ,
14DATS	Database Systems	KZ	2
	f database systems, conceptual model, relational data model, the principles of normal forms, relational database design, security and	d integrity of data,	database
	queries, relational algebra, SQL language, client / server, multilayer architectures, distributed database systems. Access to data via	the WWW.	
14PGP	Program Resources	Z	2
Students will be rer	ninded of some aspects of Pythom programming, learn basic concepts and constructs from object-oriented programming and their in	nplementation in P	ython. They
will also to	ry out the basics of working with data libraries in Python, namely NumPy, Pandas, Matplotlib, and practice with examples of smaller a	nd larger data size	es.
14PRG	Programming	KZ	2
The Course Progr	ramming builds on and fully extends the course 14ASD (Algorithmization and Data Structures). The knowledge of the Python program	nming language is	expanded
here so that the par	rticipant gains skills and can apply them to solve various follow-up tasks. Main topics: lists, multidimensional arrays, sorting and searc	hing, tuples, sets, o	dictionaries,
	working with date and time, regular expressions, functions and procedures, working with files (CSV, JSON, XML).		
14ZDAL	Data processing in air transport	KZ	2
	processing and analysis tools. Practical part of the training - introduction to the working environment, applied examples of data proce		e, advanced
	ods of presentation of the results. Seminar papers on open data. Consultation hours for seminar papers. Seminar paper submission a	nd presentation.	
15JL2A	Foreign language - English 2 (for LED)	KZ	2
	nical vocabulary. Selection of conversation topics and professional topics based on students' level and their focus at Faculty of Transpo		
	communication skills, ability to give feedback, summarization of a technical text, presentation structure, technical style and its usage		
15JL3A	Foreign language - English 3 (for LED)	KZ	2
	nical vocabulary. Selection of conversation topics and professional topics based on students' level and their focus at Faculty of Transpor		
	communication skills, ability to give feedback, summarization of a technical text, presentation structure, technical style and its usage		
15JL4A	Foreign language - English 4 (for LED)	ZK	2
	nical vocabulary. Selection of conversation topics and professional topics based on students' level and their focus at Faculty of Transpol		
	I communication skills, ability to give feedback, summarization of a technical text, presentation structure, technical style and its usage		
15JZ1A	Foreign Language - English 1	Z	3
Grammatical Struct	ures and Style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and constylistics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles of		Elementary
1011.41			2
16LLA1	Aircraft 1 nd conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and ca	KZ	3
Aliciali Siluciulai a	Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic	•	ait ioauirigs.
16LLA2	Aircraft 2	Z,ZK	2
	All Claft 2 onsibility, responsibilities of operator and professional supervising. Legislation in area of airworthiness. International and national stan		
Manuacturers resp	structures. Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presui		ty of all craft
16UDOP	Introduction into Vehicles	Z	2
	portation systems. Functionality and setup. Movement and drive principles. Engines and their characteristics. Rail, road, air and water		
vomoioo ana nano	of transport. Lifting equipment and conveyors. Legislation.	transport. / troina	aire meane
17TEDK	Transport Technology and Logistics	KZ	4
	sport technology and logistics, particular steps of transport planning, line planning, timetabling, planning in pasanger and freight tran		
	odus, technologic factors of the side of operator and client, organisation of city transport, logistic technologies and their aplication usi		
18MTY	Materials Science and Engineering	Z,ZK	3
	terials science and engineering explains mechanical properties of structural materials based on their bonding forces and microstructur		
	s the most important engineering materials, also other major classes of materials are presented, namely ceramics, polymers and com		
	to degradation processes in materials, to defectoscopy and to main mechanical tests.		•
18PZP	Elasticity and Strength	Z,ZK	3
	ession. Bending of beam. Shear stress in bending of beam. Design and analysis of cross section of beam. Design of riveted, bolted a		
	Analysis of deflection curve of beams. Torsion of circular cross sections. Combined loading. Stability.		
18SAT	Structural Analysis	Z,ZK	4
General system of	of forces in plane and space. Calculation of reactions of bodies and structures. Assessment of internal forces on statically determinate		le girders.
Principle of virtual v	vork. Kinematic method for calculation of reactions of statically determinate systems. Determination of axial forces in truss constructions.	Cross-sectional cha	aracteristics
	of planar shapes. Fiber polygons and chains.		
18TKK	Technical Drawing and Designing	KZ	4
20SYSA	Systems Analysis	Z,ZK	5
	em sciences, system viewpoint, terminology, typical system analysis tasks, system identification, system interface and interface tasks,	-	
and its analysis,	strong functions and processes, genetic code, system identity, system architecture. Tools for system analysis - Petri nets, decision tab	oles, algorithms for	structural
	tasks. Soft and hard systems, methods for soft system analysis.		

20UITS	Introduction to Intelligent Transport Systems	Z,ZK	7			
	gislative framework telematics systems and their architecture. Telematics systems in practice and their operation. Fundamentals of inform					
systems for ITS. Principles and technical support measurement of traffic data, localization and navigation. Practical work with traffic data. Real examples of possible applications of the						
04 = 1411	principles of ITS.	7 71/				
21EMIL	Air Transport Economy	Z,ZK	5			
	ses on the fundamentals of economics, providing students with an understanding of accounting principles and role of financial statem ne general knowledge acquired and applies it to the environment of air transport economics. The basic principle is the Holloway mode					
	about demand, price and yield on the one hand, and supply, costs and expenses on the other.	.,	omougo			
21LEIS	Aerodromes	Z,ZK	3			
Basic definition	ns. Applicability. Airport design. Reference code. Declared distances of runways (RWY). Taxiways and aprons. Clearway. Stopway. Mar	,				
Markings. Signs. M	arkers. Visual aids for denoting obstacles. Obstacle restriction, removal. Visual aids for navigation, lights, approach lighting systems. V	isual approach slo	pe indicator			
	systems. Runway lights. Taxiway lights. Visual aids for denoting obstacles.					
21LGCE	Air Navigation	Z,ZK	3			
Earth - its shape,	parameters and properties. Aeronautical charts and their use. Measuring time. Dead reckoning. Radionavigation aids. Global navigation	on satellite system	s. Air traffic			
041.01.4	services routes and their design.	-				
21LGL1	Aviation English 1	Z	2			
011.01.0	Familiarity with the terminology used in civil aviation in the general context and emphasizing the ability to receive information only in					
21LGL2	Aviation English 2 Terminology in the sphere of aircraft construction, principles of flight, aircraft engines, instruments and systems.	KZ	2			
21LGVP	Legislation and Operational Regulations	ZK	4			
	Legislation and Operational negulations viation regulations. The scope of international and national organizations in civil aviation. Analysis and interpretation of the ICAO Ann					
	B. Introduction to the European Parliament and Council Regulation (EC), Commission Regulation (EU) and the Decisions of the Execu					
21LMR1	Aircraft Engines 1	ZK	3			
	gine, theoretical background, operational characteristics and construction schemes. Propellers, operational characterictics. Turbine en		-			
thermal cycles, c	onstruction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational characteristics.	aracteristics. Engir	e control.			
21LVYO	Human Performance and Limitations	ZK	3			
· ·	e & De amp; limitations, aptibility & Description accident statistics, flight safety, basics of flight physiology, man & Description accident statistics, flight safety, basics of flight physiology, man & Description accident statistics, flight safety, basics of flight physiology, man & Description accident statistics, flight safety, basics of flight physiology, man & Description accident statistics, flight safety, basics of flight physiology, man & Description accident statistics, flight safety, basics of flight physiology, man & Description accident statistics, flight safety, basics of flight physiology, man & Description accident statistics, flight safety, basics of flight physiology, man & Description accident statistics, flight safety, basics of flight physiology, man & Description accident statistics, flight safety, basics of flight physiology, man & Description accident statistics, flight safety, basics of flight physiology, man & Description accident statistics, flight safety, basics of flight physiology, man & Description accident statistics, flight safety, basics of flight safety accident statistics.					
sensory system,	health & Description and the preservation, intoxication, incapacitation, basics of flight psychology, human information processing, me	mory & learni	ng, theory			
	& model of human error, body rhythms & sleep, stress, fatigue, working methods.					
21MEOL	Meteorology	KZ	3			
	esphere. Vertical stratification. Pressures QNH, QFE, QFF, QME. Instability. Atmospherical fronts. Atmospherical rainfall, origin fission. anticyclone. Gradient wind. Geostrofical and geocyklostrofical wind. Visibilities in air transport. Dangerous meteorological aspects. Met		- 1			
wind. Oycione and	Circulation. Intertropical front. Meteorological informations.	corological maps. (Jiiiiatology.			
21PAP	Flight Planning and Performance	Z.ZK	4			
	Load of aircraft. Determination of centre of gravity - loadsheet, trimsheet. Aircraft weighing. Overloading of aircraft. Basic characteristic sp	,	racteristics.			
Take off and landing	g performance. Drift down. ETOPS. MEL. Flight planning and monitoring. Routing. FL and speeds selection. Charts. ICAO ATC FPL. A	erodrom operation	minimums.			
	Fuel plan. Operational flight plan.					
21RELP	Air Traffic Control	Z,ZK	4			
21RIBZ	Aviation Safety	KZ	2			
	s topics related to the safety management and structure of the SMS. This includes a description of the SMS mechanisms and tools, used		operations.			
	rring the course, students are continuously working on the semestral assignment, which helps them to understand practical applicatio					
21SBL1	Bachelor Thesis Seminar 1	Z	1 atulas how			
	riew, applied research, basic research, thesis dealing with design proposals). Working with citation sources (citation sources, citation of the state of the art (standards of research writing). Defining the limitations of the state of the art. Introduction to the thes		Styles, flow			
21SBL2	Bachelor Thesis Seminar 2	Z	1			
	nesis writing (introduction, analysis of the current state, specification of the problem, objectives and hypotheses). Definition of materia					
	otaining results, presentation and discussion of results, formulation of thesis conclusions. Basics of LaTeX, working with LaTeX and W	-				
21SBL3	Bachelor Thesis Seminar 3	Z	1			
	phic design of the thesis. Data collection and presentation, basic statistical reasoning, validation of results and designs. Achieving the	objectives of the th	esis and			
	evaluation of hypothesis tests. Preparation of the presentation, principles of presentation of the thesis.					
21SYLP			2			
	Airport Security	KZ				
Definition of aviation	on security and unlawful acts against the civil aviation. Description of threats, risks, causes and goals of Security. Overview of national	l and international	regulations			
Definition of aviation and their rel	on security and unlawful acts against the civil aviation. Description of threats, risks, causes and goals of Security. Overview of national evance to airport security. Security control devices. Operational efficiency factors and related variables. Basic use of queueing theory	and international and optimization t	regulations asks.			
Definition of aviation and their rel	on security and unlawful acts against the civil aviation. Description of threats, risks, causes and goals of Security. Overview of national evance to airport security. Security control devices. Operational efficiency factors and related variables. Basic use of queueing theory Basics of Air Transport	I and international and optimization to KZ	regulations asks.			
Definition of aviation and their relevant 21ZALD History, definitions,	on security and unlawful acts against the civil aviation. Description of threats, risks, causes and goals of Security. Overview of national evance to airport security. Security control devices. Operational efficiency factors and related variables. Basic use of queueing theory Basics of Air Transport terminology, basic rules. VFR/IFR. Basics of aerodynamics. Propulsion of aircraft. Aircraft design. Basics of navigation, radio navigation.	I and international and optimization to KZ Weight, balance, po	regulations asks. 2 erformance.			
Definition of aviation and their relevant 21ZALD History, definitions,	on security and unlawful acts against the civil aviation. Description of threats, risks, causes and goals of Security. Overview of national evance to airport security. Security control devices. Operational efficiency factors and related variables. Basic use of queueing theory Basics of Air Transport terminology, basic rules. VFR/IFR. Basics of aerodynamics. Propulsion of aircraft. Aircraft design. Basics of navigation, radio navigation. Itimization of speed and heights, minimum fuel. Limitations of operation, maintenance, service life of aircraft. Traffic management, grounds.	I and international and optimization to KZ Weight, balance, po	regulations asks. 2 erformance.			
Definition of aviation and their relevant 21ZALD History, definitions, Flight planning, op	on security and unlawful acts against the civil aviation. Description of threats, risks, causes and goals of Security. Overview of national evance to airport security. Security control devices. Operational efficiency factors and related variables. Basic use of queueing theory Basics of Air Transport terminology, basic rules. VFR/IFR. Basics of aerodynamics. Propulsion of aircraft. Aircraft design. Basics of navigation, radio navigation. Itimization of speed and heights, minimum fuel. Limitations of operation, maintenance, service life of aircraft. Traffic management, ground Airlines and economics. Space technologies.	I and international and optimization to KZ Weight, balance, p nd handling, secur	regulations asks. 2 erformance. tty. Air crew.			
Definition of aviation and their relevant Parameter 21ZALD History, definitions, Flight planning, op	on security and unlawful acts against the civil aviation. Description of threats, risks, causes and goals of Security. Overview of national evance to airport security. Security control devices. Operational efficiency factors and related variables. Basic use of queueing theory Basics of Air Transport terminology, basic rules. VFR/IFR. Basics of aerodynamics. Propulsion of aircraft. Aircraft design. Basics of navigation, radio navigation. Itimization of speed and heights, minimum fuel. Limitations of operation, maintenance, service life of aircraft. Traffic management, grounds.	l and international and optimization to KZ Weight, balance, pond handling, secur	regulations asks. 2 erformance. ity. Air crew.			
Definition of aviation and their relevant Parameter 21ZALD History, definitions, Flight planning, op	Do security and unlawful acts against the civil aviation. Description of threats, risks, causes and goals of Security. Overview of national evance to airport security. Security control devices. Operational efficiency factors and related variables. Basic use of queueing theory Basics of Air Transport terminology, basic rules. VFR/IFR. Basics of aerodynamics. Propulsion of aircraft. Aircraft design. Basics of navigation, radio navigation. Itimization of speed and heights, minimum fuel. Limitations of operation, maintenance, service life of aircraft. Traffic management, ground Airlines and economics. Space technologies. ATM Systems	l and international and optimization to KZ Weight, balance, pond handling, secur	regulations asks. 2 erformance. ity. Air crew.			
Definition of aviation and their relevant Parameter 21ZALD History, definitions, Flight planning, op	Do security and unlawful acts against the civil aviation. Description of threats, risks, causes and goals of Security. Overview of national evance to airport security. Security control devices. Operational efficiency factors and related variables. Basic use of queueing theory Basics of Air Transport terminology, basic rules. VFR/IFR. Basics of aerodynamics. Propulsion of aircraft. Aircraft design. Basics of navigation, radio navigation. Itimization of speed and heights, minimum fuel. Limitations of operation, maintenance, service life of aircraft. Traffic management, ground Airlines and economics. Space technologies. ATM Systems Toduces classical and modern facilities, systems and technologies designated for ATS. Student obtains knowledge of technical princip	l and international and optimization to KZ Weight, balance, pond handling, secur	regulations asks. 2 erformance. ity. Air crew.			
Definition of aviation and their relevant their relevant and their rel	Do security and unlawful acts against the civil aviation. Description of threats, risks, causes and goals of Security. Overview of national evance to airport security. Security control devices. Operational efficiency factors and related variables. Basic use of queueing theory Basics of Air Transport	I and international and optimization to KZ Weight, balance, pend handling, secur ZK les and solutions a	regulations asks. 2 erformance. tty. Air crew. 2 as far as			
Definition of aviation and their relevant their relevant and their rel	Basics of Air Transport terminology, basic rules. VFR/IFR. Basics of aerodynamics. Propulsion of aircraft. Aircraft design. Basics of navigation, radio navigation. Space technologies. ATM Systems roduces classical and modern facilities, systems and technologies designated for ATS. Student obtains knowledge of technical princip communication, navigation and surveillance aviation systems are concerned. Principles of Flight 1 relation between drag and speed, streamline, boundary layer, formula of continuity, formula of attack, wing with final span, induced	I and international and optimization to KZ Weight, balance, pend handling, secur ZK les and solutions a Z,ZK essures around win	regulations asks. 2 erformance. tty. Air crew. 2 as far as 3 ng, angle of			
Definition of aviation and their relevant their relevant and their rel	Basics of Air Transport terminology, basic rules. VFR/IFR. Basics of aerodynamics. Propulsion of aircraft. Aircraft design. Basics of navigation, radio navigation. bimization of speed and heights, minimum fuel. Limitations of operation, maintenance, service life of aircraft. Traffic management, ground Airlines and economics. Space technologies. ATM Systems roduces classical and modern facilities, systems and technologies designated for ATS. Student obtains knowledge of technical princip communication, navigation and surveillance aviation systems are concerned. Principles of Flight 1 Trelation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and preference in the properties of the princip and drag increase.	I and international and optimization to KZ Weight, balance, pend handling, secur ZK les and solutions a Z,ZK essures around widdrag, interference,	regulations asks. 2 erformance. tty. Air crew. 2 as far as 3 ng, angle of devices for			
Definition of aviative and their relevant their relevant and their rel	Basics of Air Transport terminology, basic rules. VFR/IFR. Basics of aerodynamics. Propulsion of aircraft. Aircraft design. Basics of navigation. radio navigation. Space technologies. ATM Systems oduces classical and modern facilities, systems and technologies designated for ATS. Student obtains knowledge of technical princip communication, navigation and surveillance aviation systems are concerned. Principles of Flight 1 relation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and preference of Flight 2 Principles of Flight 2	I and international and optimization to KZ Weight, balance, pend handling, secur ZK les and solutions a Z,ZK essures around wirdrag, interference,	regulations asks. 2 erformance. tty. Air crew. 2 as far as 3 ng, angle of devices for			
Definition of aviative and their relevant their relevant and their rel	Basics of Air Transport terminology, basic rules. VFR/IFR. Basics of aerodynamics. Propulsion of aircraft. Aircraft design. Basics of navigation, radio navigation. bimization of speed and heights, minimum fuel. Limitations of operation, maintenance, service life of aircraft. Traffic management, ground Airlines and economics. Space technologies. ATM Systems roduces classical and modern facilities, systems and technologies designated for ATS. Student obtains knowledge of technical princip communication, navigation and surveillance aviation systems are concerned. Principles of Flight 1 Trelation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and preference in the properties of the princip and drag increase.	I and international and optimization to KZ Weight, balance, pend handling, secur ZK les and solutions at Z,ZK essures around windrag, interference, Z,ZK; lateral stability, co	regulations asks. 2 erformance. tty. Air crew. 2 as far as 3 ng, angle of devices for 3 entrol pitch			

22SELN Air Accident Investigation ZK 2
Introduction and legislation (ICAO, EU, Czechia) related to air accident investigation. Obligations arising from legislative requirements for individual States in the event of an air accident, investigation process. Air accident site (inspector's equipment, site security, personal protection, initial activities at the site, sketch, evidence, etc.). Aircraft and crew documentation.

Final report (formalities, substantive content, contribution).

For updated information see http://bilakniha.cvut.cz/en/FF.html Generated: day 2025-11-29, time 11:17.