Recomended pass through the study plan

Name of the pass: Bachelor Full-Time TUL from 2022/23

Faculty/Institute/Others:

Department:

Pass through the study plan: Bachelor TUL Full-Time from 2022/23 Branch of study guranteed by the department: Welcome page

Guarantor of the study branch:

Program of study: Technology of Aviation Maintenance

Type of study: Bachelor 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
14ASD	Algorithm and Data Structures Tomáš Brandejský, Michal Je ábek, Alena Kubá ová, Jan Procházka, Vít Fábera, Martin Fiala, Lukáš Svoboda, Tereza Panská Vít Fábera Vít Fábera (Gar.)	KZ	3	0P+2C+8B	S Z	Р
11CAL1	Calculus 1 Tomáš T asák, Olga Vraštilová, Magdalena Hykšová, Bohumil Ková, Ond ej Navrátil Bohumil Ková Ond ej Navrátil (Gar.)	Z,ZK	7	2P+4C+22B	B Z	Р
11GIE	Geometry Old ich Hykš, Pavel Provinský, Šárka Vorá ová Old ich Hykš Old ich Hykš (Gar.)	KZ	3	2P+2C+12B	B Z	Р
14KSP	Constructing with Computer Aid Lukáš Svoboda	KZ	2	0P+2C+8B	B Z	Р
11LA	Linear Algebra Magdalena Hykšová, Pavel Provinský, Lucie Kárná, Martina Be vá ová Magdalena Hykšová Martina Be vá ová (Gar.)	Z,ZK	3	2P+1C+10B	B Z	Р
18MTY	Materials Science and Engineering Tomáš Doktor, Jaromír Kylar, Veronika Drechslerová, Nela Kr má ová, Jitka ezní ková, Jaroslav Valach, Vít Malinovský, Jaromír Kylar Jaroslav Valach Tomáš Doktor (Gar.)	Z,ZK	3	2P+1C+10B	s z	Р
14ZEL1	Electronics Basics 1 Vít Fábera, Tomáš Musil Vít Fábera Vít Fábera (Gar.)	Z,ZK	5	3P+2C	Z	Р
21ZLKS	Basics of Aircraft Structures and Systems Jakub Kraus, Pavol Hajla Jakub Kraus	KZ	4	2P+2C	Z	Р
21PXE1	Training Course 1 Ond ej Vítovec, Kate ina Stuchlíková Ond ej Vítovec	Z	0	0P+4C	Z	V

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
11CAL2	Calculus 2 Magdalena Hykšová	Z,ZK	5	2P+3C+20B	L	Р
16LLA1	Aircraft 1	KZ	3	2P+1C	L	Р
21LRY1	Aircraft Engines 1 Jakub Kraus (Gar.)	KZ	3	2P+1C	L	Р
21PRJ1	Instrumentation 1 Pavel Hovorka Jakub Hospodka (Gar.)	ZK	2	2P+0C	L,Z	Р
14PRG	Programming	KZ	2	0P+2C+8B	L	Р
18SAT	Structural Analysis	Z,ZK	4	2P+2C+14B	L	Р
11STAT	Statistics	Z,ZK	4	2P+2C+12B	L	Р
14ZEL2	Electronics Basics 2 Vít Fábera	Z,ZK	4	2P+2C	L	Р

21ZKL1	Principles of Flight 1 Vladimír Socha (Gar.)	ZK	3	2P+1C	L	Р
21PXE2	Training Course 2	Z	0	0P+4C	L	V

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.)	Completion	Credits	Scope	Semester	Role
15JZ1A	Foreign Language - English 1 Markéta Vojanová, Dana Boušová, Marie Michlová, Marek Tome ek, Jan Feit, Markéta Musilová, Peter Morpuss, Jitka He manová, Eva Rezlerová Lenka Monková (Gar.)	Z	3	0P+4C+10B	Z	Р
11FYZ	Physics Old ich Hykš, Pavel Demo, Zuzana Malá, Tomáš Vít , Jana Kuklová Jana Kuklová Pavel Demo (Gar.)	Z,ZK	5	2P+2C+18B	Z	Р
16LLA2	Aircraft 2 Jan Slezá ek, Karel Hylmar, Daniel Urban, Karel Mündel	Z,ZK	2	2P+1C	Z	Р
21LRY2	Aircraft Engines 2 Daniel Hanus, Tomáš Parýzek Daniel Hanus Stanislav Kušmírek (Gar.)	Z,ZK	3	2P+1C	Z	Р
21LEUL	Aviation Maintenance Human Factors Oliver Dzvoník Oliver Dzvoník	Z,ZK	5	3P+2C	Z	Р
21PRJ2	Instrumentation 2 Pavel Hovorka Jakub Hospodka (Gar.)	ZK	3	2P+0C	L,Z	Р
18PZP	Elasticity and Strength Tomáš Doktor, Jitka ezni ková, Josef Jíra, Jan Šleichrt, Jan Vy ichl, Daniel Kytý, Ond ej Jiroušek Ond ej Jiroušek Ond ej Jiroušek (Gar.)	Z,ZK	3	2P+1C+10B	Z	Р
21UPUL	Introduction to Aircraft Maintenance Technology Kate ina Stuchlíková, Jakub Charezinski Kate ina Stuchlíková	Z	3	3P+0C	Z	Р
14ZLEN	Basics of Electronics Vít Fábera, Tomáš Musil Vít Fábera Vít Fábera (Gar.)	KZ	3	2P+1C	Z	Р
11SCFZ	Seminar of Physics Old ich Hykš, Zuzana Malá, Tomáš Vít , Jana Kuklová Zuzana Malá Zuzana Malá (Gar.)	Z	0	0P+2C	Z	V

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
15JZ2A	Foreign Language - English 2 Marek Tome ek (Gar.)	Z,ZK	3	0P+4C+10B	L	ZP
11ELMO	Electromagnetic Field and Optics Zuzana Malá	Z,ZK	5	2P+2C	L	Р
14ENIK	Electronics Vít Fábera	KZ	4	2P+2C	L	Р
21LES1	Aviation Legislation 1 Ji i uk	Z	3	3P+0C	L	Р
18POMY	Advanced Materials Petr Koudelka (Gar.)	KZ	2	2P+0C	L	Р
21PYD1	Aircraft Maintenance Technology 1	KZ	3	3P+1C	L	Р
21SBU1	Bachelor Thesis Seminar 1 Lenka Hanáková	Z	1	1P+0C	L	Р
21V	Aircraft Propellers Martin Novák	Z,ZK	6	3P+2C	L	Р
21ZT	ATM Systems	ZK	2	2P+0C	Z,L	Р
X1-BP-TUL-23/24	Projekty Bc. prezen ní TUL od 2023/24 11X31U,12X31U, (see the list of groups below)	Min. cours. 3 Max. cours.	Min/Max			ZP
		3	4/4			

Number of semester: 5

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
21KSY1	Aircraft Construction and Systems 1 Kate ina Stuchliková, Karel Mündel Karel Mündel	Z,ZK	7	4P+3C	Z	Z

21KTVL	Aircraft Structures and Production Technology Jakub Kraus Jakub Kraus (Gar.)	Z	3	0P+2C	Z	Z
21LAU1	Aviation English 1 for Technology of Maintenance Jitka He manová Jitka He manová	Z	2	0P+2C	Z	Z
21LES2	Aviation Legislation 2 Ji i uk Ji i uk	KZ	2	2P+0C	Z	Z
21PYD2	Aircraft Maintenance Technology 2 Martin Novák Martin Novák	KZ	4	3P+1C	Z	Z
21RATE	Radiotechnology Vladimír Machula Vladimír Machula	ZK	2	2P+0C	Z	ZP
21SBU2	Bachelor Thesis Seminar 2 Vladimír Socha, Lenka Hanáková Vladimír Socha	Z	1	1P+0C	Z	Z
21TUM1	Turbine Engines 1 Jakub Kraus, Daniel Hanus, Tomáš Hejna Daniel Hanus Stanislav Kušmírek (Gar.)	KZ	7	3P+3C	Z	Z
21PIS1	Piston Engine 1 Jakub Kraus Jakub Kraus (Gar.)	Z	0	2P+2C	Z	Z
		Min. cours.				
V4 DD TIII 00/04	Projekty Bc. prezen ní TUL od 2023/24	3	Min/Max			
X1-BP-TUL-23/24	11X31U,12X31U, (see the list of groups below)	Max. cours.	4/4			ZP
		3				

Number of semester: 6

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
21AVIA	Avionics	Z,ZK	3	2P+2C	L	Z
21KSY2	Aircraft Construction and Systems 2 Karel Mündel	Z,ZK	7	4P+3C	L	Z
21LAU2	Aviation English 2 for Technology of Maintenance Jitka He manová	Z	2	0P+2C	L	Z
11MSP	Modeling of Systems and Processes Bohumil Ková	Z,ZK	4	2P+2C+12E	L L	Z
21PYD3	Aircraft Maintenance Technology 3	KZ	5	3P+1C	L	Z
21SBU3	Bachelor Thesis Seminar 3 Lenka Hanáková	Z	1	1P+0C	L	ZP
21TUM2	Turbine Engines 2 Daniel Hanus Stanislav Kušmírek (Gar.)	Z,ZK	7	3P+3C	L	Z
21PIS2	Piston Engine 2	Z	0	2P+2C	L	Z
		Min. cours.				
V4 DD TIII 00/04	Projekty Bc. prezen ní TUL od 2023/24	3	Min/Max			70
X1-BP-TUL-23/24	11X31U,12X31U, (see the list of groups below)	Max. cours.	4/4			ZP
		3				

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

Kód		Name of the group of group (for specification	courses and on see here or	codes of members of this below the list of courses)	Com	pletion	Credit	ts Scope	Semester	Role
X1-BP-TUL	L-23/24	Projekty B	c. prezen ní T	UL od 2023/24		cours. 3 . cours. 3	Min/Ma	ax		ΖP
11X31U	Project 1 T	UL	12X31U	Project 1 TUL		14X31U		Project 1 TUL		
15X31U	Project 1 T	UL	16X31U	Project 1 TUL		17X31U		Project 1 TUL		
18X31U	Project 1 T	UL	20X31U	Project 1 TUL		21X31U		Project 1 TUL		
22X31U	Project 1 T	UL	23X31U	Project 1 TUL		11X32U		Project 2 TUL		
12X32U	Project 2 T	UL	14X32U	Project 2 TUL		15X32U		Project 2 TUL		
16X32U	Project 2 T	UL	17X32U	Project 2 TUL		18X32U		Project 2 TUL		
20X32U	Project 2 T	UL	21X32U	Project 2 TUL		22X32U		Project 2 TUL		
23X32U	Project 2 T	UL	11X33U	Project 3 TUL		12X33U		Project 3 TUL		
14X33U	Project 3 T	UL	15X33U	Project 3 TUL		16X33U		Project 3 TUL		
17X33U	Project 3 T	UL	18X33U	Project 3 TUL		20X33U		Project 3 TUL		

List of courses of this pass:

11CAL1 Sequence of real r	Name of the course	Completion	Credits
Sequence of real r	Calculus 1	Z,ZK	7
	numbers and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative. Indefinite integral, Newton integral Riemann integral. First-order differential equations, linear differential equations.	ral, Riemann integr	al, imprope
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.	
11ELMO	Electromagnetic Field and Optics Electric field. Electric current. Magnetic field. Electromagnetic field. Optics. Basics of solid-state physics.	Z,ZK	5
11FYZ	Physics	Z,ZK	5
	Kinematics, dynamics, Newton's laws, force fields, mechanics of continuum, thermodynamics, introduction to electrostatics and electrostatics and electrostatics.	'	
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 o acceleration of a particle moving on a curved path.	f the motion, the v	elocity, and
11LA	Linear Algebra	Z,ZK	3
vector spaces (lin	ear combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and their	ir solvability. Deteri	ninants and
	their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classifications.	on.	
11MSP	Modeling of Systems and Processes	Z,ZK	4
System and subsy	stem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differe	ntial and differentia	al equations
Linear and no	nlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function	n. Stability of LTI s	ystems.
	Discretization of continuous systems. System interconnection.		
11SCFZ	Seminar of Physics	Z	0
	Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermody		T
11STAT	Statistics	Z,ZK	4
Basics of probab	ility Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Paramet	ric tests Nonparan	netric tests
	Regression and correlation analysis		
11X31U	Project 1 TUL	Z	1
11X32U	Project 2 TUL	Z	2
11X33U	Project 3 TUL	Z	1
12X31U	Project 1 TUL	Z	1
12X32U	Project 2 TUL	Z	2
12X33U	Project 3 TUL	Z	1
14ASD	Algorithm and Data Structures	KZ	3
_	/ze problems, design a theoretical solution to a given problem and write the resulting algorithm using flowcharts, practice reading algor		J 3
		ithms written usinc	flowcharts
-	plean algebra to construct constraints in algorithms. Students will be introduced to the basics of the Python programming language - v	-	
-	olean 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	ariable, branching,	
-		ariable, branching,	
and use basic Boo	will learn to work with variables of basic data types (integer, floating point and string) and the list data structure in their progrational Electronics	ariable, branching, ms. KZ	loops, they
and use basic Boo	will learn to work with variables of basic data types (integer, floating point and string) and the list data structure in their progra	ariable, branching, ms. KZ ntegrated circuits \$	loops, they 4 SSI - VLSI,
and use basic Boo	will learn to work with variables of basic data types (integer, floating point and string) and the list data structure in their progra Electronics al representation, radix systems, combinational logical circuits, Karnaugh maps, logical circuits realization, sequential logical circuits, i	ariable, branching, ms. KZ ntegrated circuits \$	loops, they 4 SSI - VLSI,
14ENIK Analog and digite coders, decoders,	will learn to work with variables of basic data types (integer, floating point and string) and the list data structure in their prograted Electronics all representation, radix systems, combinational logical circuits, Karnaugh maps, logical circuits realization, sequential logical circuits, is counters, A/D and D/A convertors, programmable circuits (FPGA, SoC), computer terminology, computer architecture, single-chip controllers, electrical buses. Constructing with Computer Aid	ariable, branching, ms. KZ ntegrated circuits sollers, RISC, CISC	4 SSI - VLSI, , memories
14ENIK Analog and digite coders, decoders,	will learn to work with variables of basic data types (integer, floating point and string) and the list data structure in their progration Electronics al representation, radix systems, combinational logical circuits, Karnaugh maps, logical circuits realization, sequential logical circuits, is counters, A/D and D/A convertors, programmable circuits (FPGA, SoC), computer terminology, computer architecture, single-chip controllers, electrical buses.	ariable, branching, ms. KZ ntegrated circuits sollers, RISC, CISC	4 SSI - VLSI, , memories
14ENIK Analog and digite coders, decoders, 14KSP "CAD systems" te	will learn to work with variables of basic data types (integer, floating point and string) and the list data structure in their progration Electronics al representation, radix systems, combinational logical circuits, Karnaugh maps, logical circuits realization, sequential logical circuits, is counters, A/D and D/A convertors, programmable circuits (FPGA, SoC), computer terminology, computer architecture, single-chip controllers, electrical buses. Constructing with Computer Aid	ariable, branching, ms. KZ ntegrated circuits sollers, RISC, CISC KZ k rules in graphic a	doops, they 4 SSI - VLSI, , memories 2 applications
14ENIK Analog and digite coders, decoders, 14KSP "CAD systems" te	will learn to work with variables of basic data types (integer, floating point and string) and the list data structure in their progration in their progration in their progration is all representation, radix systems, combinational logical circuits, Karnaugh maps, logical circuits realization, sequential logical circuits, it counters, A/D and D/A convertors, programmable circuits (FPGA, SoC), computer terminology, computer architecture, single-chip controcontrollers, electrical buses. Constructing with Computer Aid string CAD role in projecting system model. Existing CAD systems on Czech market. Project creation, basic common work in their progration is controllers.	ariable, branching, ms. KZ ntegrated circuits sollers, RISC, CISC KZ k rules in graphic a	doops, they 4 SSI - VLSI, , memories 2 applications
14ENIK Analog and digite coders, decoders, 14KSP "CAD systems" te and CA systems	will learn to work with variables of basic data types (integer, floating point and string) and the list data structure in their progration is all representation, radix systems, combinational logical circuits, Karnaugh maps, logical circuits realization, sequential logical circuits, is counters, A/D and D/A convertors, programmable circuits (FPGA, SoC), computer terminology, computer architecture, single-chip controcontrollers, electrical buses. Constructing with Computer Aid systems on Czech market. Project creation, basic common works. Co-ordinated systems, CAD environment skill (basics of constructing, dimensioning, modifications, user interfaces, projecting possible profiles, drawings with raster foundaments). Programming	ariable, branching, ms. KZ ntegrated circuits sollers, RISC, CISC KZ k rules in graphic additional sollers, AutoCAD en	4 SSI - VLSI, , memories 2 applications vironment 2
14ENIK Analog and digite coders, decoders, 14KSP "CAD systems" te and CA systems 14PRG The Course Prog	will learn to work with variables of basic data types (integer, floating point and string) and the list data structure in their progration in their progration is all representation, radix systems, combinational logical circuits, Karnaugh maps, logical circuits realization, sequential logical circuits, is counters, A/D and D/A convertors, programmable circuits (FPGA, SoC), computer terminology, computer architecture, single-chip controllers, electrical buses. Constructing with Computer Aid systems on Czech market. Project creation, basic common works. Co-ordinated systems, CAD environment skill (basics of constructing, dimensioning, modifications, user interfaces, projecting possib profiles, drawings with raster foundaments). Programming gramming builds on and fully extends the course 14ASD (Algorithmization and Data Structures). The knowledge of the Python program	ariable, branching, ms. KZ ntegrated circuits sollers, RISC, CISC KZ k rules in graphic additional indicates, AutoCAD en KZ nming language is	4 SSI - VLSI, , memories 2 applications vironment 2 expanded
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14ENIK Analog and digital coders, decoders, decoders, decoders, and CA systems 14PRG The Course Progress of that the part 14X31U 14X32U	will learn to work with variables of basic data types (integer, floating point and string) and the list data structure in their progration to their progration of thei	ariable, branching, ms. KZ Integrated circuits sollers, RISC, CISC KZ k rules in graphic a dilites, AutoCAD en KZ Inming language is hing, tuples, sets, IZ Z	4 SSI - VLSI, , memories 2 applications vironment 2 expanded dictionaries
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15JZ1A	Foreign Language - English 1	Z	3
Grammatical Struct	tures and Style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and co		Elementary
	stylistics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles	T.	
15JZ2A	Foreign Language - English 2	Z,ZK	3
Grammatical struct	ures and style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and co		Elementary
	stylistics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles		
15X31U	Project 1 TUL	Z	1
15X32U	Project 2 TUL	Z	2
15X33U	Project 3 TUL	Z	1
16LLA1	Aircraft 1	KZ	3
Aircraft structural a	nd conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and ca	ategorisation. Aircr	aft loadings.
	Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topic	cs.	
16LLA2	Aircraft 2	Z,ZK	2
Manufacturers resp	onsibility, responsibilities of operator and professional supervising. Legislation in area of airworthiness. International and national star	ndards. Static solidi	ty of aircraft
	structures. Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presu	mption.	
16X31U	Project 1 TUL	Z	1
16X32U	Project 2 TUL	Z	2
16X33U	Project 3 TUL	Z	1
17X31U	Project 1 TUL	Z	1
17X32U	Project 2 TUL	Z	2
17X32U	·	Z	
	Project 3 TUL		1
18MTY	Materials Science and Engineering	Z,ZK	3
	terials science and engineering explains mechanical properties of structural materials based on their bonding forces and microstructu		
is paid to metals as	s the most important engineering materials, also other major classes of materials are presented, namely ceramics, polymers and con to degradation processes in materials, to defectoscopy and to main mechanical tests.	nposites. Attention	is also paid
400000		1/7	2
18POMY	Advanced Materials	KZ	2
1	ned in primary materials course is further developed. In greater physical detail it explains dynamics of strcture defects, phase diagran processes of structure control are discussed. The gained knowledge is utilized on description of contemporary technologies of materi		
Concepts. Special (applications.	ai production for K	sy iriuusiriai
18PZP	Elasticity and Strength	Z,ZK	3
	ression. Bending of beam. Shear stress in bending of beam. Design and analysis of cross section of beam. Design of riveted, bolted a		_
Tension and compi	Analysis of deflection curve of beams. Torsion of circular cross sections. Combined loading. Stability.	ana welaca jointo o	i structures.
18SAT	Structural Analysis	Z,ZK	4
	of forces in plane and space. Calculation of reactions of bodies and structures. Assessment of internal forces on statically determinat		- I
_	vork. Kinematic method for calculation of reactions of statically determinate systems. Determination of axial forces in truss constructions.	•	-
.,			
	of planar shapes. Fiber polygons and chains.		
18X31U		7	
18X31U	Project 1 TUL	Z	1
18X32U	Project 1 TUL Project 2 TUL	Z	1 2
18X32U 18X33U	Project 1 TUL Project 2 TUL Project 3 TUL	Z Z	1 2 1
18X32U 18X33U 20X31U	Project 1 TUL Project 2 TUL Project 3 TUL Project 1 TUL	Z Z Z	1 2 1
18X32U 18X33U 20X31U 20X32U	Project 1 TUL Project 2 TUL Project 3 TUL Project 1 TUL Project 2 TUL	Z Z Z Z	1 2 1 1 2
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18X32U 18X33U 20X31U 20X32U 20X33U 21AVIA Aircraft instrumenta	Project 1 TUL Project 2 TUL Project 3 TUL Project 1 TUL Project 2 TUL Project 2 TUL Project 3 TUL Project 3 TUL Project 3 TUL Project 3 TUL Avionics Ition, electromagnetic compatibility, aircraft pilot-navigation instrumentation, central electronic aircraft monitoring system, electronic flight modular avionics, flight control and optimization system, on-board and information systems. Aircraft Construction and Systems 1 In requirements and functions - fuselage, wings, flight controls, undercarriage, aircraft pylon, nacelle. Aircraft systems requirements and	Z Z Z Z Z Z,ZK t instrument system	1 2 1 1 2 1 3 an, integrated 7
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21LRY2	Aircraft Engines 2	Z,ZK	3
Compressors, ce	ntrifugal compressor, combustion chamber, turboshaft engines, ramjets, power, thermal efficiency and fuel consumption, starting aircra idling speed.	art turbine engines	s, idling and
21PIS1	Piston Engine 1	7	0
	iency, duty cycles, stroke and compression ratio, engine layout and ignition. Engine power calculation. Measurement of key engine parar	_	
J	fuel flow. Engine design. Valve distributions. Starting systems. Engine exhaust systems. Engine cooling system.		•
21PIS2	Piston Engine 2	Z	0
Design and op	eration of supercharged engines. Lubrication and fuel system. Engine mounting and covers. Engine storage. Construction of hoses and	d pipes. Startup pr	ocedure.
	Inspection and storage of the engine, including its accessories.		
21PRJ1	Instrumentation 1	ZK	2
	on principles of instrumentation, electronic displays, basics of measurement - sensitivity and errors, engine instrumentation (pressure		
quantity and fuel f	low measurement, torque and EPR measurement), indication in other aircraft systems (position, fire and icing indication, vibration mor	itoring, pressurisa	ation syste
	monitoring, aerometric instruments (sensors, altimeter, air speed indicator, VSI, ADC).		
21PRJ2	Instrumentation 2	ZK	3
Compass, gyrosc	opic instruments (turn indicator, attitude indicator, directional gyro), inertial instruments, recording and monitoring systems, warning sy	stems (TCAS, GP	WS), AFC
	(autopilot, flight director, autothrust), FMS, flight envelope protection, communication systems, flight computers.		
21PXE1	Training Course 1	Z	0
	Tools identification and their use. Various material treatment. Joining methods for different joints and their removal.		1
21PXE2	Training Course 2	Z	0
	Special tools and measurement equipment identification and their use. Basics of machine-tool control.		
21PYD1	Aircraft Maintenance Technology 1	KZ	3
	e course, which introduces students to the basic techniques of joining both metallic and non-metallic materials. These techniques are mai		
and gluing. It als	o introduces the basic metals and non-metals, including composites, which are part of modern aircraft. Last but not least, techniques for	or fitting springs, g	gears, gea
0451/53	cables, pipes and hoses to aircraft are presented.	1/7	
21PYD2	Aircraft Maintenance Technology 2	KZ	4
	f the course introduces all currently used inspection methods, including non-destructive ones, that are used in aviation. Focus is also or dents are also introduced to aircraft handling methods and the effect of the environment on the operation of the aircraft. Methods of weig		
ina comosion. Sta	are introduced to ancian handing methods and the effect of the environment on the operation of the anciant methods of weights are introduced, including the determination of its centre of gravity.	ining and balancin	ig an ancia
21PYD3		KZ	5
_	Aircraft Maintenance Technology 3 tudents with a detailed overview of organisations involved in heavy aircraft maintenance, maintenance planning and also technical doc		_
	ces how to deal with various aircraft system failures as well as various structural damage and aircraft modifications. Students are also intro		
no ocurso marcua	system and storage procedures in heavy aircraft maintenance.		lanagome
21RATE	Radiotechnology	ZK	2
	readistect mology vaves, propagation, radio spectrum, information transmission, signal processing, modulations, signal coding, radio transceivers, anteni		I .
,	systems in aviation.	,	
21SBU1	Bachelor Thesis Seminar 1	Z	1
	eview, applied research, basic research, thesis dealing with design proposals). Working with citation sources (citation sources, citation of	latabases, citation	styles, ho
to c	ite). Analyzing the state of the art (standards of research writing). Defining the limitations of the state of the art. Introduction to the thes	is methodology.	
21SBU2	Bachelor Thesis Seminar 2	Z	1
Methodology of t	hesis writing (introduction, analysis of the current state, specification of the problem, objectives and hypotheses). Definition of material	s and methods, a	pproach to
0	btaining results, presentation and discussion of results, formulation of thesis conclusions. Basics of LaTeX, working with LaTeX and W	ord template.	
21SBU3	Bachelor Thesis Seminar 3	Z	1
Formal and gra	phic design of the thesis. Data collection and presentation, basic statistical reasoning, validation of results and designs. Achieving the	objectives of the the	hesis and
	evaluation of hypothesis tests. Preparation of the presentation, principles of presentation of the thesis.		
21TUM1	Turbine Engines 1	KZ	7
•	urse is focused on the explanation and description of the purpose, operation and construction characteristics of aircraft turbojet and turb	•	rmal engin
	ermal cycle and its basic parameters, power output and thermal efficiency, basic construction modules, operational and construction c		
21TUM2	Turbine Engines 2	Z,ZK	7
	e course is focused on the explanation and description of the purpose, operation and construction characteristics of following aircraft to		
- lubrication sys	tem, cooling and internal air systems, fuel systems, starting and ignition, controls and instrumentation. Purpose, operation principles a	na construction so	cnemes or
21UPUL	turboprop engines, turboshaft and auxiliary power units.	Z	2
	Introduction to Aircraft Maintenance Technology n an overview of safe work practices as well as an insight into the history of aircraft maintenance. In addition, tools used in heavy aircra		3
•	as basic care procedures. A significant portion of the course is devoted to technical drawings as well as the Electrical Wiring Inspection		
21V	Aircraft Propellers	Z,ZK	6
	Theory of propeller blade, propeller load, propeller construction, control of blade angle, de-icing system, maintenance and repair of propeller blade, propeller load, propeller construction, control of blade angle, de-icing system, maintenance and repair of propeller blade, propeller load, propeller construction, control of blade angle, de-icing system, maintenance and repair of propeller blade, propeller load, propeller construction, control of blade angle, de-icing system, maintenance and repair of propeller blade, propeller load, propeller construction, control of blade angle, de-icing system, maintenance and repair of propeller blade, propeller load, propeller construction, control of blade angle, de-icing system, maintenance and repair of propeller load, propeller lo		0
Z 1 V		Z	1
	Droiget 1 TIII		
21X31U	Project 1 TUL		
21X31U 21X32U	Project 2 TUL	Z	2
21X31U 21X32U 21X33U	Project 2 TUL Project 3 TUL	Z Z	1
21X31U 21X32U 21X33U 21ZKL1	Project 2 TUL Project 3 TUL Principles of Flight 1	Z Z ZK	1 3
21X31U 21X32U 21X33U 21ZKL1 Aerodynamic drag	Project 2 TUL Project 3 TUL Principles of Flight 1 prelation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and preference 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, induced	Z Z ZK essures around wi	1 3 ng, angle
21X31U 21X32U 21X33U 21ZKL1 verodynamic drag ttack, reactions of	Project 2 TUL Project 3 TUL Principles of Flight 1	Z ZK essures around wi drag, interference	1 3 ng, angle , devices t
21X31U 21X32U 21X33U 21ZKL1 Verodynamic drag tttack, reactions of	Project 2 TUL Project 3 TUL Principles of Flight 1 g, relation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and pref 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, induced lift and drag increase. Basics of Aircraft Structures and Systems	Z ZK essures around widrag, interference	1 3 ng, angle
21X31U 21X32U 21X33U 21ZKL1 Aerodynamic drag ittack, reactions of	Project 2 TUL Project 3 TUL Principles of Flight 1	Z ZK essures around wi drag, interference KZ in aviation.	1 3 ng, angle , devices f
21X31U 21X32U 21X33U 21ZKL1 Aerodynamic drag attack, reactions of 21ZLKS	Project 2 TUL Project 3 TUL Principles of Flight 1 g, relation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and preference 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, induced lift and drag increase. Basics of Aircraft Structures and Systems Basics of screening, technical drawing, technological and operational signs. Hydraulic, pneumatic, fuel, electricity and block diagrams ATM Systems	Z ZK essures around widrag, interference KZ in aviation. ZK	1 3 ng, angle , devices f
21X31U 21X32U 21X33U 21ZKL1 Aerodynamic drag attack, reactions of 21ZLKS	Project 2 TUL Project 3 TUL Principles of Flight 1 g, relation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and professing 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, induced lift and drag increase. Basics of Aircraft Structures and Systems Basics of screening, technical drawing, technological and operational signs. Hydraulic, pneumatic, fuel, electricity and block diagrams ATM Systems roduces classical and modern facilities, systems and technologies designated for ATS. Student obtains knowledge of technical princip	Z ZK essures around widrag, interference KZ in aviation. ZK	1 3 ng, angle , devices f
21X31U 21X32U 21X33U 21ZKL1 Aerodynamic dragattack, reactions of the course into the course in	Project 2 TUL Project 3 TUL Principles of Flight 1 g, relation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and pressor 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, induced lift and drag increase. Basics of Aircraft Structures and Systems Basics of screening, technical drawing, technological and operational signs. Hydraulic, pneumatic, fuel, electricity and block diagrams 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.	Z Z Z K essures around wi drag, interference KZ in aviation. ZK les and solutions a	1 3 ng, angle , devices f 4 2 as far as
21X31U 21X32U 21X33U 21ZKL1 Aerodynamic drag attack, reactions of 21ZLKS	Project 2 TUL Project 3 TUL Principles of Flight 1 g, relation between drag and speed, streamline, boundary layer, formula of continuity, formula of Bernoulli, lift and drag, air flow and professing 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, induced lift and drag increase. Basics of Aircraft Structures and Systems Basics of screening, technical drawing, technological and operational signs. Hydraulic, pneumatic, fuel, electricity and block diagrams ATM Systems roduces classical and modern facilities, systems and technologies designated for ATS. Student obtains knowledge of technical princip	Z ZK essures around widrag, interference KZ in aviation. ZK	1 3 ng, angle o , devices fo

22X33U	Project 3 TUL	Z	1
23X31U	Project 1 TUL	Z	1
23X32U	Project 2 TUL	Z	2
23X33U	Project 3 TUL	Z	1

For updated information see http://bilakniha.cvut.cz/en/FF.html Generated: day 2025-11-27, time 21:15.