Recomended pass through the study plan

Name of the pass: Bachelor Full-Time TUL from 2024/25

Faculty/Institute/Others: Department: Pass through the study plan: Bachelor TUL Full-Time from 2024/25 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 s | emester: 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 Vít Fábera Vít Fábera (Gar.) | КZ | 3 | 0P+2C+8B | s Z | Ρ |
| 11CAL1 | Calculus 1 Olga Vraštilová, Tomáš T asák, Magdalena Hykšová, Bohumil Ková, Ond ej Navrátil Bohumil Ková Ond ej Navrátil (Gar.) | Z,ZK | 7 | 2P+4C+22E | B Z | Ρ |
| 11GIE | Geometry Old ich Hykš, Pavel Provinský, Šárka Vorá ová Old ich Hykš Old ich Hykš (Gar.) | KZ | 3 | 2P+2C+12B | 8 Z | Ρ |
| 14KSP | Constructing with Computer Aid Vít Fábera, Radek Kratochvíl Lukáš Svoboda | KZ | 2 | 0P+2C+8B | 8 Z | Ρ |
| 11LA | Linear Algebra Pavel Provinský, Lucie Kárná, Martina Be vá ová Martina Be vá ová Martina Be vá ová (Gar.) | Z,ZK | 3 | 2P+1C+10B | B Z | Ρ |
| 18MTY | Materials Science and Engineering Jaromír Kylar, Veronika Drechslerová, Jaromír Kylar, Nela Kr má ová, Jitka ezní ková, Jaroslav Valach, Vít Malinovský, Veronika Drechslerová, Jaromír Kylar Jaroslav Valach Jaroslav Valach (Gar.) | Z,ZK | 3 | 2P+1C+10B | 8 Z | Ρ |
| 14ZEL1 | Electronics Basics 1 Vít Fábera, Tomáš Musil Vít Fábera Vít Fábera (Gar.) | Z,ZK | 5 | 3P+2C | Z | Ρ |
| 21ZLKS | Basics of Aircraft Structures and Systems Pavol Hajla Pavol Hajla | КZ | 4 | 2P+2C | Z | Ρ |
| 21PXE1 | Training Course 1 Ond ej Vítovec, Kate ina Stuchlíková Ond ej Vítovec | Z | 0 | 0P+4C | Z | V |

| Number of semes | ster: 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 Olga Vraštilová, Tomáš Tasák, Magdalena Hykšová, Ond ej Navrátil, Old ich Hykš Magdalena Hykšová Ond ej Navrátil (Gar.) | Z,ZK | 5 | 2P+3C+20B | L | Ρ |
| 16LLA1 | Aircraft 1 Vladimír Plos, Michal erný, Karel Mündel, Daniel Urban, Karel Hylmar Vladimír Plos (Gar.) | KZ | 3 | 2P+1C | L | Ρ |
| 21LGI1 | Aviation Legislation 1 Jií uk Jií uk Radoslav Zozu ák (Gar.) | Z | 2 | 3P+0C | L | Ρ |
| 21LRY1 | Aircraft Engines 1 Tomáš Parýzek, Daniel Hanus, Vladimír Machula Daniel Hanus (Gar.) | KZ | 3 | 2P+1C | L | Ρ |
| 14PRG | Programming Alena Kubá ová, Jan Procházka, Martin Fiala, Jana Kaliková, Jan Kr ál, Lukáš Svoboda Jana Kaliková Jana Kaliková (Gar.) | КZ | 2 | 0P+2C+8B | E L | Ρ |

| 18SAT | Structural Analysis Jaromír Kylar, Veronika Drechslerová, Nela Kr má ová, Jitka ezní ková, Daniel Kytý, Jan Vy ichl, Tomáš Doktor, Jan Falta, Jan Šleichrt Daniel Kytý (Gar.) | Z,ZK | 4 | 2P+2C+14B | L | Р |
|--------|--|------|---|-----------|---|---|
| 11STAT | Statistics Pavel Provinský, Evženie Uglickich, Pavla Pecherková, Michal Matowicki, Natálie Blahitka, Ivan Nagy, Jana Kuklová Pavla Pecherková Evženie Uglickich (Gar.) | Z,ZK | 4 | 2P+2C+12B | L | Ρ |
| 14ZEL2 | Electronics Basics 2 Vít Fábera, Tomáš Musil, Daniel Beránek Vít Fábera Vít Fábera (Gar.) | Z,ZK | 4 | 2P+2C | L | Р |
| 21ZKL1 | Principles of Flight 1 Vladimír Machula, P emysl Vávra, Jakub Trýb P emysl Vávra P emysl Vávra (Gar.) | ZK | 3 | 2P+1C | L | Р |
| 21PXE2 | Training Course 2 Kate ina Stuchlíková | 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, Lenka Monková, Jitka He manová, | Z | 3 | 0P+4C+10E | B Z | Ρ |
| 11FYZ | Physics Old ich Hykš, Jana Kuklová, Pavel Demo, Zuzana Malá, Tomáš Vít Jana Kuklová Pavel Demo (Gar.) | Z,ZK | 5 | 2P+2C+18E | B Z | Ρ |
| 16LLA2 | Aircraft 2 Karel Mündel, Daniel Urban, Karel Hylmar, Jan Slezá ek | Z,ZK | 2 | 2P+1C | Z | Р |
| 21LRY2 | Aircraft Engines 2 Tomáš Parýzek, Daniel Hanus Daniel Hanus | Z,ZK | 3 | 2P+1C | Z | Р |
| 21LEUL | Aviation Maintenance Human Factors Oliver Dzvoník Oliver Dzvoník | Z,ZK | 5 | 3P+2C | Z | Р |
| 18PZP | Elasticity and Strength Jitka ezní ková, Daniel Kytý, Jan Vy ichl, Tomáš Doktor, Jan Šleichrt, Josef Jíra, Ond ej Jiroušek Ond ej Jiroušek Ond ej Jiroušek (Gar.) | Z,ZK | 3 | 2P+1C+10E | 8 Z | Ρ |
| 21UPUL | Introduction to Aircraft Maintenance Technology Kate ina Stuchlíková, Pavel Hovorka 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, Jana Kuklová, Zuzana Malá, Tomáš Vít Zuzana Malá Zuzana Malá (Gar.) | Z | 0 | 0P+2C | Z | V |

| Number of seme | ester: 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 Markéta Vojanová, Marie Michlová, Marek Tome ek, Jan Feit, Markéta Musilová, Peter Morpuss, Lenka Monková, Jitka He manová, Eva Rezlerová, | Z,ZK | 3 | 0P+4C+10B | L L | ZP |
| 14ENIK | Electronics Vít Fábera, Tomáš Musil Vít Fábera Vít Fábera (Gar.) | KZ | 4 | 2P+2C | L | Р |
| 21PRJ2 | Instrumentation 2 Pavel Hovorka Pavel Hovorka | ZK | 3 | 2P+0C | L,Z | Р |
| 18POMY | Advanced Materials Jaroslav Valach, Jaroslav Valach Jaroslav Valach (Gar.) | KZ | 2 | 2P+0C | L | Р |
| 21PYD1 | Aircraft Maintenance Technology 1 Pavol Hajla Jakub Kraus (Gar.) | KZ | 3 | 3P+1C | L | Р |
| 21SBU1 | Bachelor Thesis Seminar 1 Lenka Hanáková Lenka Hanáková (Gar.) | Z | 1 | 1P+0C | L | Р |
| 21V | Aircraft Propellers Martin Novák Martin Novák Martin Novák (Gar.) | Z,ZK | 6 | 3P+2C | L | Р |
| 21ZT | ATM Systems Stanislav Pleninger Stanislav Pleninger (Gar.) | ZK | 2 | 2P+0C | Z,L | Р |
| 11EMO | Electromagnetic Field and Optics Old ich Hykš, Jana Kuklová, Zuzana Malá, Tomáš Vít Zuzana Malá Pavel Demo (Gar.) | Z,ZK | 4 | 2P+1C | 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 4/4 | | | ZP |

| | 3 | | |
|--|---|--|--|
| | | | |

| Number of seme | ester: 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 Stuchlíková, Karel Mündel Karel Mündel | Z,ZK | 7 | 4P+3C | Z | Z |
| 21KTVL | Aircraft Structures and Production Technology Jakub Kraus 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 Jií uk Jií 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 Lenka Hanáková, Vladimír Socha Vladimír Socha | Z | 1 | 1P+0C | Z | Z |
| 21TUM1 | Turbine Engines 1 Ond ej Vítovec, Daniel Hanus, Jakub Kraus, Tomáš Hejna Daniel Hanus | KZ | 7 | 3P+3C | Z | Z |
| 21PIS1 | Piston Engine 1 Jakub Kraus Jakub Kraus Jakub Kraus (Gar.) | Z | 0 | 2P+2C | Z | Z |
| 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. 3 | Min/Max 4/4 | | | ZP |

| Number of seme | | [| 1 | | 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 |
| 21AVIA | Avionics Jan Rohá , Martin Šipoš Jan Rohá Jan Rohá (Gar.) | Z,ZK | 3 | 2P+2C | L | Z |
| 21KSY2 | Aircraft Construction and Systems 2 Karel Mündel Karel Mündel | Z,ZK | 7 | 4P+3C | L | Z |
| 21LAU2 | Aviation English 2 for Technology of Maintenance Jitka He manová Jitka He manová | Z | 2 | 0P+2C | L | Z |
| 11MSP | Modeling of Systems and Processes Bohumil Ková, Lucie Kárná Bohumil Ková Bohumil Ková (Gar.) | Z,ZK | 4 | 2P+2C+12B | 6 L | Z |
| 21PYD3 | Aircraft Maintenance Technology 3 Pavol Hajla | KZ | 5 | 3P+1C | L | Z |
| 21SBU3 | Bachelor Thesis Seminar 3 Lenka Hanáková Lenka Hanáková | Z | 1 | 1P+0C | L | ZP |
| 21TUM2 | Turbine Engines 2 Daniel Hanus, Tomáš Hejna Daniel Hanus | Z,ZK | 7 | 3P+3C | L | Z |
| 21PIS2 | Piston Engine 2 | Z | 0 | 2P+2C | L | Z |
| | | Min. cours. | | | | |
| X1-BP-TUL-23/24 | Projekty Bc. prezen ní TUL od 2023/24 | 3 | Min/Max | | | |
| | 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 courses and codes of members of this group (for specification see here or below the list of courses) | Completion | Credits | Scope | Semester | Role |
|-----------------|---|--------------------------------------|---------|-------|----------|------|
| X1-BP-TUL-23/24 | Projekty Bc. prezen ní TUL od 2023/24 | Min. cours. 3 Max. cours. 3 | Min/Max | | | ZP |

| 11X31U | Project 1 TUL | 12X31U | Project 1 TUL | 14X31U | Project 1 TUL | |
|--------|---------------|--------|---------------|--------|---------------|--|
| 15X31U | Project 1 TUL | 16X31U | Project 1 TUL | 17X31U | Project 1 TUL | |
| 18X31U | Project 1 TUL | 20X31U | Project 1 TUL | 21X31U | Project 1 TUL | |
| 22X31U | Project 1 TUL | 23X31U | Project 1 TUL | 11X32U | Project 2 TUL | |
| 12X32U | Project 2 TUL | 14X32U | Project 2 TUL | 15X32U | Project 2 TUL | |
| 16X32U | Project 2 TUL | 17X32U | Project 2 TUL | 18X32U | Project 2 TUL | |
| 20X32U | Project 2 TUL | 21X32U | Project 2 TUL | 22X32U | Project 2 TUL | |
| 23X32U | Project 2 TUL | 11X33U | Project 3 TUL | 12X33U | Project 3 TUL | |
| 14X33U | Project 3 TUL | 15X33U | Project 3 TUL | 16X33U | Project 3 TUL | |
| 17X33U | Project 3 TUL | 18X33U | Project 3 TUL | 20X33U | Project 3 TUL | |
| 21X33U | Project 3 TUL | 22X33U | Project 3 TUL | 23X33U | Project 3 TUL | |

List of courses of this pass:

| Code | Name of the course | Completion | Credits |
|--------------------|---|------------------------|--------------|
| 11CAL1 | Calculus 1 | Z,ZK | 7 |
| Sequence of real r | umbers and its limit. Basic properties of mappings. Function of one real variable, its limit and derivative. Indefinite integral, Newton integral. First-order differential equations, linear differential equations. | ral, Riemann integr | al, improper |
| 11CAL2 | | Z,ZK | 5 |
| | Calculus 2 ar differential equations and their systems, differential calculus of functions of several real variables. Riemann integral in Rn. Line and | | 5 |
| 11EMO | Electromagnetic Field and Optics Electric field. Electric current. Magnetic field. Electromagnetic field. Optics. Basics of solid-state physics. | Z,ZK | 4 |
| 11FYZ | Physics Kinematics, dynamics, Newton's laws, force fields, mechanics of continuum, thermodynamics, introduction to electrostatics and electrostati | Z,ZK | 5 |
| 11GIE | Geometry | KZ | 3 |
| | etry of curves - parameterization, the arc of the curve, torsion and curvature, Frenet's trihedron. Kinematics - a curve as a trajectory acceleration of a particle moving on a curved path. | 1 | elocity, and |
| 11LA | Linear Algebra | Z,ZK | 3 |
| | aar 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 classifica | ir solvability. Deter | - |
| 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 differ | | 1 - |
| | linear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer functi Discretization of continuous systems. System interconnection. | | |
| 11SCFZ | Seminar of Physics Solving problems on kinematics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermoc | | 0 |
| 11STAT | Statistics | Z,ZK | 4 |
| | lity Descriptive statistics Population and sample, limit theorem Point estimate, construction and properties Interval estimates Parame Regression and correlation analysis | 1 ' | 1 - |
| 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 algo- blean algebra to construct constraints in algorithms. Students will be introduced to the basics of the Python programming language will learn to work with variables of basic data types (integer, floating point and string) and the list data structure in their progr | variable, branching | |
| 14ENIK | Electronics | KZ | 4 |
| | al representation, radix systems, combinational logical circuits, Karnaugh maps, logical circuits realization, sequential logical circuits, counters, A/D and D/A convertors, programmable circuits (FPGA, SoC), computer terminology, computer architecture, single-chip conconcentration controllers, electrical buses. | - | |
| 14KSP | Constructing with Computer Aid | KZ | 2 |
| | rm determination. CAD role in projecting system model. Existing CAD systems on Czech market. Project creation, basic common we | 1 | 1 |
| and CA systems | . Co-ordinated systems, CAD environment skill (basics of constructing, dimensioning, modifications, user interfaces, projecting possi profiles, drawings with raster foundaments). | bilites, AutoCAD er | vironment |
| 14PRG | Programming | KZ | 2 |
| The Course Prog | ramming builds on and fully extends the course 14ASD (Algorithmization and Data Structures). The knowledge of the Python progra articipant gains skills and can apply them to solve various follow-up tasks. Main topics: lists, multidimensional arrays, sorting and sear working with date and time, regular expressions, functions and procedures, working with files (CSV, JSON, XML). | , mming language is | • |
| 14X31U | Project 1 TUL | Z | 1 |
| 14X32U | Project 2 TUL | Z | 2 |
| 14X33U | Project 3 TUL | Z | 1 |
| 147330 | | L 2 | |

| 14ZEL1 | | 7 71/ | |
|---|--|--|--|
| | Electronics Basics 1 | Z,ZK | 5 |
| | ns, electron theory, static electricity, electrical conductivity and terminology, electrical resistance, resistor, capacity and capacitor, indu city method, superposition, node-voltage method, mesh - circuit method, AC current, characteristics of AC waveforms, 3-phase el. po | | |
| | symbolic method, power, filters. | wei, Ao circuits - | Oteninetz |
| 14ZEL2 | Electronics Basics 2 | Z,ZK | 4 |
| | icity and the DC power sources, magnetism, DC motors and generators, AC motors (synchronous, asynchronous, 1-phase, 3-phase), s | | - |
| | AC generators. | мерреі motors, в | |
| 14ZLEN | Basics of Electronics | KZ | 3 |
| | | | - |
| | PN junction, diodes, rectifiers, SCR, diac, triac, Zener diode, Schottky diode, photodiode, bipolar junction transistor, transistor circuits, | | |
| | uits, technology of integrated circuits, feedback theory, operational amplifiers, printed circuit boards, servo-systems, oscillators, switch | | |
| 15JZ1A | Foreign Language - English 1 | Z | 3 |
| irammatical Struct | ures and Style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and con | | s. Elementa |
| | stylistics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles of | | - |
| 15JZ2A | Foreign Language - English 2 | Z,ZK | 3 |
| rammatical struct | ures and style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and com | | s. Elementa |
| | stylistics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles of | | |
| 15X31U | Project 1 TUL | Z | 1 |
| 15X32U | Project 2 TUL | Z | 2 |
| 15X33U | Project 3 TUL | Z | 1 |
| 16LLA1 | Aircraft 1 | KZ | 3 |
| - | nd conceptual design types - definitions and basic knowledge of the problem. Development of requirements, aircraft definitions and cat | | - |
| | Systems of primary and secondary airframe structure. Airframe and propulsion unit. Lectures are devoted to aeroplane topics | - | |
| 16LLA2 | Aircraft 2 | Z,ZK | 2 |
| | i protect 2 prot | | |
| | structures. Aeroelasticity. Inherent and operational reliability of aircraft structure. Fatigue strength. Aircraft structure lifetime presun | | |
| 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 |
| 17X33U | Project 3 TUL | Z | 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 microstructur | | - |
| 18POMY | Advanced Materials | K7 | 2 |
| | Advanced Materials ned in primary materials course is further developed. In greater physical detail it explains dynamics of strcture defects, phase diagram processes of structure control are discussed. The gained knowledge is utilized on description of contemporary technologies of materia | | |
| he knowledge gai | | s of binary syster | ms and oth |
| he knowledge gai oncepts. Special p | ned in primary materials course is further developed. In greater physical detail it explains dynamics of strcture defects, phase diagrams processes of structure control are discussed. The gained knowledge is utilized on description of contemporary technologies of materia applications. | s of binary system I production for k | ms and oth |
| he knowledge gai oncepts. Special p 18PZP | ned in primary materials course is further developed. In greater physical detail it explains dynamics of strcture defects, phase diagrams processes of structure control are discussed. The gained knowledge is utilized on description of contemporary technologies of materia applications. Elasticity and Strength | s of binary system I production for k Z,ZK | ms and oth key industr |
| he knowledge gai oncepts. Special p 18PZP | ned in primary materials course is further developed. In greater physical detail it explains dynamics of strcture defects, phase diagrams processes of structure control are discussed. The gained knowledge is utilized on description of contemporary technologies of materia applications. Elasticity and Strength ession. Bending of beam. Shear stress in bending of beam. Design and analysis of cross section of beam. Design of riveted, bolted ar | s of binary system I production for k Z,ZK | ms and oth key industr |
| he knowledge gai oncepts. Special p 18PZP ension and compr | ned in primary materials course is further developed. In greater physical detail it explains dynamics of strcture defects, phase diagrams processes of structure control are discussed. The gained knowledge is utilized on description of contemporary technologies of materia applications. Elasticity and Strength ession. Bending of beam. Shear stress in bending of beam. Design and analysis of cross section of beam. Design of riveted, bolted ar Analysis of deflection curve of beams. Torsion of circular cross sections. Combined loading. Stability. | s of binary system al production for k Z,ZK nd welded joints of | ms and oth key industr 3 of structure |
| he knowledge gai oncepts. Special p 18PZP ension and compr 18SAT | ned in primary materials course is further developed. In greater physical detail it explains dynamics of strcture defects, phase diagrams processes of structure control are discussed. The gained knowledge is utilized on description of contemporary technologies of materia applications. Elasticity and Strength ession. Bending of beam. Shear stress in bending of beam. Design and analysis of cross section of beam. Design of riveted, bolted ar Analysis of deflection curve of beams. Torsion of circular cross sections. Combined loading. Stability. Structural Analysis | s of binary system al production for H Z,ZK nd welded joints of Z,ZK | ms and oth key industr 3 of structure 4 |
| he knowledge gai oncepts. Special p 18PZP ension and compr 18SAT General system o | ned in primary materials course is further developed. In greater physical detail it explains dynamics of strcture defects, phase diagrams processes of structure control are discussed. The gained knowledge is utilized on description of contemporary technologies of materia applications. Elasticity and Strength ession. Bending of beam. Shear stress in bending of beam. Design and analysis of cross section of beam. Design of riveted, bolted ar Analysis of deflection curve of beams. Torsion of circular cross sections. Combined loading. Stability. Structural Analysis of forces in plane and space. Calculation of reactions of bodies and structures. Assessment of internal forces on statically determinate | s of binary system al production for H Z,ZK nd welded joints of Z,ZK beams and simp | ms and oth key industr 3 of structur 4 ple girders |
| he knowledge gai oncepts. Special p 18PZP ension and compr 18SAT General system o | ned in primary materials course is further developed. In greater physical detail it explains dynamics of strcture defects, phase diagrams processes of structure control are discussed. The gained knowledge is utilized on description of contemporary technologies of materia applications. Elasticity and Strength ession. Bending of beam. Shear stress in bending of beam. Design and analysis of cross section of beam. Design of riveted, bolted ar Analysis of deflection curve of beams. Torsion of circular cross sections. Combined loading. Stability. Structural Analysis of forces in plane and space. Calculation of reactions of bodies and structures. Assessment of internal forces on statically determinate york. Kinematic method for calculation of reactions of statically determinate systems. Determination of axial forces in truss constructions. | s of binary system al production for H Z,ZK nd welded joints of Z,ZK beams and simp | ms and oth key industr 3 of structur 4 ple girders |
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| 21LES2 | Aviation Legislation 2 | KZ | 2 |
|---|--|--|---|
| - | Commission regulation (EU) 1321/2014, Part 66, Part 145, Part 147, Part CAMO, Part CAO, Commission regulation (EU) 965/2 | 2012 | ı |
| 21LEUL Human fact | Aviation Maintenance Human Factors | Z,ZK | 5 |
| 21LGI1 | Aviation Legislation 1 | Z | 2 |
| | tion legislation. Sphere of action of the CAA, ICAO, EASA. Part M and ML (continuing airworthiness), maintenance programmes, AD 21 (initial airworthiness), design and production of aircraft. | s, airworthiness | reviews. Pa |
| 21LRY1 | Aircraft Engines 1 | KZ | 3 |
| | ne, theoretical background, operational characteristics and construction schemes. Propellers, operational characterictics. Turbine en nstruction schemes, operational characteristics. Turbojet and turbofan engines, basic construction modules, and their operational cha | | |
| 21LRY2 | Aircraft Engines 2 rifugal compressor, combustion chamber, turboshaft engines, ramjets, power, thermal efficiency and fuel consumption, starting aircra idling speed. | Z,ZK aft turbine engine | 3 s, idling an |
| 21PIS1 | Piston Engine 1 | Z | 0 |
| - | ncy, duty cycles, stroke and compression ratio, engine layout and ignition. Engine power calculation. Measurement of key engine paran fuel flow. Engine design. Valve distributions. Starting systems. Engine exhaust systems. Engine cooling system. | _ | |
| 21PIS2 | Piston Engine 2 | Z | 0 |
| Design and opera | ation of supercharged engines. Lubrication and fuel system. Engine mounting and covers. Engine storage. Construction of hoses and Inspection and storage of the engine, including its accessories. | d pipes. Startup p | procedure. |
| 21PRJ2 | Instrumentation 2 | ZK | 3 |
| Compass, gyroscop | ic instruments (turn indicator, attitude indicator, directional gyro), inertial instruments, recording and monitoring systems, warning systems (autopilot, flight director, autothrust), FMS, flight envelope protection, communication systems, flight computers. | stems (TCAS, G | PWS), AFC |
| 21PXE1 | Training Course 1 Tools identification and their use. Various material treatment. Joining methods for different joints and their removal. | Z | 0 |
| 21PXE2 | Training Course 2 Special tools and measurement equipment identification and their use. Basics of machine-tool control. | Z | 0 |
| 21PYD1 | Aircraft Maintenance Technology 1 | KZ | 3 |
| | course, which introduces students to the basic techniques of joining both metallic and non-metallic materials. These techniques are main introduces the basic metals and non-metals, including composites, which are part of modern aircraft. Last but not least, techniques for cables, pipes and hoses to aircraft are presented. | | - |
| 21PYD2 | Aircraft Maintenance Technology 2 | KZ | 4 |
| | Alicial Maintenance recimology 2 | 112 | |
| he second part of t | he course introduces all currently used inspection methods, including non-destructive ones, that are used in aviation. Focus is also or | the issues of ma | aterial fatio |
| | he course introduces all currently used inspection methods, including non-destructive ones, that are used in aviation. Focus is also or ents are also introduced to aircraft handling methods and the effect of the environment on the operation of the aircraft. Methods of weig are introduced, including the determination of its centre of gravity. | | - |
| - | ents are also introduced to aircraft handling methods and the effect of the environment on the operation of the aircraft. Methods of weig | | - |
| 21PYD3 | ents are also introduced to aircraft handling methods and the effect of the environment on the operation of the aircraft. Methods of weig are introduced, including the determination of its centre of gravity. Aircraft Maintenance Technology 3 dents with a detailed overview of organisations involved in heavy aircraft maintenance, maintenance planning and also technical doct | hing and balanci KZ umentation. Last | ng an aircr |
| and corrosion. Stude 21PYD3 Course provides stu- his course introduce | ents are also introduced to aircraft handling methods and the effect of the environment on the operation of the aircraft. Methods of weig are introduced, including the determination of its centre of gravity. Aircraft Maintenance Technology 3 | hing and balanci KZ umentation. Last | ng an aircr |
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| and corrosion. Stude 21PYD3 Course provides stu- his course introduce 21RATE EM field, radio wav 21SBU1 | ents are also introduced to aircraft handling methods and the effect of the environment on the operation of the aircraft. Methods of weig are introduced, including the determination of its centre of gravity. Aircraft Maintenance Technology 3 dents with a detailed overview of organisations involved in heavy aircraft maintenance, maintenance planning and also technical doct as how to deal with various aircraft system failures as well as various structural damage and aircraft modifications. Students are also intro system and storage procedures in heavy aircraft maintenance. Radiotechnology ves, propagation, radio spectrum, information transmission, signal processing, modulations, signal coding, radio transceivers, antenr systems in aviation. Bachelor Thesis Seminar 1 | hing and balance KZ umentation. Last iduced to the self ZK nas, and applicat Z | ng an aircr 5 but not lea manageme 2 ion of radic |
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| 21ZLKS | Basics of Aircraft Structures and Systems | KZ | 4 | | | |
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| | Basics of screening, technical drawing, technological and operational signs. Hydraulic, pneumatic, fuel, electricity and block diagrams in aviation. | | | | | |
| 21ZT | ATM Systems | ZK | 2 | | | |
| The course int | roduces classical and modern facilities, systems and technologies designated for ATS. Student obtains knowledge of technical princip | les and solutions | as far as | | | |
| | communication, navigation and surveillance aviation systems are concerned. | | | | | |
| 22X31U | Project 1 TUL | Z | 1 | | | |
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