Study plan

Name of study plan: PRE bak. studium oboru MED roz azení od 15-16, od 3.ro níku obor MED v KOMBI form

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: 169
Elective courses credits: 11
Sum of credits in the plan: 180

Note on the plan:

Name of the block: Compulsory courses Minimal number of credits of the block: 133

The role of the block: Z

Code of the group: 1S PRE 14-15 P

structures. Labour and capital, efficiency, ownership, public choice.

Name of the group: 1. sem. PRE 14-15 povinné p edm ty (spol. ást studia) 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 12 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 |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|-----------|----------|------|
| 611LA | Linear Algebra Romana Zibnerová Romana Zibnerová Martina Be vá ová (Gar.) | Z,ZK | 3 | 2P+1C+10B | Z | Z |
| 611MTA | Mathematical Analysis | Z,ZK | 4 | 2+2 | Z | Z |
| 612ZADI | Introduction to Transportation Engineering | Z,ZK | 3 | 2+1 | Z | Z |
| 617E | Economics | Z,ZK | 3 | 2+1 | Z | Z |
| 618MRI1 | Materials 1 | Z,ZK | 3 | 2+1 | Z | Z |
| 611GIE | Geometry Vít Malinovský Šárka Vorá ová (Gar.) | KZ | 3 | 2P+2C+12B | Z | Z |
| 614KSP | Constructing with Computer Aid Libor Žídek | KZ | 2 | 0P+2C+8B | Z | Z |
| 614ZINF | Fundamentals of Informatics | KZ | 2 | 0+2 | Z | Z |
| 618TTED | Creation of Technical Documentation | KZ | 2 | 2+1 | Z | Z |
| 621ZLD | Introduction to Air Transport | KZ | 2 | 2+1 | Z | Z |
| 622UN | Traffic Accidents Introduction | Z | 2 | 2+0 | Z | Z |
| TV-1 | Physical Education | Z | 1 | | Z | Z |

Characteristics of the courses of this group of Study Plan: Code=1S PRE 14-15 P Name=1. sem. PRE 14-15 povinné p edm ty (spol. ást studia)

| 611LA | Linear Algebra | Z,ZK | 3 |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------|
| Vector spaces (linea | ar combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and | their solvability. D | eterminants and |
| their applications. S | icalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classification. | | |
| 611MTA | Mathematical Analysis | Z,ZK | 4 |
| Sequences and ser | ies of real numbers and its convergence. Basic properties of functions. Differential and integral calculus of the real function of one | real variable. Pow | er series, Fourier |
| series and foundation | ons of Fourier transform. | | |
| 612ZADI | Introduction to Transportation Engineering | Z,ZK | 3 |
| Traffic survey. Terres | strial roads. Residential zone. Land - use planning. Railway transport. Public mass transport. Integrated traffic systems. Traffic pro | gnosis. Traffic saf | ety. Air transport |
| Traffic and environn | nent. | | |
| 617E | Economics | Z,ZK | 3 |
| Microeconomic and | I macroeconomic interpretation of economic relations. Method and subject of the economics. Economic decision making of consi | imers and produc | ers. Market |

| 618MRI1 | Materials 1 | Z,ZK | 3 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------|
| Crystal structure. Ba | sics of thermodynamics of metals and their alloys. Balanced binary diagrams. Alloys of iron with carbon. Deterioration of solid s | solutions. Heating p | rocessing of |
| steel and cast irons | Physical features. Mechanical features. Dephectostopic testing. Corosion. | | |
| 611GIE | Geometry | KZ | 3 |
| Orthographic and ol | olique projections, linear perspective. Topographic surfaces and their orthogonal projection. Differential geometry of curves - par | rameterization, arc | of the curve, |
| torsion and curvatur | e, Frenet's trihedron. Kinematics - a curve as a trajectory of the motion, the velocity and acceleration of a particle moving on a | curved path. | |
| 614KSP | Constructing with Computer Aid | KZ | 2 |
| 'CAD systems" tern | n determination. CAD role in projecting system model. Existing CAD systems on Czech market. Project creation, basic common | work rules in grap | hic applications |
| and CA systems. Co | -ordinated systems, CAD environment skill (basics of constructing, dimensioning, modifications, user interfaces, projecting pos | sibilites, AutoCAD | environment |
| profiles, drawings w | ith raster foundaments). | | |
| | | | |
| 614ZINF | Fundamentals of Informatics | KZ | 2 |
| | Fundamentals of Informatics ty network, MS-Word and Open Office, use of styles and advanced features, computer functions and information transmission. | 1 | _ |
| Introduction to facul | | Number systems in | ncl. arithmetic |
| Introduction to facul | ty network, MS-Word and Open Office, use of styles and advanced features, computer functions and information transmission. In the transmission and their proprieties. Flow charts for algorithms drawing. Mathematic and logic ordering algorithms incl. functions and procedure. | Number systems in | ncl. arithmetic |
| Introduction to facul calculations. Algorith graphs, calculations | ty network, MS-Word and Open Office, use of styles and advanced features, computer functions and information transmission. In the transmission and their proprieties. Flow charts for algorithms drawing. Mathematic and logic ordering algorithms incl. functions and procedure. | Number systems in | ncl. arithmetic |
| Introduction to facul calculations. Algorith graphs, calculations 618TTED | ty network, MS-Word and Open Office, use of styles and advanced features, computer functions and information transmission. In ms and their proprieties. Flow charts for algorithms drawing. Mathematic and logic ordering algorithms incl. functions and proced, functions. | Number systems in dures. Work with M | ncl. arithmetic S-Excel - tables |
| Introduction to facul calculations. Algorith graphs, calculations 618TTED Technical standards | ty network, MS-Word and Open Office, use of styles and advanced features, computer functions and information transmission. In ms and their proprieties. Flow charts for algorithms drawing. Mathematic and logic ordering algorithms incl. functions and procedent functions. Creation of Technical Documentation | Number systems in dures. Work with M | ncl. arithmetic S-Excel - tables |
| Introduction to facul calculations. Algorith graphs, calculations 618TTED Technical standards arrangement of drav | ty network, MS-Word and Open Office, use of styles and advanced features, computer functions and information transmission. It may and their proprieties. Flow charts for algorithms drawing. Mathematic and logic ordering algorithms incl. functions and proced functions. Creation of Technical Documentation | Number systems in dures. Work with M | ncl. arithmetic S-Excel - tables |
| Introduction to facul calculations. Algorith graphs, calculations 618TTED Technical standards arrangement of dray 621ZLD | ty network, MS-Word and Open Office, use of styles and advanced features, computer functions and information transmission. It may and their proprieties. Flow charts for algorithms drawing. Mathematic and logic ordering algorithms incl. functions and proced, functions. Creation of Technical Documentation International standardization, types of technical drawings, representation of technical objects, technical diagrams and charts, dimiting sheets, types of schemes and their creation. | Number systems in dures. Work with M | ncl. arithmetic S-Excel - tables 2 hetrical accuracy |
| Introduction to facul calculations. Algorith graphs, calculations 618TTED Technical standards arrangement of dray 621ZLD Air transport as a co | ty network, MS-Word and Open Office, use of styles and advanced features, computer functions and information transmission. It may and their proprieties. Flow charts for algorithms drawing. Mathematic and logic ordering algorithms incl. functions and proced, functions. Creation of Technical Documentation International standardization, types of technical drawings, representation of technical objects, technical diagrams and charts, dimiting sheets, types of schemes and their creation. Introduction to Air Transport | Number systems in dures. Work with M | ncl. arithmetic S-Excel - tables 2 hetrical accuracy |
| Introduction to facul calculations. Algorith graphs, calculations 618TTED Technical standards arrangement of dray 621ZLD Air transport as a co | ty network, MS-Word and Open Office, use of styles and advanced features, computer functions and information transmission. It is and their proprieties. Flow charts for algorithms drawing. Mathematic and logic ordering algorithms incl. functions and proced, functions. Creation of Technical Documentation International standardization, types of technical drawings, representation of technical objects, technical diagrams and charts, dimiting sheets, types of schemes and their creation. Introduction to Air Transport | Number systems in dures. Work with M | ncl. arithmetic S-Excel - tables 2 hetrical accuracy |

Code of the group: 2S PRE 14-15 P

Name of the group: 2. sem. PRE 14-15 povinné p edm ty (spol. ást studia) 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 12 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 |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|-------|----------|------|
| 611FY1 | Physics 1 | Z,ZK | 4 | 2+2 | L | Z |
| 611MVP | Mathematical Analysis of Function of More Variables | Z,ZK | 3 | 2+2 | L | Z |
| 612PKD | Rail Transport Designing | Z,ZK | 3 | 2+2 | L | Z |
| 617TDL | Transport Technology and Logistics | Z,ZK | 3 | 2+2 | L | Z |
| 618ST | Statics | Z,ZK | 3 | 2+1 | L | Z |
| 620UIS | Introduction to ITS | Z,ZK | 3 | 2+1 | L | Z |
| 614SIAP | Networks and Protocols | KZ | 2 | 1+1 | L | Z |
| 614UPRO | Introduction to Programming | KZ | 2 | 0+2 | L | Z |
| 617EDOT | Economy, Transport, Telecommunications | KZ | 2 | 2+0 | L | Z |
| 618MRI2 | Materials 2 | KZ | 2 | 2+0 | L | Z |
| 611PT | Probability | Z | 2 | 1+1 | L | Z |
| TV-2 | Physical Education | Z | 1 | | L | Z |

Characteristics of the courses of this group of Study Plan: Code=2S PRE 14-15 P Name=2. sem. PRE 14-15 povinné p edm ty (spol. ást studia)

| 611FY1 | Physics 1 | Z,ZK | 4 |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------|
| Kinematics, particle | e dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodynamics, electric field, directed electric | current. | • |
| 611MVP | Mathematical Analysis of Function of More Variables | Z,ZK | 3 |
| Metric spaces, seq | uences in metric spaces, limit of sequence in metric space. Differential calculus of functions of several variables, differential of fur | nction, partial deriv | ations, implicitly |
| defined functions, | extremes of functions of several variables. Integral calculus of functions of several variables, Riemann integral, integral over curve | s and surfaces in | R3, application |
| of integral calculus | in physics. | | |
| 612PKD | Rail Transport Designing | Z,ZK | 3 |
| D = 11= 11= | | | |
| kaliway iines netw | ork. Vehicle and track relation. Traction. Track geometrical parameters. Clearance profile. Railway lines routing. Superstructure and | a substructure of t | ne raiiway iines. |
| • | ork. Venicie and track relation. Iraction. Irack geometrical parameters. Clearance profile. Raliway lines routing. Superstructure and stations. City rail transport. | d substructure of t | ne railway lines. |
| • | | Z,ZK | ne railway lines. |
| Switches. Railway | stations. City rail transport. | Z,ZK | 3 |
| Switches. Railway 617TDL Basic terms in tran | stations. City rail transport. Transport Technology and Logistics | Z,ZK g. Planning in pasa | 3 anger and freigh |
| Switches. Railway 617TDL Basic terms in tran transport. Organisa | stations. City rail transport. Transport Technology and Logistics sport technology and logistics. Particular steps of transport planning. Quantification of carriage relations. Line planning. Timetabling | Z,ZK g. Planning in pasa | 3 anger and freigh |
| Switches. Railway 617TDL Basic terms in tran transport. Organisa | stations. City rail transport. Transport Technology and Logistics sport technology and logistics. Particular steps of transport planning. Quantification of carriage relations. Line planning. Timetabling attorned transport means. Technological factors from the point of view of operator and client. Organisation of public contents. | Z,ZK g. Planning in pasa | 3 anger and freigh |

General system of forces. Calculation of reactions of mass objects and compound systems. Assessment of internal forces on statically determinate beam and simple framework. Principle of virtual works. Kinematic method for calculation of reactions of statically determinate systems. Determination of axial forces in truss construction, method of joints and method of sections. Geometry of cross sections. Plane fiber polygons and catenary cables.

| 620UIS | Introduction to ITS | Z,ZK | 3 |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------------------|
| Intelligent Transport Sy | stems (ITS), their objectives and vision. ITS in the world, in Europe and in the Czech Republic. Architecture of ITS and the ro | le of standardizati | on. Information |
| and navigation systems | s. ITS in road, rail and combine transport. Design of ITS, organization, preparation and implementation of the project. Current | projects in the Cz | ech Republic. |
| 614SIAP | Networks and Protocols | KZ | 2 |
| Basic communication n | nodel, history and development of the Internet, principle of data transfer through computer networks (TCP/IP), performance o | of basic network pr | otocols (ARP, |
| RARP, TCP, UDP, Telne | t, FTP, DNS, DHCP POP3, IMAP), data acquirement from the Internet sources, communicating ability via the Internet and fund | lamentals of own v | veb presentation |
| design by the means of | f web sites. | | |
| 614UPRO | Introduction to Programming | KZ | 2 |
| Algorithm development | , methods of structured programming, high-level programming languages, basics of C programming languages (types, variab | les, conditions, cy | cles, arrays, |
| functions), programmin | g techniques, complexity. | | |
| 617EDOT | Economy, Transport, Telecommunications | KZ | 2 |
| Transport, telecommun | ications, demand, supply, indicators, economic development, legislation, European union, regulation, liberalisation, transport | modes, ITS, susta | ainability. |
| 618MRI2 | Materials 2 | KZ | 2 |
| Fundamental concepts | , notions. The main materials groups. Semiconductors. Polymers. Special types of steel. Properties and application of the con | nposite materials. | |
| 611PT | Probability | Z | 2 |
| Descriptive statistics. B | asic probability concepts: elementary events and events, definitions and interpretation of probability. Random variable, proba | bility distribution, p | probability mass |
| and density, moments, | some discrete and continuous distributions. Random vectors: joint and marginal distributions, mean vector, covariance matrix | Mixed distributio | ns, mixture of |
| | | | |
| distributions. Law of lar | ge numbers, central limit theorem. | | |

Code of the group: 3S PRE 15-16 P

Name of the group: 3. sem. bak. PRE 15-16 povinné p edm ty (spol. ást studia)

Requirement credits in the group: In this group you have to gain 27 credits

Requirement courses in the group: In this group you have to complete 10 courses

Credits in the group: 27 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 |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|-----------|----------|------|
| 611DAD | Differential and Difference Equations | Z,ZK | 3 | 2+1 | Z | Z |
| 611FY2 | Physics 2 | Z,ZK | 4 | 2+2 | Z | Z |
| 611SIS | Statistics | Z,ZK | 2 | 1+1 | Z | Z |
| 612MDE | Transport Models and Transport Excesses Josef Kocourek, Tomáš Pad lek Josef Kocourek (Gar.) | Z,ZK | 3 | 2P+1C+8E | 3 Z | Z |
| 616UDDM | Introduction to Transportation and Manipulation Technics | ZK | 2 | 2+0 | Z | Z |
| 618PZP | Elasticity and Strength Tomáš Doktor Ond ej Jiroušek (Gar.) | Z,ZK | 3 | 2P+1C+10E | S Z | Z |
| 620SSA | Systems Analysis | Z,ZK | 3 | 2+1 | Z | Z |
| 612PPOK | Designing Roads, Highways and Motorways Tomáš Pad lek, Petr Kumpošt | KZ | 3 | 1P+2C+10E | B Z | Z |
| 614UATT | Introduction to Automatization and Telecommunication Systems | KZ | 2 | 3+0 | Z | Z |
| 614ZAET | Fundamentals of Electrotechnics | KZ | 2 | 2+1 | Z | Z |

Characteristics of the courses of this group of Study Plan: Code=3S PRE 15-16 P Name=3. sem. bak. PRE 15-16 povinné p edm ty (spol. ást studia)

| (spol. ást studia) | | | |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------|
| 611DAD | Differential and Difference Equations | Z,ZK | 3 |
| Concept of a differentia | equation of the first order and some methods of its solution. Differential equations of the n-th order, linear diferential equation | s. Initial and bour | ndary conditions |
| for ordinary linear differ | ential equation of the second order. Systems of linear differential equations. Difference equations, linear difference equations | and their systems | S |
| 611FY2 | Physics 2 | Z,ZK | 4 |
| Magnetic field, electrom solid body physics. | agnetic field. Optics, quantum character of electromagnetic radiation. Introduction into quantization, hydrogen atom. Multi-ele | ctron atoms, the r | nuclei. Basics of |
| 611SIS | Statistics | Z,ZK | 2 |
| Point estimation, proper | ties of point estimators, methods of point estimation. Testing statistical hypothesis. Fit test, independence test. Regression an | d correlation, line | ar regression, |
| correlation coefficient, c | oefficient of determination, general linear model, statistical inference in linear regression, analysis of variance, multiple regress | ion, use of matrice | es in regression. |
| 612MDE | Transport Models and Transport Excesses | Z,ZK | 3 |
| Parameters of the traffic | cflow and methods for their measurement. Models of the traffic flow, communications load, line and urban systems. Theory of | queues, shock w | aves. Quality of |
| | sment. Statistical characteristics of transport. Transport excesses, their analysis, the causes, identify and minimize the conseq | uences. Improvin | g of transport |
| safety and fluency. | | | |
| 616UDDM | Introduction to Transportation and Manipulation Technics | ZK | 2 |
| Means of transportation | and transportation systems. Principles, functions and arrangement of means of transportation. Motors and their characteristics. | Vater transportati | on. Manipulating |
| technics. Principles of li | fting machines and conveyors. Legislature. | | |
| 618PZP | Elasticity and Strength | Z,ZK | 3 |
| Tension and compression | on. Bending of beam. Shear stress during bending of beam. Design and analysis of cross section of beam. Design of riveted, bo | lted and welded j | oint of structure. |
| Analysis of deflection of | urve of beam. Torsion of circle cross section. Combined loading. Stability of compressed bar and buckling. Beam on elastic for | undation. Strength | n analysis. |

620SSA Systems Analysis Systems identification. Typical tasks of systems analysis: on the interface, routes in system, decomposition and integration, on systems feedback. Capacity tasks, process analysis. Task about behaviour, aim behaviour, the genetic code, architecture and identity of systems. Fundamentals of technical cybernetics, stability and reliability of systems

Designing Roads, Highways and Motorways

K7

3

Definition, types, ownership, maintenance, management and categorization of roads and highways. Curve and transition curve. Sinuosity and standard speed. Route in rural areas. Range of vision for stopping and overtaking. Road body - shapes and proportions, bottom and superstructure. Drainage and components of roads. Safety device. Crossings, junctions, intersections

614UATT Introduction to Automatization and Telecommunication Systems ΚZ

Basic axioms of technical cybernetics, automatization in transportation, human as the weakest element, signalling in transpotation, modelling and projecting of transport systems, integrated technological and infromation system in post, principle of telecommunication signal transmission, solving of telecommunication networks, modulating methods, multimedial networks and services, NGN networks.

614ZAFT Fundamentals of Electrotechnics

Basic electrotechnic terms, circuit quantities. Periodic courses characteristics. Electric circuits elements and basic circuit members. Assignating of bipoles and basic circuit elements. Solution to direct current circuits with a help of circuit analysis elementar methods: method of consecutive reduction, unloaded voltage divider, current divider. Transfiguration star-triplangel and principle of superposition in direct current circuits.

Code of the group: 4S P MED 15-16 P

Name of the group: 4. sem. bak. PRE MED 15-16 povinné p edm ty

Requirement credits in the group: In this group you have to gain 21 credits

Requirement courses in the group: In this group you have to complete 9 courses

Credits in the group: 21 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 |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|-----------|----------|------|
| 611MSP | Modeling of Systems and Processes Jana Kuklová, Bohumil Ková Bohumil Ková (Gar.) | Z,ZK | 4 | 2P+2C+12E | L | Z |
| 617EDTP | Economy and Management of Transport and Telecommunication Processes | Z,ZK | 3 | 2+1 | L | Z |
| 617MVD | Marketing in Transportation | Z,ZK | 2 | 2+1 | L | Z |
| 618KIAD | Kinematics and Dynamics | Z,ZK | 2 | 2+1 | L | Z |
| 617EM | Management Science | KZ | 2 | 2+0 | L | Z |
| 617GEDS | Geography of Transport Systems Milan K iż | KZ | 2 | 2P+0C+8E | L | Z |
| 617MEKA | Methods of Economics Analysis | KZ | 2 | 2P+0C+8E | Z | Z |
| 617RIP | Project Management | KZ | 2 | 2+0 | L | Z |
| 617HG | Economic Geography | Z | 2 | 2+0 | L | Z |

Characteristics of the courses of this group of Study Plan: Code=4S P MED 15-16 P Name=4. sem. bak. PRE MED 15-16 povinné p edm ty

611MSP Modeling of Systems and Processes Z,ZK System and subsystem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differential and differential equations. Linear and nonlinear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer function. Stability of LTI systems. Discretization of continuous systems. System interconnection.

617EDTP Economy and Management of Transport and Telecommunication Processes Transport and telecommunication system, financing of transport infrastructure, transport policy, transport service, energy sources, public goods, externalities in transport and their

treatment, assessment of public projects, CBA method, transport company, costing in transportation, transport quality.

617MVD Marketing in Transportation Z.ZK 2 General principles of the marketing applied in transportation. Marketing, marketing research, macroworld, microworld, markets, market positioning, products, brands, package, service, pricing, distribution channels, physical distribution, retail, wholesale, promotion, advertising, segmentation, placement, action plan.

618KIAD Kinematics and Dynamics

Motion along a line, motion along a curve. Kinematics of rigid plane, kinematics of rigid body. Point mass kinematics, system of point masses. Point mass dynamics and system of point masses, equation of motion. Method of Newton. Princle of D'Alembert. Free and forced vibration with one degree of freedom. Viscous damping. Impact theory. Introduction to the solution of vibration with multiple degrees of freedom.

617EM Management Science Linear Programming, graphical interpretation and solution of LP problem. Types of distribution problems, transportation problem. Models of network analysis. Models of queuing theory,

Models of inventory management. Simulation models. 617GEDS Geography of Transport Systems ΚZ 2

Regional differentiation of the transport system. Sociogeographic regionalization and its relation to transport. Transport and local and regional development. Spatial interaction theoretical and methodological framework. Mobility research - travel behavior, mode choice and the influence onto "modal-split." Modal competition. Practical use of transport-geographical analysis in transportation planning.

617MEKA Methods of Economics Analysis The techniques of economical analysis in the domain of analysis of dependencies, analysis and construction of time series and comparsion of statistical values using differencies and indices

617RIP **Project Management**

Project, influences, pressures and influences. Entrepreneurial plan and capital decision making. Marketing, break-even point assessment. Project management and his characters. Organizational structures in project management. Feasibility study. Capital and operational costs assessment. Process of choosing optimal variant. Cost Benefit Analysis. Models of project financing. Life cycle of project. Financial anal. of capital projects. Project risks

Economic Geography

world. Particular transport modes as part of the economy and the world transport system.

Introduction of the issues, definitions and introductory concepts. World geography and its research subject. Economic geography - Europe, Asia, Africa, Australia, America, the Czech Republic. Transport geography and its research subject. Characteristics of transportation as one of the branches of the global economy. Transport systems and their location in the

Code of the group: 4S P MED 15-16 PV

Name of the group: 4. sem. bak. PRE MED 15-16 povinné p edm ty-výb r Requirement credits in the group: In this group you have to gain 2 credits

Requirement courses in the group: In this group you have to complete 1 course

Credits in the group: 2 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 |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|-------|----------|------|
| 614EAT | Economic Analyses in Spreadsheets Programs Environment | KZ | 2 | 0+2 | L | Z |
| 614WS1 | Webdesign With Web Standards 1 | KZ | 2 | 0+2 | L | Z |

Characteristics of the courses of this group of Study Plan: Code=4S P MED 15-16 PV Name=4. sem. bak. PRE MED 15-16 povinné p edm ty-výb r

| 614EAT | Economic Analyses in Spreadsheets Programs Environment | KZ | 2 | | |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|--|--|
| Work with spreadsheet | Vork with spreadsheet programs with the respect to economic problems, use of nested functions and conditional formatting, statistic and mathematic functions. Creation of graphs | | | | |
| other graphic outputs. D | Data analysis, lists and contingent tables. | | | | |
| 614WS1 | Webdesign With Web Standards 1 | KZ | 2 | | |

HTTP, URL, markup languages HTML and XHTML, anchors, tables, images, lists, forms, features of CSS, rules of accessible web pages, usability of web pages, problems of different browsers, one, two and three column pages, page validation, conditional comments, CSS hacks.

Code of the group: 5S K MED 16-17 PV

Name of the group: 5. sem. bak. KOMBI 16-17 povinné p edm ty - výb r (obor MED)

Requirement credits in the group: In this group you have to gain 2 credits

Requirement courses in the group: In this group you have to complete 1 course

Credits in the group: 2 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 |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|-------|----------|------|
| 614TEU | Creation of Scripts and Macros for Economic Tasks | KZ | 2 | 0+2 | Z | Z |
| 614WS2 | Webdesign With Web Standards 2 | KZ | 2 | 0+2 | Z | Z |

Characteristics of the courses of this group of Study Plan: Code=5S K MED 16-17 PV Name=5. sem. bak. KOMBI 16-17 povinné p edm ty výb r (obor MED)

| 614TEU | Creation of Scripts and Macros for Economic Tasks | KZ | 2 |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------|
| Fundamentals of VBA, | functions and procedures, examples of their use. Forms and offers for user oriented applications, cooperation with other app | lications, solution | to compatibility |
| problems among differen | ent spreadsheet programs versions. Everything with the respect to economic tasks. | | |
| 614WS2 | Webdesign With Web Standards 2 | KZ | 2 |
| Advanced CSS techniq | ues. Multi-level menu. SEO - Search Engine Optimization. Web technologies: JavaScript, Flash, PHP, AJAX. AccessKey, Fav | con, rollovers, ligh | ntboxes. Using |
| API for maps or search | ing. Audit and page statistics. Use of useful scripts. Systems for content management. | | |

Code of the group: 5S K MED 16-17 P

Name of the group: 5. sem. bak. KOMBI 16-17 povinné p edm ty (obor MED) Requirement credits in the group: In this group you have to gain 21 credits

Requirement courses in the group: In this group you have to complete 9 courses

Credits in the group: 21 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 |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|-----------|----------|------|
| 617LOS | Logistic Systems | Z,ZK | 3 | 2+1 | Z | Z |
| 617TGA | Graph Theory and its Applications in Transport Alexandra Dvo á ková Denisa Mocková (Gar.) | Z,ZK | 4 | 2P+2C+12B | Z | Z |
| 614DB | Database Systems | KZ | 2 | 0+2 | Z | Z |
| 617DNV | Transportation of Dangerous Goods | KZ | 2 | 2+0 | Z | Z |
| 617FIF | Finances and Financing | KZ | 2 | 2+0 | Z | Z |
| 617MSTP | Small and Medium Enterprise | KZ | 2 | 2+0 | Z | Z |
| 617PDO | Designing of Public Transport Services | KZ | 3 | 2+1 | Z | Z |
| 623KM | Crisis Management | KZ | 2 | 2+0 | Z | Z |
| 617TCHR | Tourist Trade Techniques | Z | 1 | 2+0 | Z | Z |

Characteristics of the courses of this group of Study Plan: Code=5S K MED 16-17 P Name=5. sem. bak. KOMBI 16-17 povinné p edm ty (obor MED)

617LOS Logistic Systems Z,ZK 3

| _ | s, development and science basics of logistics. Basic elements of logistic system, logistic chain. Technology in logistics. Goals | - | |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------|
| | n logistic system. Logistic technologies in air, rail and water transport. Information systems in logistics and passenger transport | :. Storage and distribu | ition in logistics. |
| Position of logistics | in the Czech Republic and Europe. | | |
| 617TGA | Graph Theory and its Applications in Transport | Z,ZK | 4 |
| Basic terms of grap | h theory, paths in graphs, flows in networks, location problems, design problems on graphs, optimum routing, use of graphs in | other scientific discip | olines. |
| 614DB | Database Systems | KZ | 2 |
| Dbf. terminology, fu | ndamentals of relational and object database systems, database structure, relations modelling, relation algebra, dbf. tools, data | abase design process | , user interface, |
| remote data access | s. Basic statement of SQL language. Expert systems and knowledge based applications, knowledge representation, methods or | of derivating and impl | ementating, |
| interface for knowle | dge systems design, certainty and uncertainty in knowledge systems. | | |
| 617DNV | Transportation of Dangerous Goods | KZ | 2 |
| Legal measures. Ki | nds of hazards. Classification. Carriage by road, railways, inland waterways, air and maritime transport. Obligations of consign | ors, carriers, consign | ees and safety |
| advisors. System o | finternational obligatory conditions. Enumerated list of dangerous goods. Packing and marking of packages. Transport docume | entation. Exempted ar | nd unlimited |
| quantity. Crew, equ | pment, approval, marking, operation and construction of road vehicles. | | |
| 617FIF | Finances and Financing | KZ | 2 |
| Cash flow, cost and | revenue flow. Financial system functions. Financial assets. Types of financing. Company cash flow. Short-term financing instrume | ents. Long-term financ | ing instruments |
| Trading financial in: | struments. Banking financial instruments. Financial risk allocation instruments. Payment and hedging instruments. Loan capital | l. Risk capital. | |
| 617MSTP | Small and Medium Enterprise | KZ | 2 |
| SME, design, plan, | market, analysis, finance, management, decision making, survival, growth. | | |
| 617PDO | Designing of Public Transport Services | KZ | 3 |
| Transport planning, | demand elasticity. Strategy and hierarchical planning of public transport system. Line network planning, concept of offer. Integ | rated periodic timetal | ble. Planning |
| process of long-dis | tance and regional transport. Optimised number of rolling-stock, circulation plan of rolling-stock, rolling-stock strategy. Public s | ervice liability for vario | ous segments. |
| Harmony of particu | lar long-term plans. Controlled competition. Case studies. | | |
| 623KM | Crisis Management | KZ | 2 |
| Extraordinary even | ts in transport. Crisis states. Authorities of crisis management of the state. Crisis and emergency planning. Precautions of eco | nomic mobilization of | the state. Use |
| of state material re- | serves. Organization conditions for crisis states treatment. Technical means for elimination of results of extraordinary events. P | rotection and renewal | l of transport |
| infrastucture, ensur | ing of operation. Information systems of crisis management. | | |
| 617TCHR | Tourist Trade Techniques | Z | 1 |
| Development and in | mportance of the tourist trade, summary of tourist trade services with more detailed analysis of transport services and means | of transport in the air, | , water and land |
| (rail and road) trans | sport. | | |
| | | | |

Name of the block: Semestrální projekt Minimal number of credits of the block: 6

The role of the block: ZP

Code of the group: PROJ 15-16

Name of the group: projekty 15-16 (4., 5., 6. sem.)

Requirement credits in the group: In this group you have to gain 6 credits

Requirement courses in the group: In this group you have to complete 3 courses

Credits in the group: 6 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 |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|-------|----------|------|
| 616X31 | Project 1 | Z | 2 | 0P+1C | L | ZP |
| 615X31 | Project 1 | Z | 2 | 0P+1C | L | ZP |

| 612X31 | Project 1 | Z | 2 | 0P+1C | L | ZP |
|--------|-----------|---|---|-------|---|----|
| 622X31 | Project 1 | Z | 2 | 0P+1C | L | ZP |
| 617X31 | Project 1 | Z | 2 | 0P+1C | L | ZP |
| 617X32 | Project 2 | Z | 2 | 0P+2C | Z | ZP |
| 612X32 | Project 2 | Z | 2 | 0P+2C | Z | ZP |
| 622X32 | Project 2 | Z | 2 | 0P+2C | Z | ZP |
| 615X32 | Project 2 | Z | 2 | 0P+2C | Z | ZP |
| 616X32 | Project 2 | Z | 2 | 0P+2C | Z | ZP |
| 615X33 | Project 3 | Z | 2 | 0P+1C | L | ZP |
| 616X33 | Project 3 | Z | 2 | 0P+1C | L | ZP |
| 612X33 | Project 3 | Z | 2 | 0P+1C | L | ZP |
| 617X33 | Project 3 | Z | 2 | 0P+1C | L | ZP |
| 622X33 | Project 3 | Z | 2 | 0P+1C | L | ZP |

Characteristics of the courses of this group of Study Plan: Code=PROJ 15-16 Name=projekty 15-16 (4., 5., 6. sem.)

| 616X31 | Project 1 | Z | 2 |
|--------|-----------|---|---|
| 615X31 | Project 1 | Z | 2 |
| 612X31 | Project 1 | Z | 2 |
| 622X31 | Project 1 | Z | 2 |
| 617X31 | Project 1 | Z | 2 |
| 617X32 | Project 2 | Z | 2 |
| 612X32 | Project 2 | Z | 2 |
| 622X32 | Project 2 | Z | 2 |
| 615X32 | Project 2 | Z | 2 |
| 616X32 | Project 2 | Z | 2 |
| 615X33 | Project 3 | Z | 2 |
| 616X33 | Project 3 | Z | 2 |
| 612X33 | Project 3 | Z | 2 |
| 617X33 | Project 3 | Z | 2 |
| 622X33 | Project 3 | Z | 2 |

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 18

The role of the block: PV

Code of the group: PVP KOMBI 15-16

Name of the group: PVP pro KOMBI (MED) 15-16 (LS+ZS+LS)

Requirement credits in the group: In this group you have to gain 12 credits

Requirement courses in the group: In this group you have to complete 3 courses

Credits in the group: 12 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 |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|-------|----------|------|
| 617W1AF | Alternative Forms of Transportation Project Financing | KZ | 4 | 8 | Z | PV |
| 615W1BO | Work Safety and Health Protection in Transportation Petr Musil | KZ | 4 | 8B | L | PV |
| 617W1EV | Public Sector Economy | KZ | 4 | 8B | Z | PV |
| 621W1FN | Factors Affecting the Rate of Accidents in Aviation | KZ | 4 | 8 | Z | PV |
| 614W1HW | Computer Hardware | KZ | 4 | 8B | L | PV |
| 615W1HD | History of City Mass Transport | KZ | 4 | 8 | Z | PV |
| 615W1HE | Work Hygiene and Ergonomics in Traffic | KZ | 4 | 8B | Z | PV |
| 621W1LR | Radio Technology in Aviation | KZ | 4 | 8 | L | PV |
| 617W1LL | Logistics of Passenger and Freight Air Transportation | KZ | 4 | 8B | L | PV |
| 621W1MZ | Managerial Ethics | KZ | 4 | 8 | Z | PV |
| 617W1ND | Maritime Transportation | KZ | 4 | 8 | Z | PV |

| 621W1OL | Security of Air Transport | KZ | 4 | 8 | L | PV |
|---------|-----------------------------------------------------|----|---|----|---|----|
| 617W1OF | Personal Finance Alexandra Dvo á ková | KZ | 4 | 8B | Z | PV |
| 617W1PM | Personnel Management Stanislava Holíková | KZ | 4 | 8B | L | PV |
| 614W1PJ | C Programming Language | KZ | 4 | 8B | Z | PV |
| 616W1PV | Operation, Construction and Maintenance of Vehicles | KZ | 4 | 8B | L | PV |
| 621W1RZ | Human Resources Management Šárka Václavíková | KZ | 4 | 8B | L | PV |
| 617W1ST | Titan Simulation | KZ | 4 | 8B | L | PV |
| 621W1TH | Aircraft Technical Handling | KZ | 4 | 8B | Z | PV |
| 621W1UT | Airports Maintenance | KZ | 4 | 8 | L | PV |
| 621W1ZA | Basics of Aerobatics | KZ | 4 | 8 | L | PV |

Characteristics of the courses of this group of Study Plan: Code=PVP KOMBI 15-16 Name=PVP pro KOMBI (MED) 15-16 (LS+ZS+LS) Alternative Forms of Transportation Project Financing There will be specifed such forms of financing in transportation, where the public sector body perform the final debtor, i. e. debtor payments come from its budget, but the final debtor is not a direct participant of the transaction and it is not the counterparty of the financial institute which provides the funding. Issue of securities as an alternative source of transportation project Work Safety and Health Protection in Transportation 615W1BO K7 Fundamental legislative, definition of terms, risks and possible health damage, working conditions and health protection with focus on transportation. Health protection programmes, health insurance of home and foreign business trips, statistics, working practice. 617W1FV Public Sector Economy Economic and financial theory of public sector, public choice theory, externalites, decisions about public finance allocation, economic assessment of public projects (CBA, MCA, CEA), tax system of the CR, state budget, management of public projects a their economic efficiency assessment, way of elaboration of PPP projects, funding from EU funds, program HDM-4. Factors Affecting the Rate of Accidents in Aviation Introduction. The scope of international and national organizations in civil aviation. The scope of the investigation organisations within the state and international committees. Analysis and interpretation of ICAO Annexes 13 and 19. Analysis and interpretation of the Regulation (EC), Regulation (EU). Human factor. Utilization of information from the investigation reports. 614W1HW Computer Hardware Computer architecture, basics of logical circuits design and their realization using FPGA. In detail, description of computer architecture and separate parts designing - controllers, arithmetic and logical units, I/O subsystem. History of City Mass Transport 4 615W1HD History of city mass transport in the world, development of tram, bus and trolley-bus systems. History of transport networks in the world, current trends and developments of tariff and clearance systems. History of city transport in Prague and Brno. History of tram, bus and trolley-bus operation systems in the Czech Republic and Slovakia. 615W1HE Work Hygiene and Ergonomics in Traffic 4 ΚZ Basic knowledge of occupational hygiene and ergonomics, and their application in transport. Working environment factors, and the influence of these factors on health of workers. Creation and protection of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to possibilities and skills of man. Practical examples from the field of transportation; relevant legislative. 621W1LR Radio Technology in Aviation ΚZ 4 Electric signals and the wave spectrum. Analog and digital modulations. Noises. Filters. Resonance circuits. Electromagnetic field. Electromagnetic wave propagation. Wave ranges in aviation, radiation and reception of electromagnetic field. Antennas in aviation, receivers and transmitters. Logistics of Passenger and Freight Air Transportation Logistics airline passenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transport process passengers and air cargo. Information systems in air transport. Global distribution systems. 621W1MZ Managerial Ethics K7 4 The basic terminology of managerial ethics. Basics of etiquette and rules of social contact. Social events. Etiquette of working contacts. The art of presentation and negotiation. Personal image. Diplomatic protocol. Managerial ethics. Business ethics. 617W1ND Maritime Transportation History and importance of the maritime transportation, theoretical discipline in maritime transportation, seafaring vessels, maritime ports and their utilization, inland logistic centre and maritime ports, transport corridors and link by maritime, river and rail transport I and II, global maritime corridors, logistics of maritime transportation, maritime transportation and smart containers. ITS in maritime transport. 621W1OL Security of Air Transport 4 ΚZ The development of civil aviation. Definitions and regulations. History of acts of unlawful interference. Terrorism in aviation. National security program. Crisis management. Protection at airports - operational procedures. Modern means of protection and control. 617W1OF Personal Finance Personal finance (budget, financing of basic living needs), debt (loans and credits, payment instruments, interest and fees, debt trap), financing of housing (rent, mortgage, savings, consumer loans, refinancing), savings and investments (investment horizon, return, risk, investment strategy), insurance (insurance types, suitability and adequacy), securing the future (retirement savings and insurance). ΚZ 617W1PM Personnel Management 4 Human sources, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, intercultural communication 614W1PJ C Programming Language ΚZ 4 C programming language. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation, string, files, structures and unions. Implementations of abstract data types (FIFO, LIFO, list), programming techniques (sorting, searching, recursion), using bitwise oprerators. 616W1PV Operation, Construction and Maintenance of Vehicles ΚZ 4 Methods of vehicle production. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measurement. Transmission mechanism

General principles of engine diagnostics.

| 621W1RZ | Human Resources Management | KZ | 4 |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------|
| The position of hum | an resources in the organization and related disciplines file. Substance, importance and challenges of human resources manag | ement. Internal ar | nd external |
| environment of hum | an resource management. Human resource planning. Search, recruitment and selection of employees. Motivation, evaluation and | d remuneration of | staff. Positioning |
| dismissal and redur | dancies of employees. Education of employees. Planning career management. | | |
| 617W1ST | Titan Simulation | KZ | 4 |
| Titan is a managem | ent game simulating the business decisions. Lets 2-8 student groups to produce and compete in the market with the same prod | uct. Students set | a price and |
| determine the quan- | tity and capacity of production, plan budgets for marketing, research and development. They become familiar with the conseque | nces of their decis | sions by the forn |
| of financial corporat | e reports and they use this information for other business decisions. | | |
| 621W1TH | Aircraft Technical Handling | KZ | 4 |
| Aircraft towing and | oushing tractors. GPU. Air conditioning and heating units. Aircraft fuel equipment. De-acing and anti-icing units. Loading and unlo | oading units. Equi | oment for |
| passangers onboard | ding and offboarding. Operational processes of aircraft technical handling and regulations. Modernization and technical progress | S. | |
| 621W1UT | Airports Maintenance | KZ | 4 |
| Summer airport mai | ntenance. Summer maintenance equipment. Winter airport maintenance. Winter maintenance equipment. De-icing / anti-icing of | aircraft. De-icing | anti-icing liquid |
| Operating procedure | es, limitations, practices. | | |
| 621W1ZA | Basics of Aerobatics | KZ | 4 |
| The history, develop | ment and aerobatics in present, aerodynamics and mechanics of flight during marginal flight modes, piloting technique of individua | l elements, compe | tition aerobatics |
| aerobatics programs | s, preparation for practicing aerobatics and safety training, competitive psychology and concentration on performance. | | |

Code of the group: PVP PRE 15-16

Name of the group: 3x PVP pro bak. PREZ od 15-16: DOS, MED (LS 15-16 +ZS+LS 16-17)

Requirement credits in the group: In this group you have to gain 6 credits

Requirement courses in the group: In this group you have to complete 3 courses

Credits in the group: 6
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 |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|-------|----------|------|
| 617Y1AF | Alternative Forms of Transportation Project Financing | KZ | 2 | 2+0 | Z | PV |
| 618Y1AM | Anatomy, Mobility and Safety of Man | KZ | 2 | 2P+0C | Z | PV |
| 614Y1AV | Animation and Visualization | KZ | 2 | 2P+0C | L | PV |
| 620Y1AE | Applied Electronics | KZ | 2 | 2P+0C | Z | PV |
| 614Y1BE | Barrierless Transport | KZ | 2 | 2P+0C | L | PV |
| 615Y1BO | Work Safety and Health Protection in Transportation | KZ | 2 | 2P+0C | L | PV |
| 614Y1BM | Biometric Methods | KZ | 2 | 2P+0C | Z | PV |
| 623Y1DZ | Data and Their Processing for Engineering Fields Needs | KZ | 2 | 2P+0C | Z | PV |
| 615Y1DU | History of Art and Society | KZ | 2 | 2+0 | Z | PV |
| 615Y1DZ | History of Railway | KZ | 2 | 2P+0C | L | PV |
| 612Y1DS | Project Documentation in Practice | KZ | 2 | 2P+0C | Z | PV |
| 618Y1D1 | Dynamics of Routes and Vehicles 1 | KZ | 2 | 2+0 | Z | PV |
| 617Y1EV | Public Sector Economy | KZ | 2 | 2P+0C | Z | PV |
| 620Y1EK | Qualification in Electrical Engineering | KZ | 2 | 2P+0C | L | PV |
| 616Y1EN | Energy Requirements of Vehicles | KZ | 2 | 2P+0C | L | PV |
| 620Y1EA | Environmental Aspects of Transport | KZ | 2 | 2P+0C | Z | PV |
| 615Y1EH | European Integration within Historical Context | KZ | 2 | 2P+0C | Z | PV |
| 618Y1EM | Experimental Methods in Mechanics | KZ | 2 | 2P+0C | Z | PV |
| 621Y1FN | Factors Affecting the Rate of Accidents in Aviation | KZ | 2 | 2+0 | Z | PV |
| 615Y1FD | French Area Studies and Transportation | KZ | 2 | 2P+0C | L | PV |
| 614Y1HW | Computer Hardware | KZ | 2 | 2P+0C | L | PV |
| 615Y1HL | History of Civil Aviation | KZ | 2 | 2P+0C | Z | PV |
| 615Y1HD | History of City Mass Transport | KZ | 2 | 2P+0C | Z | PV |
| 612Y1HD | Traffic Noise | KZ | 2 | 2P+0C | L | PV |
| 615Y1HE | Work Hygiene and Ergonomics in Traffic Petr Musil | KZ | 2 | 2P+0C | Z | PV |
| 616Y1IS | Interactive simulators and simulations Libor Žídek, Ond ej Piksa, Martin Scháno, Ji í Zeisek, Ond ej Smíšek | KZ | 2 | 2P+0C | L | PV |
| 612Y1KN | Combined Transportation | KZ | 2 | 2P+0C | Z | PV |
| 623Y1KO | Quantum Physics and Optoelectronics | KZ | 2 | 2P+0C | L | PV |
| 621Y1LR | Radio Technology in Aviation | KZ | 2 | 2+0 | L | PV |

| 617Y1LL | Logistics of Passenger and Freight Air Transport | KZ | 2 | 2P+0C | L | PV |
|---------|------------------------------------------------------|----|---|-------|---|----|
| 620Y1LN | Location and Navigation | KZ | 2 | 2P+0C | L | PV |
| 621Y1MZ | Managerial Ethics | KZ | 2 | 2+0 | Z | PV |
| 611Y1MM | Mathematical Models in Economy | KZ | 2 | 2P+0C | Z | PV |
| 618Y1MT | Engineering Materials | KZ | 2 | 2P+0C | L | PV |
| 614Y1MP | Modeling Complex Assemblies and Models in Parametric | KZ | 2 | 2P+0C | Z | PV |
| 617Y1ND | Modeller Maritime Transportation | KZ | 2 | 2+0 | Z | PV |
| 615Y1NE | German in the Economy and Society | KZ | 2 | 2P+0C | Z | PV |
| 621Y1OL | Security of Air Transport | KZ | 2 | 2+0 | L | PV |
| 623Y1OK | Protection of Critical Objects and Infrastructures | KZ | 2 | 2P+0C | L | PV |
| 620Y1OI | Fare Collection and Information Systems | KZ | 2 | 2P+0C | L | PV |
| 614Y1OP | Operating System | KZ | 2 | 2P+0C | Z | PV |
| | Personal Finance | | | | | |
| 617Y1OF | Alexandra Dvo á ková | KZ | 2 | 2P+0C | Z | PV |
| 611Y1PV | Parametrical and Multicriterial Programming | KZ | 2 | 2P+0C | Z | PV |
| 617Y1PM | Personnel Management Stanislava Holíková | KZ | 2 | 2P+0C | L | PV |
| 612Y1PC | Pedestrian and Cycling Transport | KZ | 2 | 2P+0C | L | PV |
| 614Y1PG | Computer Graphics | KZ | 2 | 2P+0C | L | PV |
| 614Y1P2 | Computer Aid of Transportation Projecting 2 | KZ | 2 | 2P+0C | Z | PV |
| 618Y1PS | Computer Simulations in Mechanics | KZ | 2 | 2P+0C | L | PV |
| 614Y1PI | Corporate Information System | KZ | 2 | 2P+0C | Z | PV |
| 612Y1PD | Assessment of Transport | KZ | 2 | 2P+0C | Z | PV |
| 620Y1PK | Product Quality Management Processes | KZ | 2 | 2P+0C | Z | PV |
| 614Y1PJ | C Programming Language | KZ | 2 | 2P+0C | Z | PV |
| 612Y1C1 | Designing Roads in Civil 3D I | KZ | 2 | 2P+0C | L | PV |
| 612Y1C2 | Designing Roads in Civil 3D II | KZ | 2 | 2P+0C | Z | PV |
| 614Y1PA | 3D Modeling in AutoCAD | KZ | 2 | 2P+0C | Z | PV |
| 616Y1PV | Operation, Construction and Maintenance of Vehicles | KZ | 2 | 2P+0C | L | PV |
| 612Y1PU | Organization Disposition of Railway Stations | KZ | 2 | 2P+0C | L | PV |
| 616Y1RE | Control and Electronic Vehicle Systems | KZ | 2 | 2P+0C | Z | PV |
| 621Y1RZ | Human Resources Management | KZ | 2 | 2P+0C | L | PV |
| 617Y1ST | Titan Simulation | KZ | 2 | 2P+0C | L | PV |
| 620Y1SC | Sensors and Actuators | KZ | 2 | 2P+0C | L | PV |
| 611Y1SI | Transportation Software Engineering | KZ | 2 | 2P+0C | Z | PV |
| 622Y1SZ | Forensic Expertise | KZ | 2 | 2+0 | L | PV |
| 616Y1KS | Quality and Reliability of Vehicles | KZ | 2 | 2P+0C | Z | PV |
| 612Y1SU | Management and Maintenance of Roads | KZ | 2 | 2P+0C | L | PV |
| 621Y1TH | Aircraft Technical Handling | KZ | 2 | 2P+0C | Z | PV |
| 611Y1TG | Graph Theory | KZ | 2 | 2P+0C | L | PV |
| 614Y1TI | Creating Interactive Internet Applications | KZ | 2 | 2P+0C | L | PV |
| 621Y1UT | Airports Maintenance | KZ | 2 | 2+0 | L | PV |
| 618Y1UK | Introduction of Rail Vehicles | KZ | 2 | 2P+0C | L | PV |
| 612Y1VC | Waterways and Shipping | KZ | 2 | 2P+0C | Z | PV |
| 623Y1VS | Negotiation and Cooperation | KZ | 2 | 2P+0C | Z | PV |
| 614Y1VM | Development of Applications for Mobile Devices | KZ | 2 | 2P+0C | Z | PV |
| 616Y1VT | Development in Railroad Vehicles | KZ | 2 | 2P+0C | L | PV |
| 614Y1W1 | Webdesign 1 | KZ | 2 | 2P+0C | Z | PV |
| 614Y1W2 | Webdesign 2 | KZ | 2 | 2P+0C | L | PV |
| 616Y1ZG | Introduction into Applied Computer Graphics | KZ | 2 | 2P+0C | L | PV |
| 621Y1ZA | Basics of Aerobatics | KZ | 2 | 2+0 | L | PV |
| 614Y1ZM | Fundamentals of parametric and adaptive modeling | KZ | 2 | 2P+0C | L | PV |
| 611Y1ZM | Foundation of MATLAB Programming Šárka Vorá ová | KZ | 2 | 2P+0C | L | PV |

| | Principles of Urbanism | KZ | 2 | 2P+0C | Z | PV |
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| 616Y1ZL | Vehicle Testing, Legislation and Construction | KZ | 2 | 2P+0C | Z | PV |
| | e courses of this group of Study Plan: Code=PVP PRE 15-16 Na | me=3x PVP | pro bak | . PREZ od 1 | 15-16: DC | OS, MED |
| (LS 15-16 +ZS+LS 16 617Y1AF A | -1/) ternative Forms of Transportation Project Financing | | | К | 7 | 2 |
| | forms of financing in transportation, where the public sector body perform the final debt | or, i. e. debtor pa | yments co | I | | |
| | he transaction and it is not the counterparty of the financial institute which provides the fu | | | | | |
| | natomy, Mobility and Safety of Man | | | K | | 2 |
| | al structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical st ılar-skeletal system. Injury of human organs and musculo-skeletal system during traffic a | | | | - | |
| | means and traffic safety regulations. | accidente. Mobili | ty or in ario | injurou man ai | ia ilio troati | ione i idinari |
| | nimation and Visualization | | | K | | 2 |
| | I modeling of NURBS, Patch objects, selection of objects (according to filter and propertie filters, Motion blur, advanced animations, Motion panel. Modeling for morphing and anir | | - | • | | - |
| | plied Electronics | nation, bone ion | nation, an | K | | 2 |
| | ctor components, their principles, characteristics and typical connection diagrams. Semi | conductor PN jui | nction dioc | 1 | | _ |
| | . Functions of basic electronic circuits and methods for their designs (rectifiers, voltage r | egulator with Ze | ner diode, | transistor as ar | n amplifier, o | perational |
| amplifier as an inverting and 614Y1BE | arrierless Transport | | | K | 7 | 2 |
| | essible public transportation in terms of architectural barriers and also for transportation-t | echnological poi | nt of view. | | | |
| | pads, railway stations, public transport stops, terminal buildings, vehicles, public transport, | information and | orientation | systems and tr | ansportatio | n technology. |
| | be supplemented by practical examples. | | | 1/ | 7 | |
| | ork Safety and Health Protection in Transportation finition of terms, risks and possible health damage, working conditions and health protec | ction with focus o | on transpo | tation. Health p | 1 | 2 ogrammes. |
| • | nd foreign business trips, statistics, working practice. | | | | | - 9 |
| The state of the s | ometric Methods | | | K | 1 | 2 |
| | entication methods, principles and performance measurement of biometric systems, ove D and 3D face recognition, vein patterns on the wrist, ear biometrics, fingerprint recogn | | | - | - | - |
| | fety and risks of biometric technologies. | ilion, skin specii | озсору, ве | navioral metrio | us, the use | or biometrics |
| 623Y1DZ Da | ata and Their Processing for Engineering Fields Needs | | | K | Z | 2 |
| | , data collection, data sets, data random uncertainty and data epistemic uncertainty, da | - | azard, risk | value scales, a | analytical, e | mpirical and |
| | etermination and risk determination, methods for variants´ creation, decision support sy story of Art and Society | stems. | | K | 7 | 2 |
| | erminology, division into periods. Architecture, fine arts, design. Situation in Central Euro | pe, today in the | Czech Re | 1 | | _ |
| buildings. Design of transpo | | | | | | |
| | story of Railway | | | K | | 2 |
| · · · · · · · · · · · · · · · · · · · | n railways, railway network development in the 2nd half of 19th century, regional railway lopment in the 2nd half of 20th century, high-speed railway origins, railway lines closing, ir | | | | | |
| • • • | nctions. Excursions and projections. | portaint long aid | , , , , , , , , , , , , , , , , , , , | | aayoo | oonon donon, |
| 612Y1DS Pi | oject Documentation in Practice | | | K | Z | 2 |
| Project documentation crea creation of some project do | ting. Project documentation types. Support materials for project documentation creating. | Building permit | obtaining | process. Budge | t and pricing | g. Practical |
| | vnamics of Routes and Vehicles 1 | | | K | 7 | 2 |
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| | ation of multimass systems. Dynamical model of vehicle and interaction with transport st | lucture. Assessi | | | and allowal | ole criteria. |
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| 615Y1FD | French Area Studies and Transportation | KZ | 2 |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------|
| | regions, transport infrastructure. Paris and its sights, city public transport. Road traffic, motorways, railway traffic, TGV, air tra | • | erminology. |
| 614Y1HW | re. Current political system. System of education, studying in France. Selected authors of French literature. French gastronor Computer Hardware | KZ | 2 |
| - | pasics of logical circuits design and their realization using FPGA. In detail, description of computer architecture and separate | | |
| arithmetic and logical un | | 1 3 | , |
| 615Y1HL | History of Civil Aviation | KZ | 2 |
| | relopment of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of | | - |
| • | aviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era o | of aviation. Golder | n era of civil |
| | civil aviation. Airline companies. Supersonic flying. History of City Mass Transport | KZ | 2 |
| I | sport in the world, development of tram, bus and trolley-bus systems. History of transport networks in the world, current trend | l l | |
| | ory of city transport in Prague and Brno. History of tram, bus and trolley-bus operation systems in the Czech Republic and Sl | • | |
| 612Y1HD | Traffic Noise | KZ | 2 |
| | asic terms, quantities. Basics of physiological acoustic, noise impacts on human body. Acoustic legislation, standarts, regulati | | |
| | acoustic, noise transmission, soundproofing. Types of noise sources in area. Determination of acoustic situation in the area ement of transport noise. Acoustic studies, measuring protocol. | of interest. Metho | dology of |
| 615Y1HE | Work Hygiene and Ergonomics in Traffic | KZ | 2 |
| 1 | upational hygiene and ergonomics, and their application in transport. Working environment factors, and the influence of these | | |
| | of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to | | |
| · · · | the field of transportation; relevant legislative. | | |
| 616Y1IS | Interactive simulators and simulations | KZ | 2 |
| | pplication of computing equipment. Creating computing models. Mechanical and dynamic systems and their mathematical menamics, on-land carriage in particular. Virtual reality systems. Practical exercise with simulation software and interactive simul | | methods. |
| 612Y1KN | Combined Transportation | KZ | 2 |
| | itegy and legislation. Load units. Means of transport in combined transport. Combined transport systems. Transshipping areas | | |
| 623Y1KO | Quantum Physics and Optoelectronics | KZ | 2 |
| Ground of quantum phys | sics. Application of quantum physics in practice. Optoelectronics. Production of optoelectronics components. | · | |
| 621Y1LR | Radio Technology in Aviation | KZ | 2 |
| - | wave spectrum. Analog and digital modulations. Noises. Filters. Resonance circuits. Electromagnetic field. Electromagnetic w | ave propagation. | Wave ranges |
| 617Y1LL | d reception of electromagnetic field. Antennas in aviation, receivers and transmitters. Logistics of Passenger and Freight Air Transport | KZ | 2 |
| | ger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial tr | | |
| - | stems in air transport. Global distribution systems. | | · · · |
| 620Y1LN | Location and Navigation | KZ | 2 |
| | es of road networks, localization on the network. Routing algorithms, their properties and implementation. Description and ex | amples of datase | ts for finding |
| 1 | outing algorithms, their properties and implementation. | 1/7 | |
| 621Y1MZ | Managerial Ethics f managerial ethics. Basics of etiquette and rules of social contact. Social events. Etiquette of working contacts. The art of prese | KZ | 2 |
| | col. Managerial ethics. Business ethics. | ination and nego | dation: 1 croonar |
| 611Y1MM | Mathematical Models in Economy | KZ | 2 |
| The goal of the course is | s to teach selected methods of linear programming, with theoretical procedures applicable for individual tasks and their progr | am implementation | on. The outcom |
| 1 | ty to implement and solve basic tasks from the queue theory, graph theory and both free and constrained optimization. | | |
| 618Y1MT | Engineering Materials | KZ | 2 |
| - | main classes of materials used in technical design. In addition to main classes of materials, i. e. metals, ceramics, polymers a nd to biomimetics. Integral approach to material selection process is also demonstrated based on so called Ashby's selection | - | illerition is paid |
| 614Y1MP | Modeling Complex Assemblies and Models in Parametric Modeller | KZ | 2 |
| 1 | g - tools and methodology of working subassemblies and assemblies, sheet metal parts modelling, welded assemblies, pipel | | |
| · · | dering - physical and material properties, lighting sources. MKP - visual example. | | |
| 617Y1ND | Maritime Transportation | KZ | 2 |
| | of the maritime transportation, theoretical discipline in maritime transportation, seafaring vessels, maritime ports and their uti t corridors and link by maritime, river and rail transport I and II, global maritime corridors, logistics of maritime transportation, r | | · |
| containers, ITS in mariti | | nantime transport | lation and smart |
| 615Y1NE | German in the Economy and Society | KZ | 2 |
| | ocial issues of German speaking countries and of the EU. Reading and listening of texts. Lexical, grammatical and semantic | analysis of texts. İ | Discussion on |
| selected topics. | | | _ |
| 621Y1OL | Security of Air Transport | KZ | 2 |
| · · · · · · · · · · · · · · · · · · · | l aviation. Definitions and regulations. History of acts of unlawful interference. Terrorism in aviation. National security program procedures. Modern means of protection and control. | . Crisis managem | ient. Protection |
| 623Y1OK | Protection of Critical Objects and Infrastructures | KZ | 2 |
| 1 | ystems, critical item, risks and their courses, criticality, vulnerability, connectivity, dependability, resilience, failure, protection, s | | |
| infrastructures. | | | |
| 620Y1OI | Fare Collection and Information Systems | KZ | 2 |
| = | in public transport and their components (on-board units, validators, turnstiles,). Information systems and their component | - | ables, maps, |
| 614Y1OP | s (cycles, location or current delay of vehicles,). The issue of tariff systems. Other examples of clearance systems (parking) | KZ | 2 |
| | Operating System GNU/Linux OS. X-window system. Rights management - users and groups, ACL rights. Filesystems and attributes. Program | | |
| | programs / commands. Config files. SW management, package systems. Programs in graphic shell - text, spreadsheet, grap | | |

 $communication. \ Services\ management.\ Safe\ and\ secure\ configuration\ of\ OS.\ Remote\ administration.$

| 617Y1OF | Personal Finance | KZ | 2 |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------|
| | et, financing of basic living needs), debt (loans and credits, payment instruments, interest and fees, debt trap), financing of he | | |
| · - | cing), savings and investments (investment horizon, return, risk, investment strategy), insurance (insurance types, suitability a | | |
| (retirement savings and | insurance). | | |
| 611Y1PV | Parametrical and Multicriterial Programming | KZ | 2 |
| | of linear programming with a parameter in objective function, on right sides and in the matrix of coeficients of linear constraints | | |
| 617Y1PM | Personnel Management roup, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, intercul | KZ | 2 |
| 612Y1PC | Pedestrian and Cycling Transport | KZ | 2 |
| | Pedestrian crossings. Modifications for blind, dim-sighted and disabled people. Design of cycle routes network. Ways of cycle ro | | l l |
| • | of cyclists from other transport modes. Cycle tracks and its design - one way streets, reserved traffic lanes, bus stops, crossing | - | |
| | and road marking for cyclists. | | |
| 614Y1PG | Computer Graphics | KZ | 2 |
| | c and possibilities of their editing and mutual conversion. Use of individual types according to character of work. Work with ed s, DPI, colors. Basics of digital photography, scanning and computer technology like monitors and graphics cards. | liting programs (w | ithin the user |
| 614Y1P2 | Computer Aid of Transportation Projecting 2 | KZ | 2 |
| | ation for transportation projecting aid. AutoCAD environment possibilities of basic tasks automatizing (programming, scripting, | | |
| | relation to databases). Work in projecting group, external references. Basic tasks for cummunication projecting (clotoidic trans | | |
| section). Basics of 3D m | | | |
| 618Y1PS | Computer Simulations in Mechanics | KZ | 2 |
| • | of programs for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model dev | = | • |
| - | NE systems. Assignment of material properties. The types of elements and their use. Discretization of solid model. Boundary octural and modal analysis. Introduction to complex nonlinear problems. | conditions and ap | plication of the |
| 614Y1PI | Corporate Information System | KZ | 2 |
| - | edge, components of information system, syntatic and semantic sense of data, structure of corporate information system, pa | | |
| | n, storage, etc.), corporate information politic and information control, risks of information system operation, legal environment | nt of information sy | stem operation, |
| | n, information system security, data protection, safety politics. | | |
| 612Y1PD | Assessment of Transport | KZ | 2 |
| • | t structures, the EIA process. Multicriteria assessment methods, risk analysis, SWOT analysis. Landscape character, possibilitic the landscape. Rating fragmentation and landscape connectivity in the preparation of linear structures. Practical examples of | | |
| the environment. | and an acceptant taking magnior hallow and taking controlling in the proparation of income challed in acceptance of | | ano sunumgo on |
| 620Y1PK | Product Quality Management Processes | KZ | 2 |
| | ganization management. Management systems and international standards; quality management systems. Quality products, | | |
| | management, management principles. Principles of process management, monitoring and measurement systems management | nt. Uniform framew | ork of standards |
| | nt. Process management principles. Metrology and testing. Product certification. | V7 | |
| 614Y1PJ C programming language | C Programming Language e. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation, | KZ String. files. struct | 2 ures and unions. |
| | tract data types (FIFO, LIFO, list), programming techniques (sorting, searching, recursion), using bitwise oprerators. | g,, | |
| 612Y1C1 | Designing Roads in Civil 3D I | KZ | 2 |
| | to the traffic buildings design field, specifically the design of roads as such, by the means of a 3D software. Students go through | • | • |
| | , from the initial situation, over the longitudinal section, to the model and work sections and the cubic capacity calculation. The building design in the real-life profession. | ne course also inc | ludes a basic |
| 612Y1C2 | Designing Roads in Civil 3D II | KZ | 2 |
| | o the traffic buildings design field, specifically the design of roads as such, by the means of a 3D software. Students go throu | | |
| | , from the initial situation, over the longitudinal section, to the model and work sections and the cubic capacity calculation. The | - | - |
| improved and developed | d. Students learn to design intersections. | | |
| 614Y1PA | 3D Modeling in AutoCAD | KZ | 2 |
| · · · · · · · · · · · · · · · · · · · | stric modeller (AutoCAD) environment, scenes rendering, creation of planar and volumetric objects, user setup creation, obje | ct data creation, v | vork with data |
| 616Y1PV | database. Basic definition of work with lights, materials and reflexes. Models presentation. Operation, Construction and Maintenance of Vehicles | KZ | 2 |
| | luction. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measure | | |
| General principles of en | | | |
| 612Y1PU | Organization Disposition of Railway Stations | KZ | 2 |
| - | senger transport equipment. Freight transport equipment. Branch lines and railway traffic inside industrial company areas. Zo | | ation yards. |
| | ology of work in railway station with regard to its disposition. Railway station documentations in the Czech Republic railway r | | |
| 616Y1RE | Control and Electronic Vehicle Systems regulation. Tools for analytical solution, linear system description. Basic types of a regulator (PID), properties, advantages, disa | KZ | 2 on Conventional |
| | . Electric drive. Vehicle communication bus (CAN, LIN, FlexRay, ISObus, KWP2000 protocole etc.). Vehicle electronic control, | _ | |
| comfort systems. | | | |
| 621Y1RZ | Human Resources Management | KZ | 2 |
| | esources in the organization and related disciplines file. Substance, importance and challenges of human resources manage | | |
| | esource management. Human resource planning. Search, recruitment and selection of employees. Motivation, evaluation and | remuneration of s | staff. Positioning, |
| 617Y1ST | cies of employees. Education of employees. Planning career management. Titan Simulation | KZ | 2 |
| | game simulating the business decisions. Lets 2-8 student groups to produce and compete in the market with the same produ | | |
| _ | and capacity of production, plan budgets for marketing, research and development. They become familiar with the consequer | | * |
| - | ports and they use this information for other business decisions. | , | |
| 620Y1SC | Sensors and Actuators | KZ | 2 |
| • | d actuators. Basics of measuring theory and actuating influence. The respective technologies and construction principles. Sensor nidity), chemical and particle flow values. Electrical, pneumatic and hydraulic actuators and solid phase elements. | rs ot mechanical, e | electro-magnetic, |
| 611Y1SI | Transportation Software Engineering | KZ | 2 |
| | are engineering, ranging from domain analysis, requirement analysis and software architectures to analyses, design and imple | | |
| and practical usuage. | | | |
| | | | |

| 622Y1SZ Forensic Expertise | KZ | 2 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------|
| Historical evolution of forensic engineering, forensic activity, current legislature in the Czech Republic, different disciplines, notion of forensic, forensic | : legislation, basic | forensic acts, |
| expert role in the obtaining proofs, forensic methodology. Notion of the evidence, general principles of evidence obtaining, metrology, protocol, evidence | ices collection, sit | te inspection, |
| forensic report, elements. Finding, expert testimony / report. | | |
| 616Y1KS Quality and Reliability of Vehicles | KZ | 2 |
| Quality and reliability theory in design, development, production and operation of vehicles. Definition and possible approach to quality and reliability. | | |
| Mode and Effects Analysis), QFD (Quality Function Deployment), DFx (Design for Assamly, Manufacturying, Quality, Services) and other methods | used in industrial | applications. |
| Knowledge-based systems of quality and reliability, data collection. | 1/7 | |
| 612Y1SU Management and Maintenance of Roads Getting familiar with ownership of roads in the Czech Republic and the administration of the road at the state and county level. It is presented develop | KZ | 2 |
| medium and long-term strategy of the Ministry of Transport. Maintenance of roads winter and summer, its requirements, specifics, possibilities and rej | | |
| classroom as well as investment activity in highway engineering. | | |
| 621Y1TH Aircraft Technical Handling | KZ | 2 |
| Aircraft towing and pushing tractors. GPU. Air conditioning and heating units. Aircraft fuel equipment. De-acing and anti-icing units. Loading and unloa | 1 | |
| passangers onboarding and offboarding. Operational processes of aircraft technical handling and regulations. Modernization and technical progress. | | |
| 611Y1TG Graph Theory | KZ | 2 |
| Basic concepts and terminology of graph theory, graph representation. Problems of graph theory, problem instance. Graph search algorithms, trees, | - | - |
| path problem, Eulerian path, bipartite graph matching, flow networks, circulations, critical path method, traveling salesman problem. Problem of existence | e and optimization | n and algorithms |
| for their solving. Computational complexity,dealing with NP-complete problems, heuris | | |
| 614Y1TI Creating Interactive Internet Applications | KZ | 2 |
| Possibilities of scripting language PHP. Overview of PHP language syntax, and functions. Analysis of finished scripts and demonstration of solutions. | our own application | on programmed |
| in PHP language. | 1/7 | |
| 621Y1UT Airports Maintenance | KZ | 2 |
| Summer airport maintenance. Summer maintenance equipment. Winter airport maintenance. Winter maintenance equipment. De-icing / anti-icing of a Operating procedures, limitations, practices. | iliciali. De-icing / | anti-iding liquid. |
| 618Y1UK Introduction of Rail Vehicles | KZ | 2 |
| Basic characteristics and parameters rail transport systems - railway and urban transport. Basis driving mechanics rail vehicles - equation of motion | 1 | |
| track resistance. Total running resistance. Acceleration force. Analyzing driving cycle rail vehicle. Speed-power diagrams and characteristics rail vehicle | | - 1 |
| and electric drive. Design concept rail vehicles and drive of wheel set. | • | |
| 612Y1VC Waterways and Shipping | KZ | 2 |
| Basic modes of transport. The position of water transport in the transport system of the Czech Republic and the EU. Advantages and disadvantages | of water transport | . Basic systems |
| of waterways in Europe, a network of waterways in the Czech Republic. Construction of the waterway and its equipment. Management of waterways a | nd its operation. T | he legal regime |
| in inland navigation, navigation rules of operation, navigation maps. | | |
| 623Y1VS Negotiation and Cooperation | KZ | 2 |
| Code of conduct for negotiation. The influence of personality traits on the negotiations. Negotiation and commanding. Teamwork. Variants teams. Info | | |
| Principles of negotiation, the essence of negotiation, the differences in negotiation in business and in crisis situations, the principle of "win both", spectrust. | and bid | ding, the role of |
| 614Y1VM Development of Applications for Mobile Devices | KZ | 2 |
| Object oriented programming, Java programming language, development environment, operating system Android, development application - widgets | 1 | |
| permissions, services, GUI. | , 00.110.110.0, 11.100 | 200, |
| 616Y1VT Development in Railroad Vehicles | KZ | 2 |
| Railroad vehicles traction. Railroad vehicle parametres regulation. Control and driving of railroad vehicles. Importance in heavy duty and personal tra | | |
| assesment. New materials in design. International standardization. | | |
| 614Y1W1 Webdesign 1 | KZ | 2 |
| Students will learn the basics of communication HTTP, URL and addressing, markup languages HTML and XHTML, HTML tags, rules of web accessit | ility and usability, | CSS properties |
| and selectors, the issue of web browsers, creating one to three column layout pages, sites validation, conditional comments. Topics will be practiced | on practical exam | |
| 614Y1W2 Webdesign 2 | KZ | 2 |
| Students will learn advanced techniques CSS, responsive webdesign, CSS frontends, content management systems, JavaScript, jQuery, SEO, web | server installation | + configuration |
| directives. Topics will be practiced on practical examples. | | |
| 616Y1ZG Introduction into Applied Computer Graphics | KZ | 2 |
| Computer graphics, division and applications with emphasis on transport, including development and research. Colours, colour perception, colour sc and 3D generation, elementary algorithms for graphic data workout. Visualisation principles and tasks, technics, graphics and visualisation HW basic | - | |
| graphics software. | s. Introduction to | 2D and 3D |
| 621Y1ZA Basics of Aerobatics | KZ | 2 |
| The history, development and aerobatics in present, aerodynamics and mechanics of flight during marginal flight modes, piloting technique of individual | | I |
| aerobatics programs, preparation for practicing aerobatics and safety training, competitive psychology and concentration on performance. | , 20 | |
| 614Y1ZM Fundamentals of parametric and adaptive modeling | KZ | 2 |
| Basics of work at products and parts creation. Sketch drawing by help of geometric relations, parametric dimensions, creation of adaptive models from | | |
| from and to another systems. Fundamentals of assemblies creation. | | |
| 611Y1ZM Foundation of MATLAB Programming | KZ | 2 |
| To explain the principle of algorithmization, flow charts, description of MATLAB environment and its settings, MATLAB help, mathematical operators, n | atrices and eleme | ents operations, |
| control flow, inputs and outputs, graphics, optimization and program code debugging. | | |
| 612Y1ZU Principles of Urbanism | KZ | 2 |
| Survey on history of city and settlement building. Functional components and their mutual relations (working, living, recreation, transportation). Spaci | al arrangement of | settlements. |
| Types of towns or cities with a certain prevailing function, forms of their development. Brief overview of land-use planning. | | |

Name of the block: Jazyky

616Y1ZL

Minimal number of credits of the block: 12

Vehicle Testing, Legislation and Construction

Vehicle costruction, aggregate computing, driving resistance, building and parameters of traction, constructional arrangement of personal cars, trucks, buses, motorbikes, legislation in the EU and in the world, creation of technical legislation, testing methods, vehicle tests, accelerated tests, mathematical modelling in testing.

ΚZ

2

Code of the group: JAZ 1 PRE (3.-4.SEM)

Name of the group: Jazyky bak. PRE pro 3. a 4. sem. (1.cizí jazyk)

Requirement credits in the group: In this group you have to gain 6 credits

Requirement courses in the group: In this group you have to complete 2 courses

Credits in the group: 6 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 |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|-----------|----------|------|
| 615JZ1A | Foreign Language - English 1 V ra Pastorková | Z | 3 | 0P+4C+10B | Z | J |
| 615JZ2A | Foreign Language - English 2 V ra Pastorková | Z,ZK | 3 | 0P+4C+10B | L | J |
| 615JZ1N | Foreign Language - German 1 | Z | 3 | 0+4 | Z | J |
| 615JZ2N | Foreign Language - German 2 | Z,ZK | 3 | 0+4 | L | J |
| 615JZ1R | Foreign Language - Russian 1 | Z | 3 | 10 | Z | J |
| 615JZ2R | Foreign Language - Russian 2 | Z,ZK | 3 | 0+4 | L | J |

Characteristics of the courses of this group of Study Plan: Code=JAZ 1 PRE (3.-4.SEM) Name=Jazyky bak. PRE pro 3. a 4. sem. (1.cizí jazyk)

615JZ1A Foreign Language - English 1 Z 3
Grammatical structures and style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and communicative skills. Elementary stylistics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles of rhetoric.

615JZ2A Foreign Language - English 2

Z,ZK 3

Grammatical structures and style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and communicative skills. Elementary stylistics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles of rhetoric.

615JZ1N Foreign Language - German 1

Z

3 Focus on

Grammar structure and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Faculty's fields of study. Focus on improvement in perceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral and written forms. Technical texts and their features; practice of oral and written presentation.

615JZ2N Foreign Language - German 2

Z,ZK

Grammar structure and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Faculty's fields of study. Focus on improvement in perceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral and written forms. Technical

texts and their features; practice of oral and written presentation.

615JZ1R Foreign Language - Russian 1

Grammar structure and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Faculty's fields of study. Focus on improvement in perceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral and written forms. Technical texts and their features; practice of oral and written presentation.

615JZ2R Foreign Language - Russian 2

Z,ZK

Grammar structure and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Faculty's fields of study. Focus on improvement in perceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral and written forms. Technical texts and their features; practice of oral and written presentation.

Code of the group: JAZ 2 K (5.-6.SEM)

Name of the group: Jazyky KOMBI pro 5. a 6. sem. (2.cizí jazyk)

Requirement credits in the group: In this group you have to gain 6 credits

Requirement courses in the group: In this group you have to complete 2 courses

Credits in the group: 6 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 |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|-----------|----------|------|
| 615JZ3A | Foreign Language - English 3 | Z | 3 | 0P+4C | Z | J |
| 615JZ4A | Foreign Language - English 4 | Z,ZK | 3 | 0+4 | L | J |
| 615JZ3N | Foreign Language - German 3 René Skalický | Z | 3 | 0P+4C+10B | Z | J |
| 615JZ4N | Foreign Language - German 4 René Skalický, Sv tlana Petrová, Eva Rezlerová | Z,ZK | 3 | 0P+4C+10B | L | J |
| 615JZ3R | Foreign Language - Russian 3 Vilma Gottwaldová | Z | 3 | 0P+4C+10B | Z | J |

| 615JZ4R | | Foreign Language - Russian 4 Vilma Gottwaldová | Z,ZK | 3 | 0P+4C+10B | L | J |
|--------------------------|----------|------------------------------------------------------------------------------------------|--------------------|---------------|----------------|--------------|------------------|
| Characteristics o | f the | courses of this group of Study Plan: Code=JAZ 2 K (56.SEM) | Name=Jazyk | y KOMBI | pro 5. a | 6. sem. (| 2.cizí jazyk) |
| 615JZ3A | For | eign Language - English 3 | | | | Z | 3 |
| Grammar structure and | d stylis | stics. Conversational and specialised topics selected according to the language group | level and with reg | ard to the Fa | aculty's field | s of study. | Focus on |
| improvement in percep | otive ar | nd communicative skills; widening the vocabulary. Basic kinds of compositions. Presen | tations of own fin | dings in both | n oral and w | ritten forms | . Technical |
| texts and their features | s; pract | tice of oral and written presentation. | | | | | |
| 615JZ4A | For | reign Language - English 4 | | | Z | ,ZK | 3 |
| Grammar structure and | | stics. Conversational and specialised topics selected according to the language group | level and with reg | ard to the Fa | aculty's field | s of study. | Focus on |
| improvement in percep | otive ar | nd communicative skills; widening the vocabulary. Basic kinds of compositions. Presen | tations of own fin | dings in both | n oral and w | ritten forms | . Technical |
| texts and their features | s; pract | tice of oral and written presentation. | | | | | |
| 615JZ3N | For | reign Language - German 3 | | | | Z | 3 |
| | | ction of conversation and professional topics based on the language level and study for | ocus at the Facult | v. Improvem | ent of langu | age structu | re knowledae |
| | | icative skills, vocabulary development. Basic stylistic forms. Presentation of own knowl | | | • | ū | |
| features. Practice of or | | | | | , | | , |
| 615JZ4N | For | reign Language - German 4 | | | Z | .ZK | 3 |
| Grammar and stylistics | | ction of conversation and professional topics based on the language level and study fo | cus at the Facult | y. Improvem | ent of langu | age structu | re knowledge |
| and perceptive and co | mmuni | icative skills, vocabulary development. Basic stylistic forms. Presentation of own knowl | edge in oral and | written form. | Work with (| professiona | al) text and its |
| features. Practice of or | al and | written presentation. | _ | | | | |
| 615JZ3R | For | reign Language - Russian 3 | | | | Ζ | 3 |
| Grammar and stylistics | | ction of conversation and professional topics based on the language level and study for | ocus at the Facult | v. Improvem | ent of langu | age structu | re knowledae |
| | | icative skills, vocabulary development. Basic stylistic forms. Presentation of own knowl | | | • | • | • |
| features. Practice of or | | · · · · · · · · · · · · · · · · · · · | | | | | , |
| 615JZ4R | _ | reign Language - Russian 4 | | | 7 | .ZK | 3 |
| | | ction of conversation and professional topics based on the language level and study fo | ocus at the Facult | v Improvem | ı | ' | • |
| | | icative skills, vocabulary development. Basic stylistic forms. Presentation of own knowl | | | - | - | _ |
| features. Practice of or | | · · · · · · · · · · · · · · · · · · · | ougo o.u. uu | | | p. 0.000.0 | , τολί απα πο |
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List of courses of this pass:

| Code | Name of the course | Completion | Credits |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------|
| 611DAD | Differential and Difference Equations | Z,ZK | 3 |
| • | ntial equation of the first order and some methods of its solution. Differential equations of the n-th order, linear diferential equations. | | • |
| for ordinary | linear differential equation of the second order. Systems of linear differential equations. Difference equations, linear difference equati | ons and their syste | ems. |
| 611FY1 | Physics 1 | Z,ZK | 4 |
| Kinem | atics, particle dynamics, dynamics of particle systems and rigid body. Continuum mechanics, thermodynamics, electric field, directed | d electric current. | |
| 611FY2 | Physics 2 | Z,ZK | 4 |
| Magnetic field, elec | tromagnetic field. Optics, quantum character of electromagnetic radiation. Introduction into quantization, hydrogen atom. Multi-electr | on atoms, the nucle | ei. Basics of |
| | solid body physics. | | |
| 611GIE | Geometry | KZ | 3 |
| Orthographic and | oblique projections, linear perspective. Topographic surfaces and their orthogonal projection. Differential geometry of curves - param | eterization, arc of | the curve, |
| torsion a | and curvature, Frenet's trihedron. Kinematics - a curve as a trajectory of the motion, the velocity and acceleration of a particle moving | g on a curved path | |
| 611LA | Linear Algebra | Z,ZK | 3 |
| Vector spaces (line | ar combinations, linear independence, dimension, basis, coordinates). Matrices and operations. Systems of linear equations and the | r solvability. Deterr | ninants and |
| | their applications. Scalar product. Similarity of matrices (eigenvalues and eigenvectors). Quadratic forms and their classificati | on. | |
| 611MSP | Modeling of Systems and Processes | Z.ZK | 4 |
| System and subsys | tem, external and internal system description, continuous and discrete system, mathematics as a tool, examples of formulation of differe | ntial and differentia | l equations. |
| Linear and non | inear system, stationary and non-stationary system, causality. Convolutional integral. Laplace and Z transformations. Transfer functic | n. Stability of LTI s | ystems. |
| | Discretization of continuous systems. System interconnection. | | |
| 611MTA | Mathematical Analysis | Z,ZK | 4 |
| Sequences and ser | ies of real numbers and its convergence. Basic properties of functions. Differential and integral calculus of the real function of one real | variable. Power se | ries, Fourier |
| | series and foundations of Fourier transform. | | |
| 611MVP | Mathematical Analysis of Function of More Variables | Z,ZK | 3 |
| Metric spaces, seq | uences in metric spaces, limit of sequence in metric space. Differential calculus of functions of several variables, differential of functio | n, partial derivation | ns, implicitly |
| defined functions, | extremes of functions of several variables. Integral calculus of functions of several variables, Riemann integral, integral over curves a | nd surfaces in R3, | application |
| | of integral calculus in physics. | | |
| 611PT | Probability | Z | 2 |
| Descriptive statistic | s. Basic probability concepts: elementary events and events, definitions and interpretation of probability. Random variable, probability | ا distribution, proba / | ability mass |
| and density, mom | ents, some discrete and continuous distributions. Random vectors: joint and marginal distributions, mean vector, covariance matrix. N | lixed distributions, | mixture of |
| | distributions. Law of large numbers, central limit theorem. | | |
| 611SIS | Statistics | Z,ZK | 2 |
| | roperties of point estimators, methods of point estimation. Testing statistical hypothesis. Fit test, independence test. Regression and | correlation, linear i | egression, |
| correlation coefficie | nt, coefficient of determination, general linear model, statistical inference in linear regression, analysis of variance, multiple regression | , use of matrices in | regression. |
| | | | |
| 611Y1MM | Mathematical Models in Economy | KZ | 2 |
| - | Mathematical Models in Economy urse is to teach selected methods of linear programming, with theoretical procedures applicable for individual tasks and their program | | _ |

| <u>, </u> | | | |
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| 611Y1PV | Parametrical and Multicriterial Programming | KZ | 2 |
| | em of linear programming with a parameter in objective function, on right sides and in the matrix of coeficients of linear constraints. Co | | |
| 611Y1SI Basic concepts of so | Transportation Software Engineering ftware engineering, ranging from domain analysis, requirement analysis and software architectures to analyses, design and implemen and practical usuage. | KZ tation using forma | 2 al technique |
| 611Y1TG | · · · · · · · · · · · · · · · · · · · | KZ | 2 |
| | Graph Theory terminology of graph theory, graph representation. Problems of graph theory, problem instance. Graph search algorithms, trees, min | | 1 |
| - | an path, bipartite graph matching, flow networks, circulations, critical path method, traveling salesman problem. Problem of existence ar | | |
| atti problem, Eulena | for their solving. Computational complexity, dealing with NP-complete problems, heuris | id optimization at | id algoritiini |
| 611Y1ZM | Foundation of MATLAB Programming | KZ | 2 |
| I . | le of algorithmization, flow charts, description of MATLAB environment and its settings, MATLAB help, mathematical operators, matri | | 1 |
| o explain the princip | control flow, inputs and outputs, graphics, optimization and program code debugging. | ood and didinions | o oporation o |
| 612MDE | Transport Models and Transport Excesses | Z,ZK | 3 |
| | affic flow and methods for their measurement. Models of the traffic flow, communications load, line and urban systems. Theory of qui | , | 1 |
| | sessment. Statistical characteristics of transport. Transport excesses, their analysis, the causes, identify and minimize the conseque | | - |
| · | safety and fluency. | | · |
| 612PKD | Rail Transport Designing | Z,ZK | 3 |
| | rk. Vehicle and track relation. Traction. Track geometrical parameters. Clearance profile. Railway lines routing. Superstructure and sub | | |
| • | Switches. Railway stations. City rail transport. | | , |
| 612PPOK | Designing Roads, Highways and Motorways | KZ | 3 |
| I . | wnership, maintenance, management and categorization of roads and highways. Curve and transition curve. Sinuosity and standard | | 1 |
| | topping and overtaking. Road body - shapes and proportions, bottom and superstructure. Drainage and components of roads. Safety | | |
| 3 | intersections. | • | 5 -, 1 - |
| 612X31 | Project 1 | Z | 2 |
| 612X32 | Project 2 | <u>Z</u> | 2 |
| | Project 2 Project 3 | Z | 2 |
| 612X33 | · · · · · · · · · · · · · · · · · · · | | |
| 612Y1C1 | Designing Roads in Civil 3D I | KZ | 2 |
| | oted to the traffic buildings design field, specifically the design of roads as such, by the means of a 3D software. Students go through | | - |
| particular linear bu | ilding, from the initial situation, over the longitudinal section, to the model and work sections and the cubic capacity calculation. The | course also inclu | des a basic |
| 040)/400 | explanation of the traffic building design in the real-life profession. | 1/7 | |
| 612Y1C2 | Designing Roads in Civil 3D II | KZ | 2 |
| | oted to the traffic buildings design field, specifically the design of roads as such, by the means of a 3D software. Students go through | | - |
| particular linear bui | lding, from the initial situation, over the longitudinal section, to the model and work sections and the cubic capacity calculation. The | reviously acquire | ed skills are |
| • | increased and developed Challents I can be design interesting. | ororiously asquire | ou orano ar o |
| | improved and developed. Students learn to design intersections. | | |
| 612Y1DS | Project Documentation in Practice | KZ | 2 |
| 612Y1DS | Project Documentation in Practice tion creating. Project documentation types. Support materials for project documentation creating. Building permit obtaining process. I | KZ | 2 |
| 612Y1DS Project documentat | Project Documentation in Practice tion creating. Project documentation types. Support materials for project documentation creating. Building permit obtaining process. I creation of some project documentation parts. | KZ Budget and pricir | 2 ng. Practical |
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| 614DB | Database Systems | KZ | 2 |
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| | indamentals of relational and object database systems, database structure, relations modelling, relation algebra, dbf. tools, database | | |
| remote data acce | ess. Basic statement of SQL language. Expert systems and knowledge based applications, knowledge representation, methods of de | rivating and implen | nentating, |
| 04.45.45 | interface for knowledge systems design, certainty and uncertainty in knowledge systems. | 1/7 | |
| 614EAT | Economic Analyses in Spreadsheets Programs Environment | KZ | 2 |
| work with spreads | heet programs with the respect to economic problems, use of nested functions and conditional formatting, statistic and mathematic fur other graphic outputs. Data analysis, lists and contingent tables. | ictions. Creation of | graphs and |
| 614KSP | Constructing with Computer Aid | KZ | 2 |
| | m determination. CAD role in projecting system model. Existing CAD systems on Czech market. Project creation, basic common wor | | |
| | Co-ordinated systems, CAD environment skill (basics of constructing, dimensioning, modifications, user interfaces, projecting possible constructions). | | |
| | profiles, drawings with raster foundaments). | | |
| 614SIAP | Networks and Protocols | KZ | 2 |
| | tion model, history and development of the Internet, principle of data transfer through computer networks (TCP/IP), performance of b | | |
| RARP, TCP, UDP, T | elnet, FTP, DNS, DHCP POP3, IMAP), data acquirement from the Internet sources, communicating ability via the Internet and fundament | entals of own web p | resentation |
| | design by the means of web sites. | | |
| 614TEU | Creation of Scripts and Macros for Economic Tasks | KZ | 2 |
| Fundamentals of v | /BA, functions and procedures, examples of their use. Forms and offers for user oriented applications, cooperation with other applica | tions, solution to co | ompatibility |
| 614UATT | problems among different spreadsheet programs versions. Everything with the respect to economic tasks. | KZ | 2 |
| | Introduction to Automatization and Telecommunication Systems technical cybernetics, automatization in transportation, human as the weakest element, signalling in transpotation, modelling and pro | l I | |
| | reclinical cyclemetics, automatization in transportation, number as the weakest element, signalling in transportation, modelling and pro- ogical and infromation system in post, principle of telecommunication signal transmission, solving of telecommunication networks, mo | | - |
| ogratou tooriiroit | networks and services, NGN networks. | adiating metrode, | |
| 614UPRO | Introduction to Programming | KZ | 2 |
| | pment, methods of structured programming, high-level programming languages, basics of C programming languages (types, variable | s, conditions, cycle | |
| | functions), programming techniques, complexity. | | |
| 614W1HW | Computer Hardware | KZ | 4 |
| Computer archite | ecture, basics of logical circuits design and their realization using FPGA. In detail, description of computer architecture and separate | parts designing - co | ontrollers, |
| | arithmetic and logical units, I/O subsystem. | | |
| 614W1PJ | C Programming Language | KZ | 4 |
| C programming lan | guage. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation, strir | _ | and unions. |
| 04.414.04 | Implementations of abstract data types (FIFO, LIFO, list), programming techniques (sorting, searching, recursion), using bitwise or | | |
| 614WS1 | Webdesign With Web Standards 1 | KZ | 2 |
| mi iP, URL, marku | p languages HTML and XHTML, anchors, tables, images, lists, forms, features of CSS, rules of accessible web pages, usability of we browsers, one, two and three column pages, page validation, conditional comments, CSS hacks. | eb pages, problems | or dinerent |
| | browsers, one, two and three column pages, page validation, conditional comments, ode hacks. | | |
| 61/1///\$2 | Webdesign With Web Standards 2 | K7 | 2 |
| 614WS2 Advanced CSS te | Webdesign With Web Standards 2 chniques, Multi-level menu, SEO - Search Engine Optimization, Web technologies; JavaScript, Flash, PHP, AJAX, AccessKev, Favico | KZ | 2 xes. Usina |
| | Webdesign With Web Standards 2 chniques. Multi-level menu. SEO - Search Engine Optimization. Web technologies: JavaScript, Flash, PHP, AJAX. AccessKey, Favico API for maps or searching. Audit and page statistics. Use of useful scripts. Systems for content management. | | |
| | chniques. Multi-level menu. SEO - Search Engine Optimization. Web technologies: JavaScript, Flash, PHP, AJAX. AccessKey, Favico | | |
| Advanced CSS te | chniques. Multi-level menu. SEO - Search Engine Optimization. Web technologies: JavaScript, Flash, PHP, AJAX. AccessKey, Favico API for maps or searching. Audit and page statistics. Use of useful scripts. Systems for content management. | n, rollovers, lightbo | xes. Using |
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| Advanced CSS te 614Y1AV Advanced modifica | chniques. Multi-level menu. SEO - Search Engine Optimization. Web technologies: JavaScript, Flash, PHP, AJAX. AccessKey, Favico API for maps or searching. Audit and page statistics. Use of useful scripts. Systems for content management. Animation and Visualization tions and modeling of NURBS, Patch objects, selection of objects (according to filter and properties). 3D Studio MAX systems and Spa | n, rollovers, lightbo | xes. Using 2 atmospheric |
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| Advanced CSS te 614Y1AV Advanced modifica and other effect 614Y1BE The issue of barrier of barrierless environ 614Y1BM Basic biometric te retina recognition r 614Y1HW Computer archite 614Y1MP Assemblies pro- 614Y1OP Distributions. Ins runlevels. Basic of 614Y1P2 Overview of CAx al modification (attributions) 614Y1PA | chiques. Multi-level menu. SEO - Search Engine Optimization. Web technologies: JavaScript, Flash, PHP, AJAX. AccessKey, Favico API for maps or searching. Audit and page statistics. Use of useful scripts. Systems for content management. Animation and Visualization tions and modeling of NURBS, Patch objects, selection of objects (according to filter and properties). 3D Studio MAX systems and Sps. s, rendering filters, Motion blur, advanced animations, Motion panel. Modeling for morphing and animation, bone formation, animation Barrierless Transport riess accessible public transportation in terms of architectural barriers and also for transportation-technological point of view. Students comment roads, railway stations, public transport stops, terminal buildings, vehicles, public transport, information and orientation systems Theoretical knowledge will be supplemented by practical examples. Biometric Methods rms, authentication methods, principles and performance measurement of biometric systems, overview of biometric technologies, has nethod, 2D and 3D face recognition, vein patterns on the wrist, ear biometrics, fingerprint recognition, skin spectroscopy, behavioral resolution, being the patcure, basics of logical circuits design and their realization using FPGA. In detail, description of computer architecture and separate parthmetic and logical units, I/O subsystem. Modeling Complex Assemblies and Models in Parametric Modeller gramming - tools and methodology of working subassemblies and assemblies, sheet metal parts modelling, welded assemblies, pipe Photorealistic output rendering - physical and material properties, lighting sources. MKP - visual example. Operating System Stallation GNU/Linux OS. X-window system. Rights management - users and groups, ACL rights. Filesystems and attributes. Program console programs / commands. Config files. SW managements and secure configuration of OS. Remote administration. Computer Aid of Transportation Projecting 2 opilication for transportation projecting gioup, e | n, rollovers, lightbook KZ ace Warp objects. An using Inverse Kin KZ will gain theoretical and transportation KZ and geometry, iris remethods, the use of the use | xes. Using 2 Atmospheric ematics. 2 I knowledge technology. 2 ecognition, f biometrics 2 ontrollers, 2 on lines. 2 OS boot, video and 2 nced blocks longitudinal 2 |
| Advanced CSS te 614Y1AV Advanced modifica and other effect 614Y1BE The issue of barrier of barrierless environ 614Y1BM Basic biometric te retina recognition r 614Y1HW Computer archite 614Y1MP Assemblies pro- 614Y1OP Distributions. Ins runlevels. Basic of 614Y1P2 Overview of CAx al modification (attributions) 614Y1PA | chiques. Multi-level menu. SEO - Search Engine Optimization. Web technologies: JavaScript, Flash, PHP, AJAX. AccessKey, Favico API for maps or searching. Audit and page statistics. Use of useful scripts. Systems for content management. Animation and Visualization tions and modeling of NURBS, Patch objects, selection of objects (according to filter and properties). 3D Studio MAX systems and Spass, rendering filters, Motion blur, advanced animations, Motion panel. Modeling for morphing and animation, bone formation, animation Barrierless Transport riess accessible public transportation in terms of architectural barriers and also for transportation-technological point of view. Students on the state of transport stops, terminal buildings, vehicles, public transport, information and orientation systems. Biometric Methods rms, authentication methods, principles and performance measurement of biometric systems, overview of biometric technologies, have nethod, 2D and 3D face recognition, vein patterns on the wrist, ear biometrics, fingerprint recognition, skin spectroscopy, behavioral report in transport applications, safety and risks of biometric technologies. Computer Hardware acture, basics of logical circuits design and their realization using FPGA. In detail, description of computer architecture and separate arithmetic and logical units, I/O subsystem. Modeling Complex Assemblies and Models in Parametric Modeller gramming - tools and methodology of working subassemblies and assemblies, sheet metal parts modelling, welded assemblies, pipe Photorealistic output rendering - physical and material properties, lighting sources. MKP - visual example. Operating System console programs / commands. Config files. SW management - users and groups, ACL rights. Filesystems and attributes. Program communication. Services management - users and groups, ACL rights. Filesystems and attributes. Program communication. Services management. Safe and secure configuration of OS. Remote administration. Computer Aid of Transpor | n, rollovers, lightbook KZ ace Warp objects. An using Inverse Kin KZ will gain theoretical and transportation KZ and geometry, iris remethods, the use of the use | xes. Using 2 Atmospheric ematics. 2 I knowledge technology. 2 ecognition, f biometrics 2 ontrollers, 2 on lines. 2 OS boot, video and 2 nced blocks longitudinal 2 |
| Advanced CSS te 614Y1AV Advanced modifica and other effect 614Y1BE The issue of barrier of barrierless environ 614Y1BM Basic biometric te retina recognition r 614Y1HW Computer archite 614Y1MP Assemblies pro- 614Y1OP Distributions. Ins runlevels. Basic of 614Y1P2 Overview of CAx al modification (attributions) 614Y1PA | chniques. Multi-level menu. SEO - Search Engine Optimization. Web technologies: JavaScript, Flash, PHP, AJAX. AccessKey, Favico API for maps or searching. Audit and page statistics. Use of useful scripts. Systems for content management. Animation and Visualization tions and modeling of NURBS, Patch objects, selection of objects (according to filter and properties). 3D Studio MAX systems and Sps, rendering filters, Motion blur, advanced animations, Motion panel. Modeling for morphing and animation, bone formation, animation Barrierless Transport riess accessible public transportation in terms of architectural barriers and also for transportation-technological point of view. Students on the properties of the public transport stops, terminal buildings, vehicles, public transport, information and orientation systems. Theoretical knowledge will be supplemented by practical examples. Biometric Methods rms, authentication methods, principles and performance measurement of biometric systems, overview of biometric technologies, ha nethod, 2D and 3D face recognition, vein patterns on the wrist, ear biometrics, fingerprint recognition, skin spectroscopy, behavioral rein transport applications, safety and risks of biometric technologies. Computer Hardware acture, basics of logical circuits design and their realization using FPGA. In detail, description of computer architecture and separate arithmetic and logical units, I/O subsystem. Modeling Complex Assemblies and Models in Parametric Modeller gramming - tools and methodology of working subassemblies and material properties, lighting sources. MKP - visual example. Operating System tallation GNU/Linux Os. X-window system. Rights management - users and groups, ACL rights. Filesystems and attributes. Program console programs / commands. Config files. SW management, package systems. Programs in graphic shell - text, spreadsheet, graph communication. Services management, safe and secure configuration of Os. Remote administration. Computer Aid of Transportation Proj | n, rollovers, lightbook KZ ace Warp objects. An using Inverse Kin KZ will gain theoretical and transportation KZ and geometry, iris remethods, the use of the use | xes. Using 2 Atmospheric ematics. 2 I knowledge technology. 2 ecognition, f biometrics 2 ontrollers, 2 on lines. 2 OS boot, video and 2 nced blocks longitudinal 2 |
| Advanced CSS te 614Y1AV Advanced modifica and other effect 614Y1BE The issue of barrier of barrierless environ 614Y1BM Basic biometric te retina recognition r 614Y1HW Computer archite 614Y1MP Assemblies prod 614Y1OP Distributions. Ins runlevels. Basic of 614Y1P2 Overview of CAx a modification (attributions) 614Y1PA Work in 3D non-p 614Y1PG | chniques. Multi-level menu. SEO - Search Engine Optimization. Web technologies: JavaScript, Flash, PHP, AJAX. AccessKey, Favico API for maps or searching. Audit and page statistics. Use of useful scripts. Systems for content management. Animation and Visualization tions and modeling of NURBS, Patch objects, selection of objects (according to filter and properties). 3D Studio MAX systems and Sps, rendering filters, Motion blur, advanced animations, Motion panel. Modeling for morphing and animation, bone formation, animation Barrierless Transport fless accessible public transportation in terms of architectural barriers and also for transportation-technological point of view. Students onment roads, railway stations, public transport stops, terminal buildings, vehicles, public transport, information and orientation systems Theoretical knowledge will be supplemented by practical examples. Biometric Methods rms, authentication methods, principles and performance measurement of biometric systems, overview of biometric technologies, ha neithod, 2D and 3D face recognition, vein patterns on the wrist, ear biometrics, fingerprint recognition, skin spectroscopy, behavioral relations in transport applications, safety and risks of biometric technologies. Computer Hardware Computer Hardware Stutie, basics of logical circuits design and their realization using FPGA. In detail, description of computer architecture and separate parathmetic and logical units, I/O subsystem. Modeling Complex Assemblies and Models in Parametric Modeller gramming - tools and methodology of working subassemblies and assemblies, sheet metal parts modelling, welded assemblies, pipe Photorealistic output rendering - physical and material properties, lighting sources. MKP - visual example. Operating System tallation GNU/Linux OS. X-window system. Rights management - users and groups, ACL rights. Filesystems and attributes. Program console programs / communication. Services management. Safe and secure configuration of OS. Remote administration. | n, rollovers, lightbook KZ ace Warp objects. An using Inverse Kin KZ will gain theoretical and transportation KZ and geometry, iris remethods, the use of the use | xes. Using 2 Atmospheric ematics. 2 I knowledge technology. 2 ecognition, f biometrics 2 controllers, 2 con lines. 2 OS boot, video and 2 nced blocks longitudinal 2 x with data 2 |

| 614Y1PI | Corporate Information System | KZ | 2 |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------|
| | on-knowledge, components of information system, syntatic and semantic sense of data, structure of corporate information system, par luction, storage, etc.), corporate information politic and information control, risks of information system operation, legal environment of | | - |
| (personalistic, proc | state information system, information system security, data protection, safety politics. | inionnation system | пторегацоп, |
| 614Y1PJ | C Programming Language | KZ | 2 |
| | guage. Preprocessor, basics of the C language (data types, syntax, commands), functions, pointes, dynamical memory allocation, strin | g, files, structures | and unions. |
| | Implementations of abstract data types (FIFO, LIFO, list), programming techniques (sorting, searching, recursion), using bitwise op | | |
| 614Y1TI | Creating Interactive Internet Applications | KZ | 2 |
| Possibilities of scrip | oting language PHP. Overview of PHP language syntax, and functions. Analysis of finished scripts and demonstration of solutions. Your | own application p | orogrammed |
| C4 4\/4\/N4 | in PHP language. | 1/7 | |
| 614Y1VM | Development of Applications for Mobile Devices programming, Java programming language, development environment, operating system Android, development application - widgets, | KZ | ds menu |
| Object offerfied | permissions, services, GUI. | containers, timea | as, mena, |
| 614Y1W1 | Webdesign 1 | KZ | 2 |
| | the basics of communication HTTP, URL and addressing, markup languages HTML and XHTML, HTML tags, rules of web accessibility | | I |
| and selectors | , the issue of web browsers, creating one to three column layout pages, sites validation, conditional comments. Topics will be practice | d on practical exa | mples. |
| 614Y1W2 | Webdesign 2 | KZ | 2 |
| Students will learn | advanced techniques CSS, responsive webdesign, CSS frontends, content management systems, JavaScript, jQuery, SEO, web serv | er installation + o | configuration |
| 044)/4714 | directives. Topics will be practiced on practical examples. | 177 | |
| 614Y1ZM | Fundamentals of parametric and adaptive modeling | KZ | 2 |
| pasics of Molk at b | roducts and parts creation. Sketch drawing by help of geometric relations, parametric dimensions, creation of adaptive models from 2l from and to another systems. Fundamentals of assemblies creation. | okelones. Impor | ı anu export |
| 614ZAET | Fundamentals of Electrotechnics | KZ | 2 |
| | ic terms, circuit quantities. Periodic courses characteristics. Electric circuits elements and basic circuit members. Assignating of bipole | | |
| | irrent circuits with a help of circuit analysis elementar methods: method of consecutive reduction, unloaded voltage divider, current divider | | |
| | and principle of superposition in direct current circuits. | | |
| 614ZINF | Fundamentals of Informatics | KZ | 2 |
| | culty network, MS-Word and Open Office, use of styles and advanced features, computer functions and information transmission. Nun | • | |
| calculations. Algori | thms and their proprieties. Flow charts for algorithms drawing. Mathematic and logic ordering algorithms incl. functions and procedures graphs, calculations, functions. | . Work with MS-E | xcel - tables, |
| 615JZ1A | Foreign Language - English 1 | Z | 3 |
| | ures and style. Selection of conversation topics relating to transportation sciences. Extending vocabulary, developing perceptive and con | - | _ |
| | stylistics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles o | | , |
| 615JZ1N | Foreign Language - German 1 | Z | 3 |
| | ure and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Faculty | - | |
| improvement in p | perceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral | and written forms. | . Technical |
| 045 1740 | texts and their features; practice of oral and written presentation. | 7 | |
| 615JZ1R | Foreign Language - Russian 1 ure and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Faculty | Z 's fields of study | Focus on |
| | perceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral | - | |
| , , | texts and their features; practice of oral and written presentation. | | |
| 615JZ2A | 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 con | | . Elementary |
| | stylistics forms. Oral and written presentation of original research. Academic text principles and reading comprehension. Principles o | | |
| 615JZ2N | Foreign Language - German 2 | Z,ZK | _ 3 |
| | ure and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Faculty | · · · · · · · · · · · · · · · · · · · | |
| improvement in p | perceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral attention texts and their features; practice of oral and written presentation. | and willen loinis. | . recrimical |
| 615JZ2R | Foreign Language - Russian 2 | Z,ZK | 3 |
| | ure and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Faculty | | I |
| | perceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral | · · · · · · · · · · · · · · · · · · · | |
| | texts and their features; practice of oral and written presentation. | | |
| 615JZ3A | Foreign Language - English 3 | Z | 3 |
| | ure and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Faculty | · · · · · · · · · · · · · · · · · · · | |
| improvement in p | perceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral and written presentation. | and written forms. | . rechnical |
| 615JZ3N | texts and their features; practice of oral and written presentation. Foreign Language - German 3 | Z | 3 |
| | Foreigh Language - German 3 istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la | | - |
| - | d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w | | _ |
| | features. Practice of oral and written presentation. | | |
| 615JZ3R | Foreign Language - Russian 3 | Z | 3 |
| - | istics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la | | _ |
| and perceptive an | d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w | vith (professional) | text and its |
| 045 1744 | features. Practice of oral and written presentation. | 7 717 | |
| 615JZ4A | Foreign Language - English 4 | Z,ZK | Focus on |
| | ure and stylistics. Conversational and specialised topics selected according to the language group level and with regard to the Faculty perceptive and communicative skills; widening the vocabulary. Basic kinds of compositions. Presentations of own findings in both oral a | · · · · · · · · · · · · · · · · · · · | |
| | | | |
| | texts and their features; practice of oral and written presentation. | | |

| 615JZ4N | Foreign Language - German 4 | Z,ZK | 3 |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------|
| | stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la | | - 1 |
| and perceptive and | d communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v | with (professional) | text and its |
| 045 1745 | features. Practice of oral and written presentation. | 7.71 | |
| 615JZ4R | Foreign Language - Russian 4 | Z,ZK | 3 |
| | stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of lad communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v | | - |
| and perceptive and | features. Practice of oral and written presentation. | viiii (proicosionai) | toxt and its |
| 615W1BO | Work Safety and Health Protection in Transportation | KZ | 4 |
| | lative, definition of terms, risks and possible health damage, working conditions and health protection with focus on transportation. H | | - |
| | health insurance of home and foreign business trips, statistics, working practice. | | |
| 615W1HD | History of City Mass Transport | KZ | 4 |
| | s transport in the world, development of tram, bus and trolley-bus systems. History of transport networks in the world, current trends a | = | of tariff and |
| | nce systems. History of city transport in Prague and Brno. History of tram, bus and trolley-bus operation systems in the Czech Reput | | |
| 615W1HE | Work Hygiene and Ergonomics in Traffic | KZ | . 4 |
| _ | of occupational hygiene and ergonomics, and their application in transport. Working environment factors, and the influence of these | | |
| Creation and prote | ection of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to p Practical examples from the field of transportation; relevant legislative. | OSSIDIIILIES AND SKI | iis oi iiiaii. |
| 615X31 | Project 1 | Z | 2 |
| 615X32 | Project 2 | Z | 2 |
| 615X33 | Project 3 | Z | 2 |
| 615Y1BO | Work Safety and Health Protection in Transportation | KZ | 2 |
| | lative, definition of terms, risks and possible health damage, working conditions and health protection with focus on transportation. H | | |
| i dildamentariegis | health insurance of home and foreign business trips, statistics, working practice. | calli protection pro | ogrammos, |
| 615Y1DU | History of Art and Society | KZ | 2 |
| | efinitions, terminology, division into periods. Architecture, fine arts, design. Situation in Central Europe, today in the Czech Republic. | Stations, bridges, i | |
| - | buildings. Design of transport vehicles. | | |
| 615Y1DZ | History of Railway | KZ | 2 |
| | yays, steam railways, railway network development in the 2nd half of 19th century, regional railways epoch, railways of the "First Repu | | |
| War II railways, railv | vay development in the 2nd half of 20th century, high-speed railway origins, railway lines closing, important long-distance train connecti | ons, railway lines c | onstruction, |
| 0457/4511 | railway accidents, railway junctions. Excursions and projections. | 1/7 | 0 |
| 615Y1EH | European Integration within Historical Context formation of new states. Europe and the powers, League of Nations. European policy in the 1920s. Fascism, nacism, communism. Li | KZ | 2 |
| - | er Hitler's getting to power, system of bilateral agreements. Decline of the LN. Rearrangement of powers during WWII. Cold war and it | • | |
| godio. Europo dite | New quality of French-German relationship - a driving power of starting European integration. | .o concoquences ic | or Europo. |
| 615Y1FD | French Area Studies and Transportation | KZ | 2 |
| | by and regions, transport infrastructure. Paris and its sights, city public transport. Road traffic, motorways, railway traffic, TGV, air traf | | |
| Frer | nch society and culture. Current political system. System of education, studying in France. Selected authors of French literature. French | ch gastronomy. | |
| 615Y1HD | History of City Mass Transport | KZ | 2 |
| | s transport in the world, development of tram, bus and trolley-bus systems. History of transport networks in the world, current trends a | • | of tariff and |
| | nce systems. History of city transport in Prague and Brno. History of tram, bus and trolley-bus operation systems in the Czech Reput | | _ |
| 615Y1HE | Work Hygiene and Ergonomics in Traffic | KZ | 2 |
| _ | of occupational hygiene and ergonomics, and their application in transport. Working environment factors, and the influence of these ection of working conditions that do not damage public health. Mutual links man-machine-environment. Adaptation of technology to p | | |
| Creation and prot | Practical examples from the field of transportation; relevant legislative. | USSIDIIILIES AND SKI | iis oi iiiaii. |
| 615Y1HL | History of Civil Aviation | KZ | 2 |
| | g, development of aircrafts lighter than air. Beginnings of aircrafts heavier than air. Czechoslovak aviation pioneers. Development of a | l I | |
| | amous aviators. Helicopters. CSA airplanes. Development of aircrafts in Czechoslovakia between the years 1945-1989. Classic era of | • | - |
| | aviation. Modern era of civil aviation. Airline companies. Supersonic flying. | | |
| 615Y1NE | German in the Economy and Society | KZ | 2 |
| Recent economic | and social issues of German speaking countries and of the EU. Reading and listening of texts. Lexical, grammatical and semantic an | alysis of texts. Disc | cussion on |
| | selected topics. | | _ |
| 616UDDM | Introduction to Transportation and Manipulation Technics | ZK | 2 |
| Means of transporta | ation and transportation systems. Principles, functions and arrangement of means of transportation. Motors and their characteristics. Wat technics. Principles of lifting machines and conveyors. Legislature. | er transportation. N | lanipulating |
| 616W1PV | Operation, Construction and Maintenance of Vehicles | KZ | 4 |
| | production. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measureme | | |
| | General principles of engine diagnostics. | | |
| 616X31 | Project 1 | Z | 2 |
| 616X32 | Project 2 | Z | 2 |
| 616X33 | Project 3 | Z | 2 |
| 616Y1EN | Energy Requirements of Vehicles | KZ | 2 |
| | driving inertial of the vehicles. Types of energy - kinetic, static, heat, chemical and others. Ways of energy change into kinetic energy | | |
| | drive, steam engine, air engine. Energy accumulation means, accumulator, flywheel, fuel cell. Energy recuperation. WTW anal | | |
| 616Y1IS | Interactive simulators and simulations | KZ | 2 |
| | y and application of computing equipment. Creating computing models. Mechanical and dynamic systems and their mathematical models are for the computing and their mathematical models. Provided the computing are for the computing and the computing are for the computing are for the computing and the computing are for the computing are fo | | nethods. |
| Simul | ation of vehicle dynamics, on-land carriage in particular. Virtual reality systems. Practical exercise with simulation software and intera | ictive simulators. | |

| 040)/41/0 | Overlite and Deliability of Valida | 1/7 | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| 616Y1KS | Quality and Reliability of Vehicles | KZ | 2 A (Failure |
| - | Analysis), QFD (Quality Function Deployment), DFx (Design for Assamly, Manufacturying, Quality, Services) and other methods us | | |
| 040)/40)/ | Knowledge-based systems of quality and reliability, data collection. | 1/7 | 0 |
| 616Y1PV | Operation, Construction and Maintenance of Vehicles | KZ | 2 |
| vietrious or verticle | production. Vehicle maintenance. Vehicle diagnostics. Maintenence and repair plans. Engine maintenance and emission measuremer General principles of engine diagnostics. | iii. Italisiilissioii ii | nechanism |
| 616Y1RE | Control and Electronic Vehicle Systems | KZ | 2 |
| | ts of regulation. Tools for analytical solution, linear system description. Basic types of a regulator (PID), properties, advantages, disadvan | | onvention |
| and hybrid drive | control. Electric drive. Vehicle communication bus (CAN, LIN, FlexRay, ISObus, KWP2000 protocole etc.). Vehicle electronic control, s comfort systems. | safety, communica | ation and |
| 616Y1VT | Development in Railroad Vehicles | KZ | 2 |
| | traction. Railroad vehicle parametres regulation. Control and driving of railroad vehicles. Importance in heavy duty and personal trans assesment. New materials in design. International standardization. | sportation. Critical | situation |
| 616Y1ZG | Introduction into Applied Computer Graphics | KZ | 2 |
| | s, division and applications with emphasis on transport, including development and research. Colours, colour perception, colour schemon, elementary algorithms for graphic data workout. Visualisation principles and tasks, technics, graphics and visualisation HW basics. graphics software. | | |
| 616Y1ZL | Vehicle Testing, Legislation and Construction | KZ | 2 |
| √ehicle costruction | n, aggregate computing, driving resistance, building and parameters of traction, constructional arrangement of personal cars, trucks, but | uses, motorbikes | legislation |
| | in the EU and in the world, creation of technical legislation, testing methods, vehicle tests, accelerated tests, mathematical modelling | | |
| 617DNV | Transportation of Dangerous Goods | KZ | 2 |
| - | inds of hazards. Classification. Carriage by road, railways, inland waterways, air and maritime transport. Obligations of consignors, car | _ | |
| advisors. System | of international obligatory conditions. Enumerated list of dangerous goods. Packing and marking of packages. Transport documentation | on. Exempted and | unlimited |
| C47E | quantity. Crew, equipment, approval, marking, operation and construction of road vehicles. | 7 71/ | 2 |
| 617E | Economics and macroeconomic interpretation of economic relations. Method and subject of the economics. Economic decision making of consum | Z,ZK | 3 s Market |
| WIICIOECONOMIC 8 | structures. Labour and capital, efficiency, ownership, public choice. | lers and producer | S. IVIAI NEL |
| 617EDOT | Economy, Transport, Telecommunications | KZ | 2 |
| | ommunications, demand, supply, indicators, economic development, legislation, European union, regulation, liberalisation, transport n | | |
| 617EDTP | Economy and Management of Transport and Telecommunication Processes | Z,ZK | 3 |
| | ecommunication system, financing of transport infrastructure, transport policy, transport service, energy sources, public goods, externative and transport services. | • | |
| | treatment, assessment of public projects, CBA method, transport company, costing in transportation, transport quality. | | |
| 617EM | Management Science | KZ | 2 |
| - | g, graphical interpretation and solution of LP problem. Types of distribution problems, transportation problem. Models of network analys | sis. Models of que | uing theory |
| | Models of inventory management. Simulation models. | | |
| 617FIF | Finances and Financing | KZ | 2 |
| | revenue flow. Financial system functions. Financial assets. Types of financing. Company cash flow. Short-term financing instruments. Lon | - | |
| | financial instruments. Banking financial instruments. Financial risk allocation instruments. Payment and hedging instruments. Loan ca | · | |
| 617GEDS | Geography of Transport Systems | KZ | 2 |
| | ntiation of the transport system. Sociogeographic regionalization and its relation to transport. Transport and local and regional develop nodological framework. Mobility research - travel behavior, mode choice and the influence onto "modal-split." Modal competition. Practical analysis in transportation planning. | | |
| 617HG | Economic Geography | Z | 2 |
| | ssues, definitions and introductory concepts. World geography and its research subject. Economic geography - Europe, Asia, Africa, A | _ | |
| | the complete and the complete t | | |
| Republic. Transpo | ort geography and its research subject. Characteristics of transportation as one of the branches of the global economy. Transport system world. Particular transport modes as part of the economy and the world transport system. | ems and their loca | tion in the |
| | world. Particular transport modes as part of the economy and the world transport system. | | tion in the |
| 617LOS Definition of logisti | | Z,ZK trategies of compa | 3 any logistic |
| 617LOS Definition of logisti ystem. Transport in | world. Particular transport modes as part of the economy and the world transport system. Logistic Systems cs, development and science basics of logistics. Basic elements of logistic system, logistic chain. Technology in logistics. Goals and st n logistic system. Logistic technologies in air, rail and water transport. Information systems in logistics and passenger transport. Storag Position of logistics in the Czech Republic and Europe. | Z,ZK trategies of compa | 3 any logistic |
| 617LOS Definition of logisti yystem. Transport ii | world. Particular transport modes as part of the economy and the world transport system. Logistic Systems cs, development and science basics of logistics. Basic elements of logistic system, logistic chain. Technology in logistics. Goals and st n logistic system. Logistic technologies in air, rail and water transport. Information systems in logistics and passenger transport. Storag | Z,ZK trategies of compa te and distribution KZ | 3 any logistics in logistics 2 |
| 617LOS Definition of logisti yystem. Transport ii | world. Particular transport modes as part of the economy and the world transport system. Logistic Systems cs, development and science basics of logistics. Basic elements of logistic system, logistic chain. Technology in logistics. Goals and st in logistic system. Logistic technologies in air, rail and water transport. Information systems in logistics and passenger transport. Storag Position of logistics in the Czech Republic and Europe. Methods of Economics Analysis economical analysis in the domain of analysis of dependencies, analysis and construction of time series and comparsion of statistical states. | Z,ZK trategies of compa te and distribution KZ | 3 any logistic in logistics |
| 617LOS Definition of logistic system. Transport in 617MEKA The techniques of 617MSTP | world. Particular transport modes as part of the economy and the world transport system. Logistic Systems cs, development and science basics of logistics. Basic elements of logistic system, logistic chain. Technology in logistics. Goals and st in logistic system. Logistic technologies in air, rail and water transport. Information systems in logistics and passenger transport. Storag Position of logistics in the Czech Republic and Europe. Methods of Economics Analysis economical analysis in the domain of analysis of dependencies, analysis and construction of time series and comparsion of statistical indices. Small and Medium Enterprise SME, design, plan, market, analysis, finance, management, decision making, survival, growth. | Z,ZK trategies of compa trategies of compa te and distribution KZ values using diffe | 3 any logistics in logistics 2 rencies and |
| 617LOS Definition of logistic system. Transport in 617MEKA the techniques of 617MSTP 617MVD General principles of 617MVD | world. Particular transport modes as part of the economy and the world transport system. Logistic Systems cs, development and science basics of logistics. Basic elements of logistic system, logistic chain. Technology in logistics. Goals and st in logistic system. Logistic technologies in air, rail and water transport. Information systems in logistics and passenger transport. Storag Position of logistics in the Czech Republic and Europe. Methods of Economics Analysis economical analysis in the domain of analysis of dependencies, analysis and construction of time series and comparsion of statistical indices. Small and Medium Enterprise SME, design, plan, market, analysis, finance, management, decision making, survival, growth. Marketing in Transportation of the marketing applied in transportation. Marketing, marketing research, macroworld, microworld, markets, market positioning, product pricing, distribution channels, physical distribution, retail, wholesale, promotion, advertising, segmentation, placement, action pl | Z,ZK trategies of compa le and distribution KZ values using diffe KZ Z,ZK cts, brands, packalan. | 3 any logistic in logistic 2 rencies an 2 ge, service |
| 617LOS Definition of logistic system. Transport in 617MEKA The techniques of 617MSTP 617MVD General principles of 617PDO Transport planning | world. Particular transport modes as part of the economy and the world transport system. Logistic Systems cs, development and science basics of logistics. Basic elements of logistic system, logistic chain. Technology in logistics. Goals and st in logistic system. Logistic technologies in air, rail and water transport. Information systems in logistics and passenger transport. Storag Position of logistics in the Czech Republic and Europe. Methods of Economics Analysis economical analysis in the domain of analysis of dependencies, analysis and construction of time series and comparsion of statistical indices. Small and Medium Enterprise SME, design, plan, market, analysis, finance, management, decision making, survival, growth. Marketing in Transportation of the marketing applied in transportation. Marketing, marketing research, macroworld, microworld, markets, market positioning, production. | Z,ZK trategies of comparie and distribution KZ values using differ KZ Z,ZK cts, brands, packalan. KZ periodic timetable | 3 any logistics in logistics 2 rencies an 2 ge, service 3 p. Planning |
| 617LOS Definition of logistic system. Transport in 617MEKA The techniques of 617MSTP 617MVD General principles of 617PDO Transport planning | world. Particular transport modes as part of the economy and the world transport system. Logistic Systems cs, development and science basics of logistics. Basic elements of logistic system, logistic chain. Technology in logistics. Goals and st in logistic system. Logistic technologies in air, rail and water transport. Information systems in logistics and passenger transport. Storage Position of logistics in the Czech Republic and Europe. Methods of Economics Analysis economical analysis in the domain of analysis of dependencies, analysis and construction of time series and comparsion of statistical indices. Small and Medium Enterprise SME, design, plan, market, analysis, finance, management, decision making, survival, growth. Marketing in Transportation of the marketing applied in transportation. Marketing, marketing research, macroworld, microworld, markets, market positioning, produce pricing, distribution channels, physical distribution, retail, wholesale, promotion, advertising, segmentation, placement, action pl Designing of Public Transport Services g, demand elasticity. Strategy and hierarchical planning of public transport system. Line network planning, concept of offer. Integrated stance and regional transport. Optimised number of rolling-stock, circulation plan of rolling-stock, rolling-stock strategy. Public service lists and services in the economy and the world plan of rolling-stock, rolling-stock strategy. Public service lists are constructed and regional transport. Optimised number of rolling-stock, circulation plan of rolling-stock, rolling-stock strategy. Public service lists are constructed and regional transport. | Z,ZK trategies of comparie and distribution KZ values using differ KZ Z,ZK cts, brands, packalan. KZ periodic timetable | 3 any logistics in logistics 2 rencies and 2 ge, services 3 a. Planning |
| 617LOS Definition of logistic system. Transport in 617MEKA The techniques of 6 617MSTP 617MVD General principles of 617PDO Transport planning process of long-dis 617RIP Project, influences | world. Particular transport modes as part of the economy and the world transport system. Logistic Systems cs, development and science basics of logistics. Basic elements of logistic system, logistic chain. Technology in logistics. Goals and st in logistic system. Logistic technologies in air, rail and water transport. Information systems in logistics and passenger transport. Storag Position of logistics in the Czech Republic and Europe. Methods of Economics Analysis economical analysis in the domain of analysis of dependencies, analysis and construction of time series and comparsion of statistical indices. Small and Medium Enterprise SME, design, plan, market, analysis, finance, management, decision making, survival, growth. Marketing in Transportation of the marketing applied in transportation. Marketing, marketing research, macroworld, microworld, markets, market positioning, product pricing, distribution channels, physical distribution, retail, wholesale, promotion, advertising, segmentation, placement, action pl Designing of Public Transport Services g, demand elasticity. Strategy and hierarchical planning of public transport system. Line network planning, concept of offer. Integrated latance and regional transport. Optimised number of rolling-stock, circulation plan of rolling-stock, rolling-stock strategy. Public service literated and regional transport. Optimised number of rolling-stock, circulation plan of rolling-stock, rolling-stock strategy. Public service literated and regional transport. Optimised number of rolling-stock, circulation plan of rolling-stock, rolling-stock strategy. Public service literates and regional transport. | Z,ZK trategies of compate and distribution KZ values using diffe KZ Z,ZK cts, brands, packalan. KZ periodic timetable iability for various KZ ugement and his compatent and his compatent and second compatent and s | 3 any logistics in logistics 2 rencies an 2 2 ge, service 3 a. Planning segments 2 characters. |
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| 617TDL | Transport Technology and Logistics | Z,ZK | 3 |
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| | sport technology and logistics. Particular steps of transport planning. Quantification of carriage relations. Line planning. Timetabling. Pla | | - 1 |
| transport. Organisa | ttion of traffic in each transport means. Technological factors from the point of view of operator and client. Organisation of public city tr | ransport. Logistic t | technologies |
| | and their application using various transport means. | | |
| 617TGA | Graph Theory and its Applications in Transport | Z,ZK | 4 |
| | f graph theory, paths in graphs, flows in networks, location problems, design problems on graphs, optimum routing, use of graphs in o | | ri — — |
| 617W1AF | Alternative Forms of Transportation Project Financing | KZ | 4 |
| = | ifed such forms of financing in transportation, where the public sector body perform the final debtor, i. e. debtor payments come from i | = | |
| is not a direct partic | cipant of the transaction and it is not the counterparty of the financial institute which provides the funding. Issue of securities as an altern | native source of tra | ansportation |
| | project. | | |
| 617W1EV | Public Sector Economy | KZ | 4 |
| | ncial theory of public sector, public choice theory, externalites, decisions about public finance allocation, economic assessment of public sectors, public choice theory, externalities, decisions about public finance allocation, economic assessment of public sectors, public choice theory, externalities, decisions about public finance allocation, economic assessment of public sectors, public choice theory, externalities, decisions about public finance allocation, economic assessment of public sectors, public choice theory, externalities, decisions about public finance allocation, economic assessment of public sectors, public choice theory, externalities, decisions about public finance allocation, economic assessment of public sectors, public choice theory, externalities, decisions about public finance allocation, economic assessment of public sectors are allocations and the sectors are allocations and the sectors are allocations and the sectors are allocations | | |
| | R, state budget, management of public projects a their economic efficiency assessment, way of elaboration of PPP projects, funding fro | | |
| 617W1LL | Logistics of Passenger and Freight Air Transportation | KZ | 4 |
| Logistics airline pa | ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial trans | sport process pass | sengers and |
| | air cargo. Information systems in air transport. Global distribution systems. | | |
| 617W1ND | Maritime Transportation | KZ | 4 |
| | ance of the maritime transportation, theoretical discipline in maritime transportation, seafaring vessels, maritime ports and their utiliza | _ | |
| maritime ports, trar | resport corridors and link by maritime, river and rail transport I and II, global maritime corridors, logistics of maritime transportation, mar | itime transportatio | on and smart |
| 047)4/4 0 5 | containers, ITS in maritime transport. | 1/7 | |
| 617W1OF | Personal Finance | KZ . | 4 |
| | budget, financing of basic living needs), debt (loans and credits, payment instruments, interest and fees, debt trap), financing of hous financing), savings and investments (investment horizon, return, risk, investment strategy), insurance (insurance types, suitability and a | | |
| consumer loans, re | (retirement savings and investments (investment nonzon, return, risk, investment strategy), insurance (insurance types, suitability and a | adequacy), securir | ng the luture |
| C47\\\\ D\\\ | <u> </u> | 1/7 | |
| 617W1PM | Personnel Management | KZ | 4 |
| | ces, work group, man as personality, planning, choice, evaluation and education of human sources, work adaptation, teamwork, interr | | _ |
| 617W1ST | Titan Simulation | KZ | 4 |
| | gement game simulating the business decisions. Lets 2-8 student groups to produce and compete in the market with the same productive and appears that the same formulation are a superior of productions are a superior of productions. | - | |
| determine the quar | ntity and capacity of production, plan budgets for marketing, research and development. They become familiar with the consequences of financial corporate reports and they use this information for other business decisions. | s of their decisions | s by the form |
| 647V24 | | 7 | |
| 617X31 | Project 1 | Z | 2 |
| 617X32 | Project 2 | Z | 2 |
| 617X33 | Project 3 | Z | 2 |
| | | | |
| 617Y1AF | Alternative Forms of Transportation Project Financing | KZ | 2 |
| There will be spec | ifed such forms of financing in transportation, where the public sector body perform the final debtor, i. e. debtor payments come from i | its budget, but the | final debtor |
| There will be spec | ifed such forms of financing in transportation, where the public sector body perform the final debtor, i. e. debtor payments come from is sipant of the transaction and it is not the counterparty of the financial institute which provides the funding. Issue of securities as an altern | its budget, but the | final debtor |
| There will be speci is not a direct partic | Ifed such forms of financing in transportation, where the public sector body perform the final debtor, i. e. debtor payments come from i sipant of the transaction and it is not the counterparty of the financial institute which provides the funding. Issue of securities as an altern project. | its budget, but the native source of tra | final debtor ansportation |
| There will be specis not a direct partic | fed such forms of financing in transportation, where the public sector body perform the final debtor, i. e. debtor payments come from its cipant of the transaction and it is not the counterparty of the financial institute which provides the funding. Issue of securities as an altern project. Public Sector Economy | its budget, but the native source of tra | final debtor ansportation |
| There will be spec is not a direct partic 617Y1EV Economic and final | fed such forms of financing in transportation, where the public sector body perform the final debtor, i. e. debtor payments come from its cipant of the transaction and it is not the counterparty of the financial institute which provides the funding. Issue of securities as an altern project. Public Sector Economy Incial theory of public sector, public choice theory, externalites, decisions about public finance allocation, economic assesment of public sectors. | its budget, but the native source of tra | final debtor ansportation 2 MCA, CEA), |
| There will be specis not a direct particle 617Y1EV Economic and final tax system of the C | fed such forms of financing in transportation, where the public sector body perform the final debtor, i. e. debtor payments come from its cipant of the transaction and it is not the counterparty of the financial institute which provides the funding. Issue of securities as an altern project. Public Sector Economy Incial theory of public sector, public choice theory, externalites, decisions about public finance allocation, economic assesment of public R, state budget, management of public projects a their economic efficiency assessment, way of elaboration of PPP projects, funding from | its budget, but the native source of tra KZ lic projects (CBA, I om EU funds, prog | final debtor ansportation 2 MCA, CEA), Iram HDM-4. |
| There will be specis not a direct particle 617Y1EV Economic and final tax system of the C 617Y1LL | fed such forms of financing in transportation, where the public sector body perform the final debtor, i. e. debtor payments come from its cipant of the transaction and it is not the counterparty of the financial institute which provides the funding. Issue of securities as an altern project. Public Sector Economy Incial theory of public sector, public choice theory, externalites, decisions about public finance allocation, economic assesment of public R, state budget, management of public projects a their economic efficiency assessment, way of elaboration of PPP projects, funding from Logistics of Passenger and Freight Air Transport | its budget, but the native source of tra KZ ic projects (CBA, I om EU funds, prog | final debtor ansportation 2 MCA, CEA), Iram HDM-4. |
| There will be specis not a direct particle 617Y1EV Economic and final tax system of the C 617Y1LL | fed such forms of financing in transportation, where the public sector body perform the final debtor, i. e. debtor payments come from its cipant of the transaction and it is not the counterparty of the financial institute which provides the funding. Issue of securities as an altern project. Public Sector Economy Incial theory of public sector, public choice theory, externalites, decisions about public finance allocation, economic assessment of public state budget, management of public projects a their economic efficiency assessment, way of elaboration of PPP projects, funding from Logistics of Passenger and Freight Air Transport seenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transport | its budget, but the native source of tra KZ ic projects (CBA, I om EU funds, prog | final debtor ansportation 2 MCA, CEA), Iram HDM-4. |
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| There will be specis not a direct particle of the Conomic and final tax system of the Conomic airline particle of the Conomic airline | right such forms of financing in transportation, where the public sector body perform the final debtor, i. e. debtor payments come from its part of the transaction and it is not the counterparty of the financial institute which provides the funding. Issue of securities as an altern project. Public Sector Economy Incial theory of public sector, public choice theory, externalites, decisions about public finance allocation, economic assessment of public R, state budget, management of public projects a their economic efficiency assessment, way of elaboration of PPP projects, funding from Logistics of Passenger and Freight Air Transport seenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transport air cargo. Information systems in air transport. Global distribution systems. Maritime Transportation ance of the maritime transportation, theoretical discipline in maritime transportation, seafaring vessels, maritime ports and their utilization. | KZ ic projects (CBA, I om EU funds, progr KZ sport process pass KZ tion, inland logistic | final debtor ansportation 2 MCA, CEA), Iram HDM-4. 2 sengers and 2 c centre and |
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| There will be specis not a direct particle of the conomic and final tax system of the Conomic airline particle of the conomic airline airline particle of the conomic airline | fed such forms of financing in transportation, where the public sector body perform the final debtor, i. e. debtor payments come from its cipant of the transaction and it is not the counterparty of the financial institute which provides the funding. Issue of securities as an altern project. Public Sector Economy Incial theory of public sector, public choice theory, externalites, decisions about public finance allocation, economic assessment of public R, state budget, management of public projects a their economic efficiency assessment, way of elaboration of PPP projects, funding from Logistics of Passenger and Freight Air Transport seenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial transport air cargo. Information systems in air transport. Global distribution systems. Maritime Transportation ance of the maritime transportation, theoretical discipline in maritime transportation, seafaring vessels, maritime ports and their utilization is provided in the properties of maritime transportation, maritime transport. Its in maritime transport. | KZ ic projects (CBA, I om EU funds, progr KZ sport process pass KZ tion, inland logistic itime transportatio | final debtor ansportation 2 MCA, CEA), rram HDM-4. 2 sengers and 2 c centre and on and smart |
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| 618ST | Statics | Z,ZK | 3 |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------|
| • | of forces. Calculation of reactions of mass objects and compound systems. Assessment of internal forces on statically determinate by | • | |
| Principle of Virtual | works. Kinematic method for calculation of reactions of statically determinate systems. Determination of axial forces in truss construction of sections. Geometry of cross sections. Plane fiber polygons and catenary cables. | i, method of joint | s and method |
| 618TTED | Creation of Technical Documentation | KZ | 2 |
| | s, international standardization, types of technical drawings, representation of technical objects, technical diagrams and charts, dimension | onal and geomet | rical accuracy, |
| 0.40\/4.4.14 | arrangement of drawing sheets, types of schemes and their creation. | 1/7 | |
| 618Y1AM | Anatomy, Mobility and Safety of Man Anatomical structure and growth of bones. Articular joint. Remodelling of bone tissue. Anatomical structure of muscles. Blood circulation | KZ | 2 |
| • | of muscular-skeletal system. Injury of human organs and musculo-skeletal system during traffic accidents. Mobility of ill and injured n | | |
| | joint prostheses. Protective means and traffic safety regulations. | | |
| 618Y1D1 | Dynamics of Routes and Vehicles 1 | KZ | 2 |
| Theory and analy | sis of vibration of multimass systems. Dynamical model of vehicle and interaction with transport structure. Assessment of structure vil | oration and allow | able criteria. |
| 618Y1EM | Vibroisolation and absorbers of dynamical effects. Methods of experimental dynamics. FEM in structure dynamics. Experimental Methods in Mechanics | KZ | 2 |
| | role of experimental mechanics. Sensors for mechanical testing. Overview of experimental methods. Destructive and non-destructive | | l . |
| | cedures and sample preparation. Tensile and bending tests. Electrical resistance strain gages. Optical based strain measurement. Fa | - | - |
| | Instrumented hardness testing. Introduction to electron microscopy. Errors in measurement. | | |
| 618Y1MT | Engineering Materials | KZ | 2 |
| • | ew of main classes of materials used in technical design. In addition to main classes of materials, i. e. metals, ceramics, polymers and logical materials and to biomimetics. Integral approach to material selection process is also demonstrated based on so called Ashby's | • | |
| 618Y1PS | Computer Simulations in Mechanics | KZ | 2 |
| Principles and o | overview of programs for stress analysis of structures. Numerical methods in mechanics, finite element method. Geometric model dev | elopment and ad | laptation of |
| geometry from oth | ner CAE systems. Assignment of material properties. The types of elements and their use. Discretization of solid model. Boundary cor | ditions and appl | ication of the |
| C40V4LUZ | load. Basic tasks of structural and modal analysis. Introduction to complex nonlinear problems. | KZ | 2 |
| 618Y1UK Basic characteris | Introduction of Rail Vehicles tics and parameters rail transport systems - railway and urban transport. Basis driving mechanics rail vehicles - equation of motion tra | | 1 |
| | otal running resistance. Acceleration force. Analyzing driving cycle rail vehicle. Speed-power diagrams and characteristics rail vehicle - | | - |
| | and electric drive. Design concept rail vehicles and drive of wheel set. | | I |
| 620SSA | Systems Analysis | Z,ZK | 3 |
| - | ation. Typical tasks of systems analysis: on the interface, routes in system, decomposition and integration, on systems feedback. Capa behaviour, aim behaviour, the genetic code, architecture and identity of systems. Fundamentals of technical cybernetics, stability and | | = |
| 620UIS | Introduction to ITS | Z,ZK | 3 |
| | ort Systems (ITS), their objectives and vision. ITS in the world, in Europe and in the Czech Republic. Architecture of ITS and the role of | , | 1 |
| | stems. ITS in road, rail and combine transport. Design of ITS, organization, preparation and implementation of the project. Current project. | - | |
| 620Y1AE | Applied Electronics | KZ | 2 |
| | semiconductor components, their principles, characteristics and typical connection diagrams. Semiconductor PN junction diodes, tran ogic gates. Functions of basic electronic circuits and methods for their designs (rectifiers, voltage regulator with Zener diode, transisto | | • |
| ap | amplifier as an inverting and noninverting amplifier). | . ao an ampinio | , oporanoria. |
| 620Y1EA | Environmental Aspects of Transport | KZ | 2 |
| | phere, weather observation network, weather in transportation, road meteorology. Weather forecasting, data assimilation, probabilistic | | |
| 620Y1EK | n pollutants and their effects, atmospheric chemistry, traffic emissions. Greenhouse gasses, carbon cycle, a role of energy and transp | ortation in climat | e change. |
| | Qualification in Electrical Engineering ce with measurements in laboratories, electrical equipment, power supply, electrical installation of low voltage, electric shock hazard, | | 1 |
| | allowed currents, electrical equipment protection against short circuit and overload protection, control and revision, first aid, legislation | - | - |
| | in relation to health and safety and electrical engineering. | | |
| 620Y1LN | Location and Navigation | KZ | 2 |
| Description and | examples of road networks, localization on the network. Routing algorithms, their properties and implementation. Description and exa transport connections, routing algorithms, their properties and implementation. | mples of dataset | s for finding |
| 620Y1OI | Fare Collection and Information Systems | KZ | 2 |
| | ystems in public transport and their components (on-board units, validators, turnstiles,). Information systems and their components | | |
| | nels) and operators (cycles, location or current delay of vehicles,). The issue of tariff systems. Other examples of clearance systems. | | |
| 620Y1PK | Product Quality Management Processes | KZ | 2 A framework |
| | of organization management. Management systems and international standards; quality management systems. Quality products, pro- stems management, management principles. Principles of process management, monitoring and measurement systems management. U | = | |
| 0.010.100.00 | for systems management. Process management principles. Metrology and testing. Product certification. | | . Or otariaarao |
| 620Y1SC | Sensors and Actuators | KZ | 2 |
| Principles of senso | rs and actuators. Basics of measuring theory and actuating influence. The respective technologies and construction principles. Sensors of | | ctro-magnetic, |
| 6041414 ENI | state (temperature, humidity), chemical and particle flow values. Electrical, pneumatic and hydraulic actuators and solid phase ele | | A |
| 621W1FN Introduction. The s | Factors Affecting the Rate of Accidents in Aviation cope of international and national organizations in civil aviation. The scope of the investigation organizations within the state and inter | KZ | 4 tees. Analysis |
| | on of ICAO Annexes 13 and 19. Analysis and interpretation of the Regulation (EC), Regulation (EU). Human factor. Utilization of inform | | - |
| | reports. | | - |
| 621W1LR | Radio Technology in Aviation | KZ | 4 |
| Electric signals a | nd the wave spectrum. Analog and digital modulations. Noises. Filters. Resonance circuits. Electromagnetic field. Electromagnetic wav in aviation, radiation and reception of electromagnetic field. Antennas in aviation, receivers and transmitters. | e propagation. V | Vave ranges |
| 621W1MZ | Managerial Ethics | KZ | 4 |
| | popy of managerial ethics. Basics of etiquette and rules of social contact. Social events. Etiquette of working contacts. The art of presenta | | 1 |
| The basic terminor | ogy or managerial cames basics of suquelle and raise of coolar contact books over the large of the art of processing | | |

| | | | 4 |
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| 621W1OL | Security of Air Transport | KZ | |
| The development | of civil aviation. Definitions and regulations. History of acts of unlawful interference. Terrorism in aviation. National security program. Cr at airports - operational procedures. Modern means of protection and control. | isis managemer | nt. Protection |
| C04W4D7 | | 1/7 | T 4 |
| 621W1RZ | Human Resources Management Human Resources Management Human resources in the organization and related disciplines file. Substance, importance and challenges of human resources manager | KZ | d external |
| = | nan resource management. Human resource planning. Search, recruitment and selection of employees. Motivation, evaluation and rem | | |
| | dismissal and redundancies of employees. Education of employees. Planning career management. | u | |
| 621W1TH | Aircraft Technical Handling | KZ | 4 |
| | and pushing tractors. GPU. Air conditioning and heating units. Aircraft fuel equipment. De-acing and anti-icing units. Loading and unloa | | pment for |
| pa | ssangers onboarding and offboarding. Operational processes of aircraft technical handling and regulations. Modernization and technical | cal progress. | |
| 621W1UT | Airports Maintenance | KZ | 4 |
| Summer airport ma | intenance. Summer maintenance equipment. Winter airport maintenance. Winter maintenance equipment. De-icing / anti-icing of aircr | aft. De-icing / an | ti-icing liquid |
| | Operating procedures, limitations, practices. | | _ |
| 621W1ZA | Basics of Aerobatics | KZ | 4 |
| he history, develor | oment and aerobatics in present, aerodynamics and mechanics of flight during marginal flight modes, piloting technique of individual elen | - | n aerobatic |
| | aerobatics programs, preparation for practicing aerobatics and safety training, competitive psychology and concentration on perfor | | |
| 621Y1FN | Factors Affecting the Rate of Accidents in Aviation | KZ | 2 |
| | cope of international and national organizations in civil aviation. The scope of the investigation organisations within the state and international forms and the scope of the investigation organisations within the state and international forms. | | - |
| and interpretation | n of ICAO Annexes 13 and 19. Analysis and interpretation of the Regulation (EC), Regulation (EU). Human factor. Utilization of inform reports. | ation from the in | vestigation |
| 621Y1LR | · | KZ | 2 |
| | Radio Technology in Aviation the wave spectrum. Analog and digital modulations. Noises. Filters. Resonance circuits. Electromagnetic field. Electromagnetic wav | | |
| =.oou to signals at | in aviation, radiation and reception of electromagnetic field. Antennas in aviation, receivers and transmitters. | o propagation. V | .a.o ranges |
| 621Y1MZ | Managerial Ethics | KZ | 2 |
| | pgy of managerial ethics. Basics of etiquette and rules of social contact. Social events. Etiquette of working contacts. The art of presenta | | _ |
| | image. Diplomatic protocol. Managerial ethics. Business ethics. | - 3 - 112 | |
| 621Y1OL | Security of Air Transport | KZ | 2 |
| | of civil aviation. Definitions and regulations. History of acts of unlawful interference. Terrorism in aviation. National security program. Cr | | 1 |
| | at airports - operational procedures. Modern means of protection and control. | | |
| 621Y1RZ | Human Resources Management | KZ | 2 |
| The position of I | human resources in the organization and related disciplines file. Substance, importance and challenges of human resources manager | ment. Internal an | d external |
| nvironment of hun | nan resource management. Human resource planning. Search, recruitment and selection of employees. Motivation, evaluation and rem | uneration of staf | f. Positionin |
| | dismissal and redundancies of employees. Education of employees. Planning career management. | | |
| | distinction and readment of employees. Education of employees in talking education and education of employees. | | |
| 621Y1TH | Aircraft Technical Handling | KZ | 2 |
| Aircraft towing | Aircraft Technical Handling and pushing tractors. GPU. Air conditioning and heating units. Aircraft fuel equipment. De-acing and anti-icing units. Loading and unloa | ading units. Equi | 1 |
| Aircraft towing a | Aircraft Technical Handling and pushing tractors. GPU. Air conditioning and heating units. Aircraft fuel equipment. De-acing and anti-icing units. Loading and unload sangers onboarding and offboarding. Operational processes of aircraft technical handling and regulations. Modernization and technical handling and regulations. | ading units. Equi cal progress. | pment for |
| Aircraft towing a | Aircraft Technical Handling and pushing tractors. GPU. Air conditioning and heating units. Aircraft fuel equipment. De-acing and anti-icing units. Loading and unload sangers onboarding and offboarding. Operational processes of aircraft technical handling and regulations. Modernization and technical handling and regulations. Modernization and technical handling and regulations. | ading units. Equi cal progress. KZ | pment for |
| Aircraft towing a | Aircraft Technical Handling and pushing tractors. GPU. Air conditioning and heating units. Aircraft fuel equipment. De-acing and anti-icing units. Loading and unload issangers onboarding and offboarding. Operational processes of aircraft technical handling and regulations. Modernization and technical handling and anti-icing and anti-icing and unload issangers on boarding and anti-icing and unload issangers on boarding and anti-icing and unload issangers on boarding and anti-icing units. Loading and unload issangers on boarding and anti-icing units. Aircraft fuel equipment. De-acing and anti-icing units. Loading and unload issangers on boarding and officers of aircraft technical handling and regulations. Modernization and technical handling and regulations. | ading units. Equi cal progress. KZ | pment for |
| Aircraft towing : pa 621Y1UT Summer airport ma | Aircraft Technical Handling and pushing tractors. GPU. Air conditioning and heating units. Aircraft fuel equipment. De-acing and anti-icing units. Loading and unload issangers onboarding and offboarding. Operational processes of aircraft technical handling and regulations. Modernization and technical handling and anti-icing units. Loading and unload issued in the control of t | ading units. Equi cal progress. KZ aft. De-icing / an | pment for 2 ti-icing liquid |
| Aircraft towing a pa 621Y1UT Summer airport ma 621Y1ZA | Aircraft Technical Handling and pushing tractors. GPU. Air conditioning and heating units. Aircraft fuel equipment. De-acing and anti-icing units. Loading and unload issangers onboarding and offboarding. Operational processes of aircraft technical handling and regulations. Modernization and technical handling and reg | ading units. Equical progress. KZ aft. De-icing / an | pment for 2 ti-icing liquid |
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| Aircraft towing a pa 621Y1UT Summer airport ma 621Y1ZA The history, develop | Aircraft Technical Handling and pushing tractors. GPU. Air conditioning and heating units. Aircraft fuel equipment. De-acing and anti-icing units. Loading and unload issangers onboarding and offboarding. Operational processes of aircraft technical handling and regulations. Modernization and technical handling and reg | ading units. Equical progress. KZ aft. De-icing / an KZ nents, competition | pment for 2 ti-icing liquid 2 on aerobatic |
| Aircraft towing a pa 621Y1UT Summer airport ma 621Y1ZA The history, develop 621ZLD | Aircraft Technical Handling and pushing tractors. GPU. Air conditioning and heating units. Aircraft fuel equipment. De-acing and anti-icing units. Loading and unload issangers onboarding and offboarding. Operational processes of aircraft technical handling and regulations. Modernization and technical handling and reg | ading units. Equical progress. KZ aft. De-icing / an KZ nents, competition mance. KZ | pment for 2 ti-icing liquid 2 on aerobatic |
| Aircraft towing a pa 621Y1UT Summer airport ma 621Y1ZA The history, develop 621ZLD | Aircraft Technical Handling and pushing tractors. GPU. Air conditioning and heating units. Aircraft fuel equipment. De-acing and anti-icing units. Loading and unload issangers onboarding and offboarding. Operational processes of aircraft technical handling and regulations. Modernization and unload technical handling and regulations. Modernization and technical handling and regulations. Modernization | ading units. Equical progress. KZ aft. De-icing / an KZ nents, competition mance. KZ | pment for 2 ti-icing liquid 2 n aerobatics |
| Aircraft towing a pa 621Y1UT Summer airport ma 621Y1ZA The history, develop 621ZLD Air transport as a | Aircraft Technical Handling and pushing tractors. GPU. Air conditioning and heating units. Aircraft fuel equipment. De-acing and anti-icing units. Loading and unload issangers onboarding and offboarding. Operational processes of aircraft technical handling and regulations. Modernization and technical handling and regulations in Europe and unload technical status of civil aviation. International organizations in Europe and worldwide. Chapter is a component of complex transport system. International status of civil aviation. International organizations in Europe and worldwide. Chapter is a component of a component of a component or deposition in Europe and worldwide. Chapter is a component of a component or deposition in Europe and worldwide. Chapter is a component or deposition in Europe and worldwide. Chapter is a component or deposition in Europe and worldwide. Chapter is a component or deposition in Europe and worldwide. Chapter is a component or deposition in Europe and worldwide. Chapter is a component or deposition in Europe and worldwide. Chapter is a component or deposition in Europe and worldwide. Chapter is a component or deposition in Europe and worldwide. Chapter is a component or deposition in Europe and worldwide. Chapter is a component or deposition in Europe and worldwide. Chapter is a component or deposition in Europe and worldwide. Chapter is a component or deposition in Europe and worldwide. Chapter is a component or deposition in Europe and worldwide. Chapter is a component or deposition in Europe and worldwide. Chapter is a component or deposition in Europe and worldw | ading units. Equical progress. KZ aft. De-icing / an KZ nents, competition mance. KZ aracteristics of a | pment for 2 ti-icing liquid 2 on aerobatics 2 dir transport. |
| Aircraft towing a pa 621Y1UT Summer airport ma 621Y1ZA The history, develop 621ZLD Air transport as a | Aircraft Technical Handling and pushing tractors. GPU. Air conditioning and heating units. Aircraft fuel equipment. De-acing and anti-icing units. Loading and unload issangers onboarding and offboarding. Operational processes of aircraft technical handling and regulations. Modernization and technical handling and regulations in Europe and technical generation for practicing and technical handling and regulations in Europe and worldwide. Chapter is a proposed in the proposed proposed in the proposed pro | ading units. Equical progress. KZ aft. De-icing / an KZ nents, competition mance. KZ aracteristics of a | 2 tti-icing liquid 2 on aerobatic 2 air transport. |
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| Aircraft towing a pa 621Y1UT Summer airport ma 621Y1ZA The history, develop 621ZLD Air transport as a 622UN 622X31 622X32 622X33 | Aircraft Technical Handling and pushing tractors. GPU. Air conditioning and heating units. Aircraft fuel equipment. De-acing and anti-icing units. Loading and unloss assangers onboarding and offboarding. Operational processes of aircraft technical handling and regulations. Modernization and technical handles and regulations. Modernization and technical handles are dependent and regulations. De-icing / anti-icing of aircraft fuel equipment. De-acing and technical operations, manufacture and technical periodical fuel fuel fuel fuel fuel fuel fuel fue | ading units. Equi cal progress. KZ aft. De-icing / an KZ nents, competition mance. KZ aracteristics of a Z Z Z Z | 2 ti-icing liquid 2 n aerobatic 2 print transport 2 2 2 2 2 2 |
| Aircraft towing a pa 621Y1UT Summer airport ma 621Y1ZA The history, develop 621ZLD Air transport as a 622UN 622X31 622X32 622X33 622Y1SZ | Aircraft Technical Handling and pushing tractors. GPU. Air conditioning and heating units. Aircraft fuel equipment. De-acing and anti-icing units. Loading and unloc issangers onboarding and offboarding. Operational processes of aircraft technical handling and regulations. Modernization and technic Airports Maintenance aintenance. Summer maintenance equipment. Winter airport maintenance. Winter maintenance equipment. De-icing / anti-icing of aircraft procedures, limitations, practices. Basics of Aerobatics Dement and aerobatics in present, aerodynamics and mechanics of flight during marginal flight modes, piloting technique of individual elem aerobatics programs, preparation for practicing aerobatics and safety training, competitive psychology and concentration on performation to Air Transport Component of complex transport system. International status of civil aviation. International organizations in Europe and worldwide. Change of the component of transport system. International status of civil aviation. International organizations in Europe and worldwide. Change of the component of the com | ading units. Equi cal progress. KZ aft. De-icing / an KZ ments, competition mance. KZ aracteristics of a Z Z KZ KZ | 2 ti-icing liquid 2 n aerobatic 2 2 2 2 2 2 |
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