Study plan

Name of study plan: KOMBI navaz. mag. studium v 22-23 programu LA

Faculty/Institute/Others: Department: Branch of study guaranteed by the department: Welcome page Garantor of the study branch: Program of study: Logistics and Transport Processes Control Type of study: Follow-up master combined Required credits: 120 Elective courses credits: 0 Sum of credits in the plan: 120 Note on the plan:

Name of the block: Compulsory courses Minimal number of credits of the block: 103 The role of the block: Z

Code of the group: 1S K LA 22-23 P Name of the group: 1.sem.navaz.mag. KOMBI programu LA 22-23 povinné p edm ty Requirement credits in the group: In this group you have to gain 28 credits Requirement courses in the group: In this group you have to complete 9 courses Credits in the group: 28 Note on the group:

| Note on the gr | oup. | | | | | |
|----------------|--|------------|---------|-----------|----------|------|
| 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 |
| 611LIP2 | Linear Programming 2 Pavla Pecherková, Jozef Nagy Pavla Pecherková (Gar.) | Z,ZK | 3 | 2P+1C+10B | Z | Z |
| 611TER | Game Theory and Optimal Decision-Making Magdalena Hykšová Magdalena Hykšová (Gar.) | ZK | 2 | 2P+0C+8B | Z | Z |
| 617LSC | Logistics in Smart Cities Eliška Glaserová Tomáš Horák (Gar.) | Z,ZK | 6 | 2P+2C+14B | Z | Z |
| 617TZNK | Technology of Railway Transport Michal Drábek Vít Janoš (Gar.) | Z,ZK | 5 | 12B | Z | Z |
| 617TZOK | Inventory, Replacement and Scheduling Theory Dušan Teichmann Dušan Teichmann (Gar.) | Z,ZK | 4 | 10B | Z | Z |
| 614GISS | Geographical Information Systems Zuzana Purkrábková, František Kekula | KZ | 2 | 0P+2C+8B | Z | Z |
| 617MADS | Management of Transport Systems Roman Št rba Roman Št rba (Gar.) | KZ | 2 | 2P+0C+8B | Z | Z |
| 617TSI | Technology of Road Transport Michal Drábek Michal Drábek (Gar.) | KZ | 2 | 2P+0C+8B | Z | Z |
| 615J2A1 | Language - English 1 V ra Pastorková | Z | 2 | 0P+2C+10B | Z | Z |

Characteristics of the courses of this group of Study Plan: Code=1S K LA 22-23 P Name=1.sem.navaz.mag. KOMBI programu LA 22-23 povinné p edm ty

| 611LIP2 | Linear Programming 2 | Z,ZK | 3 | | | | |
|--|---|--------------------|---------------------|--|--|--|--|
| Formulation of the task | of integer programming, branch and bound method of numerical solution, problems about knapsack, travelling salesman, sets | location of stores | and post boxes, | | | | |
| tasks of scheduling, her | asks of scheduling, heuristics, metaheuristics - genetic algorithms, ant colony optimization. | | | | | | |
| 611TER | Game Theory and Optimal Decision-Making | ZK | 2 | | | | |
| Decision-making theory, utility theory. Explicit form games, backward induction. Normal form games. Antagonistic conflict, matrix games. Repeated games, evolutionary game theory. | | | | | | | |
| Cooperative games with | nout transferable payoffs. Cooperative games with transferable payoffs (imputation, core, Shapley value, nucleolus). Applicati | ons of game theo | ry above all in | | | | |
| economics and transpo | rtation. | | | | | | |
| 617LSC | Logistics in Smart Cities | Z,ZK | 6 | | | | |
| Development of cities ir | time, city and region, mobility of city residents and movement of goods, sustainability as a concept, Smart Cities, city as a s | ystem and its con | ponents, quality | | | | |
| of life, individual quality | of life, city "smartness" assessment, legislation in Smart Cities, Smart Cities transformation, last mile logistics, e-commerce, ne | w approaches in la | ast mile logistics, | | | | |
| last mile logisitcs in citie | as and in regions. | | | | | | |
| 617TZNK | Technology of Railway Transport | Z,ZK | 5 | | | | |
| Track line capacity asse | Track line capacity assesment, model operational situation with a system running time between IPT-nodes, calculation of traction energy savings compared with infrastructure costs | | | | | | |
| for designing of fleeting | or designing of fleeting crossing station, solving of capacity problem and blocking time in relation to train protection system, robustness of timetable, system concept of freight train | | | | | | |
| paths, guidelines for ce | ntralised operational traffic control and management | | | | | | |

| 617TZOK Inventory, Replacement and Scheduling Theory | Z,ZK | 4 | | | | |
|---|---|------------------|--|--|--|--|
| Inventory theory - introduction, static models, deterministic dynamic models, stochastic dynamic models Replacement theory - introduction, models | for replacement o | f items that | | | | |
| deteriorate with time, models for replacement of items that fail completely Scheduling theory - introduction, single machine scheduling problems, para | llel machine sche | duling problems, | | | | |
| flow shop scheduling problems and job shop scheduling problems | w shop scheduling problems and job shop scheduling problems | | | | | |
| 614GISS Geographical Information Systems | KZ | 2 | | | | |
| Construction of saving format of space-oriented information land-survey and cartography minimum basic tasks of spatial operations principles of territorial identification | | | | | | |
| 617MADS Management of Transport Systems | KZ | 2 | | | | |
| Functions, processes and systems of management in transport, organisational structures, strategy, social responsibility, soft skills. | | | | | | |
| 617TSI Technology of Road Transport | KZ | 2 | | | | |
| Legislative, operational, technical, logistic and safety conditions of road transport, basic transport technologies, special transport, international agree | ments, requireme | ents on the | | | | |
| parameters and specialization of transport, handling and loading/unloading means, maintenance, service and repairs of road vehicles, safety of road | transport and ch | oice of optimal | | | | |
| transport unit. | | | | | | |
| 615J2A1 Language - English 1 | Z | 2 | | | | |
| Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative sk | ills, feedback skill | s, summarising | | | | |
| echnical text content, structuring presentations and meeting minutes, elementary rhetorics of English and practical application, formal and technical registers and their use, language | | | | | | |
| of management. | | | | | | |

Code of the group: 2S K LA 22-23 P

Name of the group: 2.sem.navaz.mag. KOMBI programu LA 22-23 povinné p edm ty Requirement credits in the group: In this group you have to gain 25 credits Requirement courses in the group: In this group you have to complete 8 courses Credits in the group: 25 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 |
|---------|--|------------|---------|-----------|----------|------|
| 611THRO | Queuing Theory Šárka Vorá ová Šárka Vorá ová (Gar.) | ZK | 2 | 2P+0C+8B | 6 L | Z |
| 617KMDK | Quantitative Methods in Transport Dušan Teichmann, Denisa Mocková Denisa Mocková (Gar.) | Z,ZK | 7 | 14B | L | Z |
| 617MID | Managerial Information Systems in Transport Václav Baroch Václav Baroch (Gar.) | Z,ZK | 3 | 2P+1C+10B | L | Z |
| 617RKOP | Management of commercial projects in transport Alexandra Dvo á ková | Z,ZK | 3 | 2P+1C+10B | L | Z |
| 614BIG | Big Data Ond ej Smíšek | KZ | 2 | 0P+2C+8B | L | Z |
| 614TEL | Telecommunications Tomáš Zelinka Tomáš Zelinka (Gar.) | KZ | 3 | 2P+1C+10B | L | Z |
| 617DOCH | Travel Behavior Milan K íž Milan K íž (Gar.) | KZ | 3 | 3P+0C+10B | L | Z |
| 615JBA2 | Language - English 2 V ra Pastorková, Jan Feit | Z | 2 | 0P+2C+10B | L | Z |

Characteristics of the courses of this group of Study Plan: Code=2S K LA 22-23 P Name=2.sem.navaz.mag. KOMBI programu LA 22-23 povinné p edm ty

| 611THRO Queuing Theory | ZK | 2 | | | | | |
|--|-----------------------|-------------------|--|--|--|--|--|
| Discrete event process, definition, random distribution, and probability. Basic processes, process of revitalisation. Markov process, Markov models, Ke | andall classification | on, model M/M/1, | | | | | |
| models M/M/n. Non-markovian models, model M/C/n, models G/G/n. Models with continuous flow. Service net, examples of Petri net. Computer simulation. | | | | | | | |
| 617KMDK Quantitative Methods in Transport | Z,ZK | 7 | | | | | |
| The course focuses on the issue of the use of undirected graphs tree type, planar graphs and their coloring. Further distribution problems, facility loca | ation problems are | e formulated and | | | | | |
| solved such as models of integer linear programming. Besides the use of exact methods there are described simple and also more sofisticated heuri | istics (metaheuris | tics) methods. | | | | | |
| 617MID Managerial Information Systems in Transport | Z,ZK | 3 | | | | | |
| IT and their use in building IS of modern transport company. New EU legislation on cyber security and data protection puts transport organizations in | front of new cha | llenges. The | | | | | |
| course focuses on the security of IS and possible sources of danger. The practical part deals with the process of building a new IS from the idea throu | ugh the timetable | and the financial | | | | | |
| budget, the basic documents for the possible assignment of the contract. | | | | | | | |
| 617RKOP Management of commercial projects in transport | Z,ZK | 3 | | | | | |
| Business project (customer, activities, output - quality, time, money), project surroundings, location of the project (area analysis, traffic flows, authoriz | zation procedure) | , organizational | | | | | |
| structure of the project, sources of financing, customer-supplier relations, feasibility studies, sensitivity and multi-criteria analysis, financial and value | analysis, manag | ement of project | | | | | |
| changes. | | | | | | | |
| 614BIG Big Data | KZ | 2 | | | | | |
| Principle of MapReduce, Basic Principles of Big Data Management, Comparison and Classification of NoSQL Databases, Key Database Value Database | se, Column Datab | ases, Document | | | | | |
| Databases, Graph Databases-Basic Principles, Graph Databases-Advanced Aspects, Indexing, Interpretation, Advanced Principles Big Data Manage | ement, NewSQL I | Database, Cloud | | | | | |
| computing, Data warehouses and Big Data, Cloud computing, Data warehouses and Big Data, Other Big Data issues | | | | | | | |
| 614TEL Telecommunications | KZ | 3 | | | | | |
| Status quo and new trends in telecommunications systems. economical and legal aspects of telecommunications networks design and telecommunications services provissioning, | | | | | | | |
| identification and quantification of hyererchical telecommunications networks and telecommunicatuon services performance based on addopted performan | ice parameters, te | lecommunication | | | | | |
| services typically applied within transport and specifically logistic solutions. | | | | | | | |

617DOCH Travel Behavior KZ 3 Investigation of causal effects in travel behavior research (quasi-experimental and experimental approaches). Data collection (theory of measurement; design of research instrument and data collection). Analysis and interpretation of data (advanced regression models; issues of analysis and interpretation of results: effect size, practical vs. statistical significance). Analysis and interpret of data (surveys, choice exp., panel. data). 615JBA2 Language - English 2 Z 2 Grammatical Structures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of English and practical application, formal and technical registers and their use, language of management.

Code of the group: 3S K LA 23-24 P

Name of the group: 3.sem.navaz.mag. KOMBI programu LA 23-24 povinné p edm ty Requirement credits in the group: In this group you have to gain 22 credits Requirement courses in the group: In this group you have to complete 6 courses Credits in the group: 22 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 |
|---------|--|------------|---------|-----------|----------|------|
| 611STS | Stochastic Systems Pavla Pecherková Evženie Uglickich (Gar.) | Z,ZK | 4 | 2P+2C+14B | Z | Z |
| 617DOPM | Transportation Planning and Modeling Milan K íž | Z,ZK | 6 | 2P+2C+14B | Z | Z |
| 617PPC | Carriage Processes Roman St rba Roman Št rba (Gar.) | ZK | 3 | 2P+0C+10B | Z | Z |
| 617RVIP | Public project management in transport Alexandra Dvo á ková Olga Mertlová (Gar.) | Z,ZK | 5 | 2P+2C+14B | Z | Z |
| 617AMAK | Aplication of marketing tools in transport industry Alexandra Dvo á ková | KZ | 2 | 10B | Z | Z |
| 615JBA3 | Language - English 3 V ra Pastorková | Z | 2 | 0P+2C+10B | Z | Z |

Characteristics of the courses of this group of Study Plan: Code=3S K LA 23-24 P Name=3.sem.navaz.mag. KOMBI programu LA 23-24 povinné p edm tv

| povinine p cum | ·y | | |
|--------------------------|--|----------------------|--------------------|
| 611STS | Stochastic Systems | Z,ZK | 4 |
| The subject deals with | n the problems of mathematical modelling of dynamical systems, estimation od these models and their utilization for prediction. | . The results are il | llustrated on |
| practical transportation | n tasks. Mathematical theory roots from probability and mathematical statistics and they use the methods of the Bayesian prob | abilistic approact | า. |
| 617DOPM | Transportation Planning and Modeling | Z,ZK | 6 |
| Basic steps and tools | used within four step model (trip generation, trip distribution, mode choice and trip distribution). Mobility and availability in urba | in areas, land use | . New trends for |
| transportation plannin | g and modelling. | | |
| 617PPC | Carriage Processes | ZK | 3 |
| Domestic carriages, in | ternational carriages, nomenclature of goods, pricing, contracting, responsibility for damages. | | 1 |
| 617RVIP | Public project management in transport | Z,ZK | 5 |
| Basic concepts of pro | ect management in the public sector, used procedures and standards of project management, organizational structure in projec | t management in t | the public sector, |
| project and pre-project | t preparation in transport and transport infrastructure and their specifics, feasibility study and CBA, project evaluation. | | |
| 617AMAK | Aplication of marketing tools in transport industry | KZ | 2 |
| Strategic marketing p | ans, Implementation of marketing campaigns, Branding and brand promotion, Multimedia presentations, Direct marketing and r | elated lead gener | ation campaigns |
| 615JBA3 | Language - English 3 | Z | 2 |
| Grammatical structure | es and style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skil | lls, feedback skills | s, summarising |
| technical text content | structuring presentations and meeting minutes, elementary rhetorics of English and practical application, formal and technical | registers and the | ir use, language |
| of management | | | |

Code of the group: 4S K LA 23-24 P

Name of the group: 4.sem.navaz.mag. KOMBI programu LA 23-24 povinný p edm t 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:

| | 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 |
|---------|--|------------|---------|-----------|----------|------|
| 615JBA4 | Language - English 4 V ra Pastorková, Jan Feit | ZK | 2 | 0P+2C+10B | L | Z |

Characteristics of the courses of this group of Study Plan: Code=4S K LA 23-24 P Name=4.sem.navaz.mag. KOMBI programu LA 23-24 povinný p edm t

615JBA4

A4 Language - English 4

Grammatical structures and style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, feedback skills, summarising technical text content, structuring presentations and meeting minutes, elementary rhetorics of English and practical application, formal and technical registers and their use, language of management.

7K

2

Code of the group: DP N LA K 21-22 Name of the group: Diplomová práce nav.mag.programu LA komb.(od) 21/22 Requirement credits in the group: In this group you have to gain 18 credits Requirement courses in the group: In this group you have to complete 1 course Credits in the group: 18

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 |
|---------|--|------------|---------|------------|----------|------|
| 611XNDM | Master Thesis for study programme LA | Z | 18 | 0P+20C+70B | L | Z |
| 612XNDM | Master Thesis for study programme LA | Z | 18 | 0P+20C+70B | L | Z |
| 614XNDM | Master Thesis for study programme LA | Z | 18 | 0P+20C+70B | L | Z |
| 615XNDM | Master Thesis for study programme LA | Z | 18 | 0P+20C+70B | L | Z |
| 616XNDM | Master Thesis for study programme LA | Z | 18 | 0P+20C+70B | L | Z |
| 617XNDM | Master Thesis for study programme LA Tomáš Horák, Dušan Teichmann, Roman Št rba, Václav Baroch, Daniel Pilát, Ji í Pospíšil | Z | 18 | 0P+20C+70B | L | Z |
| 618XNDM | Master Thesis for study programme LA | Z | 18 | 0P+20C+70B | 5 L | Z |
| 620XNDM | Master Thesis for study programme LA | Z | 18 | 0P+20C+70B | L | Z |
| 621XNDM | Master Thesis for study programme LA | Z | 18 | 0P+20C+70B | L | Z |
| 622XNDM | Master Thesis for study programme LA | Z | 18 | 0P+20C+70B | L | Z |
| 623XNDM | Master Thesis for study programme LA | Z | 18 | 0P+20C+70B | L | Z |

Characteristics of the courses of this group of Study Plan: Code=DP N LA K 21-22 Name=Diplomová práce nav.mag.programu LA komb.(od) 21/22

| Master Thesis for study programme LA | Z | 18 |
|--------------------------------------|---|--|
| Master Thesis for study programme LA | Z | 18 |
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| Master Thesis for study programme LA | Z | 18 |
| | Master Thesis for study programme LA Master Thesis for study programme LA | Master Thesis for study programme LAZMaster Thesis for study programme LAZ |

Code of the group: SDP N LA K 21-22

Name of the group: Seminá k dip.práci nav.mag.programu LA komb.(od) 21/22 Requirement credits in the group: In this group you have to gain 8 credits Requirement courses in the group: In this group you have to complete 1 course Credits in the group: 8

Note on the group: Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their Code Completion Credits Scope Semester Role members) Tutors, authors and guarantors (gar.) 611XN4K Ζ 8B L 8 Ζ **Seminar for Diploma Thesis** 612XN4K Ζ 8 8B L 7 **Seminar for Diploma Thesis** 7 614XN4K 8 8B L 7 Seminar for Diploma Thesis Ζ L 615XN4K 8 8B Seminar for Diploma Thesis Ζ 616XN4K Ζ 8 8B L Seminar for Diploma Thesis Ζ Seminar for Diploma Thesis 617XN4K Ζ 8 8B L Ζ Tomáš Horák, Daniel Pilát

| 618XN4K | Seminar for Diploma Thesis | Z | 8 | 8B | L | Z |
|---------|---|---|---|----|---|---|
| 620XN4K | Seminar for Diploma Thesis | Z | 8 | 8B | L | Z |
| 621XN4K | Seminar for Diploma Thesis | Z | 8 | 8B | L | Z |
| 622XN4K | Seminar for Diploma Thesis | Z | 8 | 8B | L | Z |
| 623XN4K | Seminar for Diploma Thesis [¨] | Z | 8 | 8B | L | Z |

Characteristics of the courses of this group of Study Plan: Code=SDP N LA K 21-22 Name=Seminá k dip.práci nav.mag.programu LA komb.(od) 21/22

| 611XN4K | Seminar for Diploma Thesis | Z | 8 |
|---------|-----------------------------|---|---|
| 612XN4K | Seminar for Diploma Thesis | Z | 8 |
| 614XN4K | Seminar for Diploma Thesis | Z | 8 |
| 615XN4K | Seminar for Diploma Thesis | Z | 8 |
| 616XN4K | Seminar for Diploma Thesis | Z | 8 |
| 617XN4K | Seminar for Diploma Thesis | Z | 8 |
| 618XN4K | Seminar for Diploma Thesis | Z | 8 |
| 620XN4K | Seminar for Diploma Thesis | Z | 8 |
| 621XN4K | Seminar for Diploma Thesis | Z | 8 |
| 622XN4K | Seminar for Diploma Thesis | Z | 8 |
| 623XN4K | Seminar for Diploma Thesis" | Z | 8 |

Name of the block: Compulsory elective courses Minimal number of credits of the block: 9 The role of the block: PV

Code of the group: PVP NAV K LA 22-23 Name of the group: PVP nav.komb.LA 22-23 (program LA, nikoliv obor LA) Requirement credits in the group: In this group you have to gain 9 credits Requirement courses in the group: In this group you have to complete 3 courses Credits in the group: 9

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 |
|---------|--|------------|---------|-------|----------|------|
| 617W2AM | Application of Marketing Tools in Transportation | KZ | 3 | 8B | L | PV |
| 621W2CR | CRM | KZ | 3 | 8B | L | PV |
| 617W2FM | Financing in Urban Mass Transportation | KZ | 3 | 8B | Z | PV |
| 621W2FM | Aviation Company Financial Management Radoslav Zozu ák | KZ | 3 | 8B | Z | PV |
| 615W2HS | Road Transport History | KZ | 3 | 8B | L | PV |
| 614W2KI | Capital Investment in Transportation and Telecommunications | KZ | 3 | 8B | L | PV |
| 621W2LS | Air Traffic Services | KZ | 3 | 8B | L | PV |
| 615W2MS | Sociology for Managers | KZ | 3 | 8B | Z | PV |
| 621W2MC | CNS Systems Modelling Stanislav Pleninger | KZ | 3 | 8B | Z | PV |
| 615W2OZ | Health Protection in Transportation and EU Petr Musil | KZ | 3 | 8B | Z | PV |
| 615W2PT | Food in Transportation Petr Musil | KZ | 3 | 8B | L | PV |
| 621W2PP | Law and Operation in Air Transport | KZ | 3 | 8B | L | PV |
| 621W2PL | Operational Aspects of Aerodromes | KZ | 3 | 8B | Z | PV |
| 617W2RZ | Control of Transport Processes | KZ | 3 | 8B | Z | PV |
| 615W2SR | Stylistics and Rhetorics | KZ | 3 | 8B | Z | PV |
| 615W2TS | Technician and Contemporary Society | KZ | 3 | 8B | L | PV |

Characteristics of the courses of this group of Study Plan: Code=PVP NAV K LA 22-23 Name=PVP nav.komb.LA 22-23 (program LA, nikoliv obor LA)

| 617W2AM | Application of Marketing Tools in Transportation | KZ | 3 | | | |
|-------------------------|---|--------------------|----------|--|--|--|
| Application of marketin | g principles in transport issues, marketing tools suitable for transport, case studies of the use of marketing in the sphere of pu | ublic passenger tr | ansport. | | | |
| 621W2CR | CRM | KZ | 3 | | | |
| Introduction to CRM. A | Introduction to CRM. Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the human body. Fatigue Sleep & amp; | | | | | |
| Vigilance Information F | Processing Situational Awareness Workload Management Decision Making Communication Leadership & amo: Team Behav | viour Automation | | | | |

| UAT bioxy and development in Prague and other cities in the world. Building and operation of public tram, bus, and trolleybus networks. Underground building and operation. Other inspection and blind passengers, Tourism & amp; UMT. UMT typology & amp; choice of optimum financing. KZ 3 621W2FM Aviation Company Financial Management Thories of corporate finance. Trianacial statements, budget, forecast. Financial policy of the company. Financial resources - long-term financial resources, depreciation, retained earnings, shares, bonds, icans, leasing, capital. Financial and economic analysis of the company. Financial resources - long-term financial resources, depreciation, retained earnings, shares, bonds, leasing, capital. Financial and economic analysis of the company. Financial resources - long-term financial resources, depreciation, retained earnings, shares, bonds, leans, leasing, capital. Financial and economic analysis of the company. Financial resources - long-term financial resources - long-term financial resources, depreciation, retained earnings, shares, bonds, leans, leasing, capital. Financial and economic analysis of the company. Financial resources - long-term financial re | 617W2FM Financing in Urban Mass Transportation | KZ | 3 |
|--|--|---------------------|--------------------|
| UMT byes: UMT development in small towns. Particularities of investment and operation financing of individual UMT types. Historic and present models of UMT financing. 621W2FM Aviation Company Financial Management KZ 3 Theories of corporate financial adterments, budget, forecast. Financial policy of the company. Financial resources - long-term financial resources, depreciation, retained earnings, shares, onds, loans, leasing, capital. Financial and economic analysis of the company. Financial tresources - long-term financial resources, depreciation, retained earnings, shares, budget, forecast. Financial policy of the company. Financial resources - long-term financial resources, optimized and transport development of road transport development developme | | | - |
| Inspection and blind passengers. Tourism &: UMT. UMT typology &: choice of optimum financing. 621W2FM Aviation Company Financial Management KZ 3 Theories of corporate finance - Inancial statements, budget, forecast. Financial policy of the company. Financial resources - long-term financial resources, depreciation, retained earnings, shares, bonds, leans, leasing, capital. Financial and economic analysis of the company - structure and content. KZ 3 615W2HS Road Transport History KZ 3 Reads and read traffic in the Ancient Age, corridors of main mediveal pathways. Development of read traffic in the modern period, acceleration of road transport development during the part o2th century. Development of read traffic on the action making - long transport filtsory of read interecetions, bridges and traffic control. development of read signs. KZ 3 614W2KI Capital Investment in Transport filtsoury of ATS and Czech airspace. KZ 3 614W2KS Sociology for Managers KZ 3 Renacial market, investment in Czech Republic. Practical examples of TWR, APP a ACC control. Procedural and radar control. Incidents caused or partilip caused by ATS. History of ATS and Czech airspace. KZ 3 615W2MS Sociology for Managers KZ 3 614W2K2 Health Notection in Transportation and Eu Organization. Corporation. Its culture and social system. Human's work position in transportat | | • | |
| Theorise of corporate finance - financial statements, budget, forecast, Financial policy of the company. Financial accourses - long-term financial resources, depreciation, retained earnings, shares, bonds, loans, leasing, capital, Financial and economic analysis of the company - structure and content. 615W2HS Road Transport History KZ 3 Roads and road traffic in the Ancient Age, corridors of main mediveal pathways. Development of read traffic in the modern period, acceleration of road travelling in modern period. KZ 3 Financial market, investment of road syourd, geometric and construction layers. Beginning of modern road civil engineering. Development of road travelling in modern period. KZ 3 Financial market, investment desicion making - long term goals and investment strategies, long term financing KZ 3 Financial agroup in Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, APP a ACC control. Procedural and radar control. Incidents caused or partially caused by ATS. History of ATS and Czech airspace. KZ 3 615W2MS Sociological approach to a corporation. Corporation and its organization. Corporation and its running - human role and communication. Corporation. KZ 3 615W2DX Health Protection in Transportation and EU KZ 3 615W2DX Health Protection in Transportation and sugge and after, current legislature, future prospects. Harmonisation | | | ingi nanoport |
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Name of the block: Jazyky Minimal number of credits of the block: 8 The role of the block: J

Code of the group: JZ-N-LA K (1.-4.SEM) Name of the group: Jazyky navaz.mag. KOMBI studia (1.- 4.sem.) programu LA Requirement credits in the group: In this group you have to gain 8 credits Requirement courses in the group: In this group you have to complete 4 courses Credits in the group: 8 Note on the group:

Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their Completion Credits Code Scope Semester Role members) Tutors, authors and guarantors (gar.) 615J2F1 Ζ 2 0P+2C+10B Ζ Language - French 1 J 615J2I1 Ζ 0P+2C+10B Ζ 2 Language - Italian 1 J Language - German 1 René Skalický 615J2N1 Ζ 2 0P+2C+10B Ζ J Language - Russian 1 Vilma Gottwaldová 615J2R1 Ζ 2 0P+2C+10B Ζ J 7 7 615J2S1 2 0P+2C+10B J Language - Spanish 1 615JBF2 Ζ 2 0P+2C+10B L Language - French 2 J 615JBI2 Ζ 2 0P+2C+10B L Language - Italian 2 J

| 615JBN2 | Language - German 2 René Skalický, Sv tlana Petrová | Z | 2 | 0P+2C+10B | L | J |
|---------|---|----|---|-----------|---|---|
| 615JBR2 | Language - Russian 2 Vilma Gottwaldová, Marie Michlová | Z | 2 | 0P+2C+10B | L | J |
| 615JBS2 | Language - Spanish 2 | Z | 2 | 0P+2C+10B | L | J |
| 615JBF3 | Language - French 3 | Z | 2 | 0P+2C+10B | Z | J |
| 615JBI3 | Language - Italian 3 | Z | 2 | 0P+2C+10B | Z | J |
| 615JBN3 | Language - German 3 René Skalický | Z | 2 | 0P+2C+10B | Z | J |
| 615JBR3 | Language - Russian 3 Vilma Gottwaldová | Z | 2 | 0P+2C+10B | Z | J |
| 615JBS3 | Language - Spanish 3 | Z | 2 | 0P+2C+10B | Z | J |
| 615JBF4 | Language - French 4 | ZK | 2 | 0P+2C+10B | L | J |
| 615JBI4 | Language - Italian 4 | ZK | 2 | 0P+2C+10B | L | J |
| 615JBN4 | Language - German 4 René Skalický, Sv tlana Petrová, Eva Rezlerová | ZK | 2 | 0P+2C+10B | L | J |
| 615JBR4 | Language - Russian 4 Vilma Gottwaldová, Marie Michlová | ZK | 2 | 0P+2C+10B | L | J |
| 615JBS4 | Language - Spanish 4 | ZK | 2 | 0P+2C+10B | L | J |

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| language of management. | | |
| 615J2I1 Language - Italian 1 | Z | 2 |
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| 615JBN3 | Language - German 3 | Z | 2 |
| | Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of | | |
| | municative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo | k with (professior | nal) text and its |
| features. Practice of ora | I and written presentation. | | |
| 615JBR3 | Language - Russian 3 | Z | 2 |
| Grammar and stylistics. | Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of | f language struct | ure knowledge |
| and perceptive and corr | municative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo | k with (professior | nal) text and its |
| features. Practice of ora | l and written presentation. | | |
| 615JBS3 | Language - Spanish 3 | Z | 2 |
| Grammar and stylistics. | Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of | f language struct | ure knowledge |
| and perceptive and corr | municative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo | k with (professior | nal) text and its |
| features. Practice of ora | I and written presentation. | | |
| 615JBF4 | Language - French 4 | ZK | 2 |
| Grammar and stylistics. | Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of | f language struct | ure knowledge |
| and perceptive and corr | municative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo | k with (professior | nal) text and its |
| features. Practice of ora | I and written presentation. | | |
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| 615JBI4 | Language - Italian 4 | ZK | 2 |
| | Language - Italian 4 Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of | | — |
| Grammar and stylistics. | | f language struct | ure knowledge |
| Grammar and stylistics. and perceptive and com | Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of | f language struct | ure knowledge |
| Grammar and stylistics. and perceptive and com | Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of municative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Wo | f language struct | ure knowledge |
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| Grammar and stylistics. and perceptive and com features. Practice of ora 615JBN4 Grammar and stylistics. and perceptive and com | Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of municative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. World and written presentation. Language - German 4 Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of the second study focus at the Faculty. | f language struct k with (profession ZK f language struct | ure knowledge nal) text and its 2 ure knowledge |
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List of courses of this pass:

| Code | Name of the course | Completion | Credits |
|-------------------------|---|----------------------------|--------------|
| 611LIP2 | Linear Programming 2 | Z,ZK | 3 |
| Formulation of the tas | sk of integer programming, branch and bound method of numerical solution, problems about knapsack, travelling salesman, sets, loc | ation of stores and | post boxes, |
| | tasks of scheduling, heuristics, metaheuristics - genetic algorithms, ant colony optimization. | | |
| 611STS | Stochastic Systems | Z,ZK | 4 |
| | with the problems of mathematical modelling of dynamical systems, estimation od these models and their utilization for prediction. sportation tasks. Mathematical theory roots from probability and mathematical statistics and they use the methods of the Bayesian | | |
| 611TER | Game Theory and Optimal Decision-Making | ZK | 2 |
| Decision-making the | ory, utility theory. Explicit form games, backward induction. Normal form games. Antagonistic conflict, matrix games. Repeated gam | ies, evolutionary g | ame theory. |
| Cooperative games | without transferable payoffs. Cooperative games with transferable payoffs (imputation, core, Shapley value, nucleolus). Application | s of game theory a | above all in |
| | economics and transportation. | | |
| 611THRO | Queuing Theory | ZK | 2 |
| | ss, definition, random distribution, and probability. Basic processes, process of revitalisation. Markov process, Markov models, Kend M/M/n. Non-markovian models, model M/C/n, models G/G/n. Models with continuous flow. Service net, examples of Petri net. Com | | odel M/M/1, |
| 611XN4K | Seminar for Diploma Thesis | Z | 8 |
| 611XNDM | Master Thesis for study programme LA | Z | 18 |
| 612XN4K | Seminar for Diploma Thesis | Z | 8 |
| 612XNDM | Master Thesis for study programme LA | Z | 18 |
| 614BIG | Big Data | KZ | 2 |
| Principle of MapRedu | ice, Basic Principles of Big Data Management, Comparison and Classification of NoSQL Databases, Key Database Value Database, | , Column Databases | , Document |
| Databases, Graph Da | atabases-Basic Principles, Graph Databases-Advanced Aspects, Indexing, Interpretation, Advanced Principles Big Data Manageme | ent, NewSQL Data | base, Cloud |
| | computing, Data warehouses and Big Data, Cloud computing, Data warehouses and Big Data, Other Big Data issues | | |
| 614GISS | Geographical Information Systems | KZ | 2 |
| Construction of | of saving format of space-oriented information land-survey and cartography minimum basic tasks of spatial operations principles of | territorial identification | ation |
| 614TEL | Telecommunications | KZ | 3 |
| Status quo and new | r trends in telecommunications systems. economical and legal aspects of telecommunications networks design and telecommunications | ations services pro | vissioning, |
| identification and quar | tification of hyererchical telecommunications networks and telecommunicatuon services performance based on addopted performance | parameters, telecor | mmunication |
| | services typically applied within transport and specifically logistic solutions. | | |
| 614W2KI | Capital Investment in Transportation and Telecommunications | KZ | 3 |
| | Financial market, investment desicion making - long term goals and investment strategies, long term financing | | · |
| 614XN4K | Seminar for Diploma Thesis | Z | 8 |

| 614XNDM | Master Thesis for study programme LA | Z | 18 |
|--|---|--|--|
| 615J2A1 | Language - English 1 | Z | 2 |
| Grammatical Stru | ictures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, | feedback skills, s | ummarising |
| technical text cont | tent, structuring presentations and meeting minutes, elementary rhetorics of English and practical application, formal and technical reg of management. | isters and their us | se, languag |
| 615J2F1 | Language - French 1 | Z | 2 |
| | actures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, | | - |
| technical text con | tent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec | hnical registers a | nd their use |
| 045 1014 | language of management. | | |
| 615J2I1 | Language - Italian 1 | Z faadhaak akilla a | 2 |
| | uctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, tent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec language of management. | | - |
| 615J2N1 | Language - German 1 | Z | 2 |
| | Internation sciences. Developing perceptive and communicative skills, | | |
| | tent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec language of management. | | - |
| 615J2R1 | Language - Russian 1 | Z | 2 |
| Grammatical Stru | ictures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, | feedback skills, s | ummarising |
| technical text con | tent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec language of management. | hnical registers a | nd their use |
| 615J2S1 | Language - Spanish 1 | Z | 2 |
| Grammatical Stru | uctures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, | feedback skills, s | ummarising |
| technical text con | tent, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec language of management. | hnical registers a | nd their use |
| 615JBA2 | Language - English 2 | Z | 2 |
| | actures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, | | |
| | tent, structuring presentations and meeting minutes, elementary rhetorics of English and practical application, formal and technical reg of management. | isters and their us | |
| 615JBA3 | Language - English 3 | Z | 2 |
| | actures and style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, tent, structuring presentations and meeting minutes, elementary rhetorics of English and practical application, formal and technical reg | | - |
| 615JBA4 | of management. Language - English 4 | ZK | 2 |
| | juctures and style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, | 213 | |
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| | Language - German 4 | ZK | 2 |
| Grammar and stylis | stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la | anguage structure | knowledge |
| and perceptive and | communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w | with (professional) | text and its |
| | features. Practice of oral and written presentation. | | |
| 615JBR2 | Language - Russian 2 | Z | 2 |
| Grammatical Struct | ures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, | feedback skills, s | ummarisin |
| echnical text conter | nt, structuring presentations and meeting minutes, elementary rhetorics of foreign language and practical application, formal and tec | hnical registers ar | nd their us |
| | language of management. | | |
| 615JBR3 | Language - Russian 3 | Z | 2 |
| Grammar and stylis | stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la | anguage structure | knowledg |
| and perceptive and | communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v | with (professional) | text and it |
| | features. Practice of oral and written presentation. | | |
| 615JBR4 | Language - Russian 4 | ZK | 2 |
| Grammar and stylis | stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la | anguage structure | knowledge |
| and perceptive and | communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v | with (professional) | text and it |
| | features. Practice of oral and written presentation. | | 1 |
| 615JBS2 | Language - Spanish 2 | Z | 2 |
| | ures and Style. Selection of conversation topics relating to transportation sciences. Developing perceptive and communicative skills, | | |
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| 615JBS3 | Language - Spanish 3 | Z | 2 |
| | stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la | | |
| and perceptive and | communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work v | with (professional) | text and it |
| | features. Practice of oral and written presentation. | | |
| 615JBS4 | Language - Spanish 4 | ZK | 2 |
| Grammar and stylis | stics. Selection of conversation and professional topics based on the language level and study focus at the Faculty. Improvement of la | anguage structure | knowledg |
| and perceptive and | communicative skills, vocabulary development. Basic stylistic forms. Presentation of own knowledge in oral and written form. Work w | with (professional) | text and it |
| | features. Practice of oral and written presentation. | | |
| 615W2HS | Road Transport History | KZ | 3 |
| Roads and road tra | ffic in the Ancient Age, corridors of main mediveal pathways. Development of road traffic in the modern period, acceleration of road | transport developr | nent durir |
| st part of 20th cent | tury. Development of road layout, geometric and construction layers. Beginning of modern road civil engineering. Development of roa | ad travelling in mo | dern perio |
| | History of road intercections, bridges and traffic control, development of road signs. | | |
| 615W2MS | Sociology for Managers | KZ | 3 |
| Sociological appro | pach to a corporation. Corporation and its organization. Corporation and its running - human role and communication. Corporation, it | s culture and soci | al system. |
| Hu | uman's work position in free market economy. Corporate directorship, work groups, adaptation, strife, different roles and positions in | corporation. | |
| 615W2OZ | Health Protection in Transportation and EU | KZ | 3 |
| · · · · · · · · · | | | |
| Health protection i | n transportation in CR in the past and present. Conditions before 1989 and after, current legislature, future prospects. Harmonisatior | | - |
| Health protection i | n transportation in CR in the past and present. Conditions before 1989 and after, current legislature, future prospects. Harmonisatior members. Fundamental principles of health protection and support in selected EU countries. | | - |
| 615W2PT | | | - |
| 615W2PT | members. Fundamental principles of health protection and support in selected EU countries. | n of legislation with KZ | other EU |
| 615W2PT | members. Fundamental principles of health protection and support in selected EU countries. Food in Transportation | n of legislation with KZ | other EU |
| 615W2PT | members. Fundamental principles of health protection and support in selected EU countries. Food in Transportation Interaction transportation and foodstuffs. The health risks. Hygienic safeguard. The practical examples from the Czech Republic and dining cars, work trains and other railroad equipment. Legislation. | n of legislation with KZ I from the world. Th | other EU |
| 615W2PT | members. Fundamental principles of health protection and support in selected EU countries. Food in Transportation Interaction transportation and foodstuffs. The health risks. Hygienic safeguard. The practical examples from the Czech Republic and | h of legislation with KZ I from the world. TI KZ | h other EL |
| 615W2PT The nutrition policy. 615W2SR Basic skills of oral a | members. Fundamental principles of health protection and support in selected EU countries. Food in Transportation Interaction transportation and foodstuffs. The health risks. Hygienic safeguard. The practical examples from the Czech Republic and dining cars, work trains and other railroad equipment. Legislation. Stylistics and Rhetorics | h of legislation with KZ I from the world. TI KZ . Teaching to spea | h other EU 3 he issues 3 k well-voo |
| 615W2PT The nutrition policy. 615W2SR Basic skills of oral a rgans, voice trainin | members. Fundamental principles of health protection and support in selected EU countries. Food in Transportation Interaction transportation and foodstuffs. The health risks. Hygienic safeguard. The practical examples from the Czech Republic and dining cars, work trains and other railroad equipment. Legislation. Stylistics and Rhetorics Ind written expression as a means of human communication. Basic information about speech, articulation, oral and written language g. Language semantics, language syntactic and the pragmatic aspect. Creative thought and its oral and written expression. Practice - | h of legislation with KZ I from the world. TI KZ . Teaching to spea cultivating the skill | h other EU 3 he issues 3 k well-voc s of speed |
| 615W2PT The nutrition policy. 615W2SR Basic skills of oral a rgans, voice trainin 615W2TS | members. Fundamental principles of health protection and support in selected EU countries. Food in Transportation Interaction transportation and foodstuffs. The health risks. Hygienic safeguard. The practical examples from the Czech Republic and dining cars, work trains and other railroad equipment. Legislation. Stylistics and Rhetorics Ind written expression as a means of human communication. Basic information about speech, articulation, oral and written language g. Language semantics, language syntactic and the pragmatic aspect. Creative thought and its oral and written expression. Practice - Technician and Contemporary Society | h of legislation with KZ I from the world. Th KZ . Teaching to spea cultivating the skill KZ | h other EL 3 he issues 3 k well-voor s of speed 3 |
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| 615W2PT The nutrition policy. 615W2SR Basic skills of oral a rgans, voice trainin 615W2TS Vhy to take off a ha 615XN4K 615XN4K 615XN4K 615XN0M 616XN4K 616XN4K 616XN4K 616XN4K 617DOCH nvestigation of cau and data collection) 617DOPM Basic steps and too 617KMDK the course focuses solved such as more 617LSC Development of citie | members. Fundamental principles of health protection and support in selected EU countries. Food in Transportation Interaction transportation and foodstuffs. The health risks. Hygienic safeguard. The practical examples from the Czech Republic and dining cars, work trains and other railroad equipment. Legislation. Stylistics and Rhetorics Ind written expression as a means of human communication. Basic information about speech, articulation, oral and written language g. Language semantics, language syntactic and the pragmatic aspect. Creative thought and its oral and written expression. Practice - Technician and Contemporary Society it in a room and open a door for a lady, are there simple solutions, science vs belief, do we need to know or is it enough to turn on a f Internet and in newspapers, what are the sights for, interest in public affairs - a hangover from the past? Seminar for Diploma Thesis Master Thesis for study programme LA Seminar for Diploma Thesis Master Thesis for study programme LA Aplication of marketing tools in transport industry plans, Implementation of marketing campaigns, Branding and brand promotion, Multimedia presentations, Direct marketing and relat Travel behavior research (quasi-experimental and experimental approaches). Data collection (theory of measurement, c Analysis and interpretation of data (advanced regression models; issues of analysis and interpretation of results: effect size, practic Analysis and interpretation tip distribution, mode choice and trip distribution). Mobility and availability in urban a transportation planning and modelling. UQuantitative Methods in Transport On the issue of the use of undirected graphs tree type, planar graphs and their coloring. Further distribution problems, facility location Logistics in Smart Cities in time, city and region, mobility of city residents and movement of goods, sustainability as a concept, Smart Cities, city as a syste | h of legislation with KZ from the world. Th KZ Teaching to spear cultivating the skill KZ PC, it must be true Z Z Z KZ ed lead generation KZ design of research cal vs. statistical si Z,ZK reas, land use. Ne Z,ZK n problems are form cs (metaheuristics Z,ZK m and its compon | A other EL 3 he issues 3 k well-voc s of speec 3 - it's on t 8 18 8 18 8 18 8 18 2 18 18 2 18 18 18 18 2 18 18 18 18 18 18 18 18 18 18 |

| 617MID | Managerial Information Systems in Transport | Z,ZK | 3 |
|-------------------------------|---|----------------------|---------------|
| | building IS of modern transport company. New EU legislation on cyber security and data protection puts transport organizations in | | |
| course focuses on the | e security of IS and possible sources of danger. The practical part deals with the process of building a new IS from the idea through | the timetable and | the financia |
| 047000 | budget, the basic documents for the possible assignment of the contract. | 71/ | - |
| 617PPC | Carriage Processes | ZK | 3 |
| 617RKOP | Domestic carriages, international carriages, nomenclature of goods, pricing, contracting, responsibility for damages. | Z,ZK | 3 |
| | Management of commercial projects in transport stomer, activities, output - quality, time, money), project surroundings, location of the project (area analysis, traffic flows, authorizat | | 1 |
| | t, sources of financing, customer-supplier relations, feasibility studies, sensitivity and multi-criteria analysis, financial and value ar | | - |
| | changes. | laryolo, managoint | |
| 617RVIP | Public project management in transport | Z,ZK | 5 |
| | ject management in the public sector, used procedures and standards of project management, organizational structure in project ma | | public sector |
| F | project and pre-project preparation in transport and transport infrastructure and their specifics, feasibility study and CBA, project e | valuation. | |
| 617TSI | Technology of Road Transport | KZ | 2 |
| | ional, technical, logistic and safety conditions of road transport, basic transport technologies, special transport, international agree | | |
| parameters and spec | cialization of transport, handling and loading/unloading means, maintenance, service and repairs of road vehicles, safety of road tr | ansport and choic | e of optimal |
| | transport unit. | | |
| 617TZNK | Technology of Railway Transport | Z,ZK | 5 |
| | ssesment, model operational situation with a system running time between IPT-nodes, calculation of traction energy savings comp | | |
| ior designing of neet | ting crossing station, solving of capacity problem and blocking time in relation to train protection system, robustness of timetable, s paths, guidelines for centralised operational traffic control and management | ystem concept of | neigin traiñ |
| 617TZOK | Inventory, Replacement and Scheduling Theory | Z.ZK | 4 |
| | ntroduction, static models, deterministic dynamic models, stochastic dynamic models Replacement theory - introduction, models f | 1 ' | 1 - |
| | models for replacement of items that fail completely Scheduling theory - introduction, single machine scheduling problems, parallel | - | |
| | flow shop scheduling problems and job shop scheduling problems | | 51 |
| 617W2AM | Application of Marketing Tools in Transportation | KZ | 3 |
| | rketing principles in transport issues, marketing tools suitable for transport, case studies of the use of marketing in the sphere of p | 1 | 1 |
| 617W2FM | Financing in Urban Mass Transportation | KZ | 3 |
| UMT history and dev | elopment in Prague and other cities in the world. Building and operation of public tram, bus, and trolleybus networks. Underground | l building and oper | ration. Other |
| UMT types. UMT dev | velopment in small towns. Particularities of investment and operation financing of individual UMT types. Historic and present model | ls of UMT financin | g. Transport |
| | inspection and blind passengers. Tourism & amp; UMT. UMT typology & amp; choice of optimum financing. | | |
| 617W2RZ | Control of Transport Processes | KZ | 3 |
| Theoretical bases, tr | ansport system, decomposition, factors influencing control, quality diagnosis, methods of control, systems for decision making sup | oport, risk of decis | ion making, |
| | telematics. | | 1 |
| 617XN4K | Seminar for Diploma Thesis | Z | 8 |
| 617XNDM | Master Thesis for study programme LA | Z | 18 |
| 618XN4K | Seminar for Diploma Thesis | Z | 8 |
| 618XNDM | Master Thesis for study programme LA | Z | 18 |
| 620XN4K | Seminar for Diploma Thesis | Z | 8 |
| 620XNDM | Master Thesis for study programme LA | Z | 18 |
| 621W2CR | CRM | KZ | 3 |
| | Analysis of air accidents. Human factor. Error. Historical development of CRM. Health and fitness. Stress and its effect on the hum | | Sleep & |
| Vigilance. Info | ormation Processing. Situational Awareness. Workload Management. Decision Making. Communication. Leadership & amp; Team E | 3ehaviour. Automa | tion. |
| 621W2FM | Aviation Company Financial Management | KZ | 3 |
| Theories of corpora | ate finance - financial statements, budget, forecast. Financial policy of the company. Financial resources - long-term financial resources | irces, depreciation | n, retained |
| | earnings, shares, bonds, loans, leasing, capital. Financial and economic analysis of the company - structure and content. | | |
| 621W2LS | Air Traffic Services | KZ | 3 |
| Airspace structure ir | n Czech Republic and other countries. Introduction and description of ATS units in Czech Republic. Practical examples of TWR, AF | P a ACC control. | Procedural |
| | and radar control. Incidents caused or partially caused by ATS. History of ATS and Czech airspace. | | |
| 621W2MC | CNS Systems Modelling | KZ | 3 |
| 621W2PL | Operational Aspects of Aerodromes | KZ | 3 |
| Operational aspects | of aerodromes. Location of aerodrome and orientation of runways. Requirements for apron. Capacity of airports runways and term | - | inder winter |
| 00414/000 | conditions. Firefighting units. Protection against unlawful interference. Local transport connection. Environmental protection | | • |
| 621W2PP | Law and Operation in Air Transport ion law. International conventions on civil aviation. International organisations and including of the Czech Republic in these organis | KZ | 3 |
| | of state administration and state supervision in matters of civil aviation, in accordance with Act No. 49/1997 Col. Facilitation. Resp | - | |
| | passengers, luggage and cargo. The safe transport of dangerous goods. | | |
| | Seminar for Diploma Thesis | Z | 8 |
| 621XN4K | | Z | 18 |
| 621XN4K | Master Thesis for study programme LA | | 10 |
| 621XNDM | Master Thesis for study programme LA | | 0 |
| 621XNDM 622XN4K | Seminar for Diploma Thesis | Z | 8 |
| 621XNDM 622XN4K 622XNDM | Seminar for Diploma Thesis Master Thesis for study programme LA | Z Z | 18 |
| 621XNDM 622XN4K | Seminar for Diploma Thesis | Z | - |

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