Study plan

Name of study plan: 2.bl.bak.komb.ME 10/11za átek

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch: Program of study: Welcome page Type of study: unknown 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: 88

The role of the block: Z

Code of the group: 5.S.BK 05/06

Name of the group: 5.sem.bak.komb.od 05/06

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

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

Credits in the group: 24 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
17EMM	Economic-mathematical Models	ZK	3	2+0		Z
11MST	Mathematical Statistics	Z,ZK	2	1+1		Z
13PE	Operational Economy	Z,ZK	3	2+1		Z
17RP	Project Management	ZK	2	2+0		Z
14SSS	Networks and Network Operating Systems	KZ	2	1+1		Z
20SANL	Systems Analysis	Z,ZK	4	2+1		Z
14TLK	Telecommunications	Z,ZK	4	2+1		Z
17ZTD	Introduction to Theory of Transport	Z,ZK	4	2+1		Z

Characteristics of the courses of this group of Study Plan: Code=5.S.BK 05/06 Name=5.sem.bak.komb.od 05/06

17EMM	Economic-mathematical Models	ZK	3
11MST	Mathematical Statistics	Z,ZK	2
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Point estimation, properties of point estimators (consistency, unbiasedness, efficiency), methods of point estimation (method of moments, maximum likelihood metod). Bayes estimators. Testing of statistical hypothesis, critical values, choice of hypothesis and level of significance, observed level of significance (P-value). Goodness of fit test, independence test. Regression and correlation, linear regression, correlation coefficient, coefficient of determination, the general linear model, statistical inference in linear regression, analysis of variance, multiple regression, the use of matrices in regression.

13PE	Operational Economy	Z,ZK	3
17RP	Project Management	ZK	2

The course makes students acquainted first with project, its participants and their target behaviour, then with the project cycle and the principles of project management. Basic methods of project assessment, principles of optimal scenario choice, risks and uncertainties of choice. The possibilities of project funding, the methodology of World Bank and the management of supranational projects.

or oupramational project	. outranian projector				
14SSS	Networks and Network Operating Systems	KZ	2		

Acquaintance with operating and possibilities of computer networks and their services utilize is the subject target. Network topology, IP addressing, WAN networks, connection information (ping, trace route). Detailed familiarity with selected WIN NT, Novell, and Unix network environment in the second semester part. Introduction to server and workstations installation, users and groups creation, folder structure creation, disc mapping, users protection, folders security, network printing, network security.

20SANL	Systems Analysis	∠,∠K	4
Models and analyses of	systemic features, means of detection of systemic characteristics, ways, decomposition, boundary and structure of systems,	system behavior,	decision-making

processes, disgram characteristics, fuzzy sets/equations, formulation of states underindistinctly defined conditions, stability of systems.

14TLK Telecommunications Telecommunication bases as cross-section branch create the subject's contents. During introduction, basic legislative conditions forming telecommunication market consistent with the

EU rules (selected parts of legislative and sub legislative standards, regulation and regulation frame) and existing and perspective telecommunication services characteristics are lectured. In the second part, transmission and connecting system and terminal devices basic principles (analogue and digital systems, used modulations in view of PCM modulation and modulation predicative methods) and solution of modern connecting systems are explained. In the third part, network management principles from view of operational organization

are briefly described. 17ZTD Introduction to Theory of Transport Z,ZK

Code of the group: 6.S.BK 05/06

Name of the group: 6.sem.bak.komb.od05/06

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

Requirement courses in the group: In this group you have to complete at least 7 courses

Credits in the group: 24 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
14DAPS	Database and Presentation Systems	KZ	2	1+1		Z
13EFI	Enterprise Economics	Z,ZK	3	2+1		Z
13EDT	Transportation and Telecommunication Economics	Z,ZK	4	2+2		Z
14IFS	Information Systems	ZK	4	2+0		Z
17MEAN	Methods of Economic Analyses	Z,ZK	4	2+1		Z
11MSAP	Modeling of Systems and Processes	Z,ZK	4	2+1		Z
13PAZ	Transportation and Forwarding Business	Z,ZK	3	2+1		Z

Characteristics of the courses of this group of Study Plan: Code=6.S.BK 05/06 Name=6.sem.bak.komb.od05/06

14DAPS	Database and Presentation Systems	KZ	2		
Database systems. E-R data model, relational data model, relational databases. Creation of a simple database application in the MS ACCESS environment. Creation of presentations					
by help of the PowerPoi	nt environment - static snaps, simple animations, linking with other applications.				
13EFI	Enterprise Economics	Z,ZK	3		
13EDT	Transportation and Telecommunication Economics	Z,ZK	4		
The subject is dedicated	to analytical and synthetically views of economic activities, both the production and services business systems. The main into	erest is focused or	the parts which		
will be provided in decis	ion-making processes by future engineers, technologists and managers. The property and financial structures create the ba	sic issues for busi	ness activities.		
Furthermore, the attenti	on is concentrated on time life cycle of product and service, quantification economic time life, depreciation and methods of it	s calculation. The	problem of		
inventories as a key que	estion of business activities is provided and basic mathematical inventory models are given. The core of entrepreneurial proce	ess - cost analysis	, cost estimating		
, revenue, profit and benefit are put to the main interest of engineer and manager together with structure of business plan, entrepreneurial projects and their analysis and evaluation.					
Finally, the characteristics of time life business cycle from the start of activities to the end these ones are discussed.					
14IFS	Information Systems	ZK	4		

The subject is specialized in theoretic and practical design resources and principles and information systems (IS) creation and realization. Students get knowledge of various information systems terminology, classification and characterization (process, transaction, knowledge, metainformation, etc.), IS projecting procedures, data/information computer proceeding technology by help of data structures, database systems and models. They obtain view of IS and information technologies technical infrastructure trends, understand IS architecture principles and purposes, human role in IS and possibilities of IS evaluation. In brief, they acquaint themselves with creation principles, architecture and standards of the state information system

17MEAN Methods of Economic Analyses

The course comprehends the problems of numerical representation of economical phenomena by systems of indicators and their analysis and interpretation. The analysis of dependence, time series and indices is emphasised

11MSAP Modeling of Systems and Processes

Z.ZK The course introduces mathematical methods and algorithms providing an essential tool for system analysis. Methods and algorithms represent context in which the systems are modelled and evaluated in continuous and discrete time domain. The Laplace transform, z-transform, and the recursive algorithms are introduced in order to understand solution of

13PAZ Transportation and Forwarding Business

differential and difference equations, which are developed for system description. The course focuses on practical use of technical computing environment MATLAB

The aim of the subject is to make the students acquainted with the basis of transportation processes technology, with the conditions for particular kinds of transport and with engagement

relationships on transport (inland and international) and on forwarding business.

Code of the group: 7S.BK-ME06/07

Name of the group: 7.s.bak.komb.ME-od06/07

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 at least 5 courses

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
17DOU	Public Transport Service	Z,ZK	4	2+1		Z
17FF	Finances and Funds	Z,ZK	4	2+1		Z
14IP1	Tutorial in Informatics 1	Z	2	0+2		Z
13MDT	Marketing in Transport.and Telecommunications	Z,ZK	4	2+1		Z
17TEC	Technology of Transport	Z,ZK	4	2+1		Z

Characteristics of the courses of this group of Study Plan: Code=7S.BK-ME06/07 Name=7.s.bak.komb.ME-od06/07

17DOU	Public Transport Service	Z,ZK	4
17FF	Finances and Funds	Z,ZK	4

The course is oriented to the problems of finance, financial markets and institutions. It analyses the credit and the saving financial policy as well as various types of loans and their influence on lenders and borrowers. Direct and portfolio investment, their strong and weak points and risks. Business companies from the view of financial flows and financing. Financial aspects of joint stock companies, the position of shareholders, various types of shares, dividends. Financial plans, the use of financial instrument combinations as long and short term loans, bond emissions and capital raise. The problems of bills of exchange, bankruptcy and composition and of international investment.

14IP1 Tutorial in Informatics 1 Z

The course involves introductory theoretical part (basic terminology from information technologies, information theory, computer terminology, data damage protection, theft and destruction, protection of computer network, security and legal problems relevant to information technologies, copyright and data protection law, computer criminality) and practical part according to the specialization.

13MDT Marketing in Transport.and Telecommunications

Analysing the marketing process. The core concepts of marketing. Understanding the role of marketing in organisations. Marketing management. Marketing of information systems and marketing research. Analysing the marketing environment (macro and microenvironment). Analysing consumer markets and buyer behaviour. Analysing business markets and business buying behaviour. Identifying market segments and selecting target markets. Differentiating and positioning the market offer marketing mix. Developing, testing and launching new products. Product life cycles and strategies. Product lines, brands and packaging. Designing pricing strategies and programs. Selecting marketing channels. Physical distributions systems. Promotion and communication mix strategies. Sales promotion, advertising, public relations, programs, personal sale. Corporate business strategic planning. Market oriented strategic planning. Marketing in services and non-profit organisations.

17TEC | Technology of Transport | Z,ZK | 4 Course deals with foundations of technology and management of transportation processes. It is concerning mainly in way and organization transfer of persons and goods on the defined

transport network by moving of transport means through the transport ways. It connects on knowledges of transport and handling tools from the first period of study.
\r\n\Study is concerning on these questions from technology of single sorts of transportation:\r\n\<li\>\r\n\Strin\Strin\strin

Code of the group: 7BK-SEMI.06/07

Name of the group: 7s.bak.kom.semi.od06/07

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 at least 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
12X17K	Seminar for Bachelor Thesis 1	Z	2	8		Z
11X17K	Seminar for Bachelor Thesis 1	Z	2	8		Z
13X17K	Seminar for Bachelor Thesis 1	Z	2	8		Z
14X17K	Seminar for Bachelor Thesis 1	Z	2	8		Z
15X17K	Seminar for Bachelor Thesis 1	Z	2	8		Z
22X17K	Seminar for Bachelor Thesis 1	Z	2	8		Z
17X17K	Seminar for Bachelor Thesis 1	Z	2	8		Z
18X17K	Seminar for Bachelor Thesis 1	Z	2	8		Z
20X17K	Seminar for Bachelor Thesis 1	Z	2	8		Z
21X17K	Seminar for Bachelor Thesis 1	Z	2	8		Z
16X17K	Seminar for Bachelor Thesis 1	Z	2	8		Z

Characteristics of the courses of this group of Study Plan: Code=7BK-SEMI.06/07 Name=7s.bak.kom.semi.od06/07

12X17K	Seminar for Bachelor Thesis 1	Z	2
11X17K	Seminar for Bachelor Thesis 1	Z	2
13X17K	Seminar for Bachelor Thesis 1	Z	2
14X17K	Seminar for Bachelor Thesis 1	Z	2
15X17K	Seminar for Bachelor Thesis 1	Z	2
22X17K	Seminar for Bachelor Thesis 1	Z	2

17X17K	Seminar for Bachelor Thesis 1	Z	2
18X17K	Seminar for Bachelor Thesis 1	Z	2
20X17K	Seminar for Bachelor Thesis 1	Z	2
21X17K	Seminar for Bachelor Thesis 1	Z	2
16X17K	Seminar for Bachelor Thesis 1	Z	2

Code of the group: 8S.BK-ME06/07

Name of the group: 8.s.bak.komb.ME od06/07

Requirement credits in the group: In this group you have to gain 14 credits

Requirement courses in the group: In this group you have to complete at least 4 courses

Credits in the group: 14 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
14IP2	Tutorial in Informatics 2	KZ	2	0+2		Z
17LGS	Logistics	Z,ZK	4	2+1		Z
13MSPK	Small and Medium-sized Enterprise	ZK	4	2+0		Z
13U	Accounting	Z,ZK	4	2+1		Z

Characteristics of the courses of this group of Study Plan: Code=8S.BK-ME06/07 Name=8.s.bak.komb.ME od06/07

14IP2 Tutorial in Informatics 2

Knowledge systems. Expert systems and programmes based on knowledge, their architecture, knowledge representation, basic derivation and implementation methods. Interface for knowledge systems creation and their design principles. Certainty and uncertainty in knowledge systems and different approaches to them. Common model of balances combination, fuzzy logics. Knowledge base design methods. Database and knowledge systems and their rules.

17LGS Logistics Z,ZK 4

As an integrated managerial system of circular and transfer flows, logistics form new ways of partnership between production and business organization on one hand, and material and information carriers on the other hand. This subject is focused on:
\r\n\r\nConcept of logistics, its development and principles\r\nLogistics systems units, logistics chain\r\nLogistics coupling, logistics methods and technologies, decision making in the logistics managerial systems\r\nMarketing as a basic tool in the logistics managerial systems, marketing survey, marketing offer, marketing evaluation techniques and completion marketing planning\r\nStatus of transportation in the logistics system\r\nInformation flows in the logistics chain\r\n

13MSPK Small and Medium-sized Enterprise

The aim of this course is to point out the small business as an important element of global economy. Through this subject the entrepreneurship and dynamic entrepreneurship in the world and in the Czech Republic under technology and economic conditions is discussed. The role of venture capital for development of small enterprises using the material of EVCA, European Union organisation is shown. Finally, analysis and synthesis of steps needed for successfully goals of entrepreneurship taking a business plan as a productive method are described.

13U Accounting Z,ZK 4

The objective of the subject is to master the basics of accounting in the individual accounting domains on a basis of knowledge of the accounting rules, methods, tools (including technical procedures) and accounting procedures. Furthermore, students will become familiar with importance to accounting in practice, of the accounting units, with administration of the accounting books and with accounting systems including organisation of the accounting and administration and processing of accounting on computer. The subject will also include the basic bindings to tax and managerial accounting (in-house).

Code of the group: 8BK-SEM.06/07

Name of the group: 8s.bak.kom.semi.od06/07

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 at least 1 course

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
17X18K	Seminar for Bachelor Thesis 2	Z	6	12		Z
13X18K	Seminar for Bachelor Thesis 2	Z	6	12		Z
14X18K	Seminar for Bachelor Thesis 2	Z	6	12		Z
18X18K	Seminar for Bachelor Thesis 2	Z	6	12		Z
16X18K	Seminar for Bachelor Thesis 2	Z	6	12		Z
20X18K	Seminar for Bachelor Thesis 2	Z	6	12		Z
21X18K	Seminar for Bachelor Thesis 2	Z	6	12		Z
12X18K	Seminar for Bachelor Thesis 2	Z	6	12		Z
11X18K	Seminar for Bachelor Thesis 2	Z	6	12		Z

Characteristics of the courses of this group of Study Plan: Code=8BK-SEM.06/07 Name=8s.bak.kom.semi.od06/07				
17X18K	Seminar for Bachelor Thesis 2	Z	6	
13X18K	Seminar for Bachelor Thesis 2	Z	6	
14X18K	Seminar for Bachelor Thesis 2	Z	6	
18X18K	Seminar for Bachelor Thesis 2	Z	6	
16X18K	Seminar for Bachelor Thesis 2	Z	6	
20X18K	Seminar for Bachelor Thesis 2	Z	6	
21X18K	Seminar for Bachelor Thesis 2	Z	6	
12X18K	Seminar for Bachelor Thesis 2	Z	6	
11X18K	Seminar for Bachelor Thesis 2	7	6	

Name of the block: Compulsory elective courses

Seminar for Bachelor Thesis 2

Seminar for Bachelor Thesis 2

Minimal number of credits of the block: 24

The role of the block: S

15X18K

15X18K

Code of the group: VP-B-KOMB.OD 05/06 Name of the group: VP-bak.komb.ME od 05/06

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

Requirement courses in the group: In this group you have to complete at least 6 courses

Credits in the group: 24 Note on the group:

Note on the	Name of the course / Name of the group of courses	1	1	1	1	
Code	(in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
11YAS	, , , , , , , , , , , , , , , , , , , ,	Z,ZK	3	2+1		S
17W1AF	Alternative Forms of Transportation Project Financing	KZ	4	8	Z	S
17W1BB	Banks and Banking	KZ	4	8	Z	S
15W1BO	Work Safety and Health Protection	KZ	4	8	L	S
15W1DU	Art History and Society	KZ	4	8	Z	S
15W1DZ	History of Railway	KZ	4	8	L	S
17W1DN	Carriage of Dangerous Goods	KZ	4	8		S
17W1DG	Transport Geography	KZ	4	8		S
17W1DP	Transportation Politics and Strategy	KZ	4	8		S
17W1DZ	Transported Commodities Cognization	KZ	4	8	L	S
13W1EA	Economic - Energetic Analysis of Land Transport	KZ	4	8	Z	S
13W1EP	Technology, Economics and Management of Postal Services	KZ	4	8		S
15W1EH	European Integration within Historical Context	KZ	4	8	Z	S
15W1FD	French Area Studies and Transportation	KZ	4	8		S
17W1HO	Heuristic Methods in Optimization Problems	KZ	4	8		S
15W1HL	History of Civil Aviation	KZ	4	8		S
15W1HD	History of City Public Transport	KZ	4	8	Z	S
13W1HG	Economic Geography	KZ	4	8		S
15W1HE	Work Hygiene and Ergonomics in Traffic	KZ	4	8	Z	S
16WKV	Car Bodies of Motor Vehicles	KZ	4	6		S
13W1KM	Crisis Management in Transportation	KZ	4	8		S
15W1LU	Logic of Engineer Judgement	KZ	4	8		S
17W1LL	Logistics of Passenger and Freight Air Transport	KZ	4	8B	L	S
13W1MR	Managerial Decision-making	KZ	4	8		S
11W1MM	Mathematical Models in Economy	KZ	4	8	Z	S
17W1ND	Maritime Transportation	KZ	4	8	Z	S
15W1OC	Crucial Moments of Czechs	KZ	4	8		S
13W1PM	Personal Management	KZ	4	8	L	S

12W1PC	Pedestrian and Cycling Transport	KZ	4	8		S
13W1PD	The Participation of Transport in Tourist Trade Management	KZ	4	8	L	S
16W1PV	Operation, Construction and Maintenance of Vehicles	KZ	4	8	L	S
13W1SM	MESE Simulation	KZ	4	8	Z	S
13W1TC	Techniques of Travel Services	KZ	4	8		S
16W1TJ	Technological Quality Aspects	KZ	4	8	Z	S
16W1TR	Theory of Railroad Vehicle Driving	KZ	4	8	Z	S
16W1TZ	Transporting Devices	KZ	4	8	L	S
12W1VC	Waterways and shipping	KZ	4	8	Z	S
12W1VD	Water Transport and Transportation	KZ	4	8	L	S
17W1ZC	Tourist Business Transportation	KZ	4	8		S
16W1ZL	Vehicle Testing, Legislation and Construction	KZ	4	8	Z	S
Characteristic	s of the courses of this group of Study Plan: Code=VP-B-KOMB.OD 05	5/06 Name=V	P-bak.ko	mb.ME o	od 05/06	
11YAS				_	Z,ZK	3
17W1AF	Alternative Forms of Transportation Project Financing				KZ	4

11YAS	of the courses of this group of Study Plan: Code=VP-B-KOMB.OD 05/06 Name=VP-bak.kom	Z,ZK	3
17W1AF	Alternative Forms of Transportation Project Financing	KZ	4
	h forms of financing in trasportation, where the public sector body perform the final debtor, i. e. debtor payments come from its	1	•
•	the transaction and it is not the counterparty of the financial institute which provides the funding. Issue of securities as an alte	-	
oroject financing.	the transaction and it is not the counterparty of the infancial institute which provides the funding, issue of securities as an alte	ernative source or tra	irisportation
17W1BB	Banks and Banking	KZ	4
	ystem. Balance sheet, income statement, bank's capital and its functions. Banking risks. Banking products. Interest types, pay-	1 1	ı. financial loa
-	posit products. Banking payment-clearing products. Financial intermediation, open-end and closed-end funds, collective inves	_	-
_	on and supervision. International banking.		
15W1BO	Work Safety and Health Protection	KZ	4
Fundamental legislat	ure, definition of terms, risks and possible health damage, working conditions and health protection with focus on transportation	on. Health protection	programmes
health insurance of h	ome and foreign business trips, statistics, working practice.	·	
15W1DU	Art History and Society	KZ	4
Aesthetics and its ba	sic concepts. Art history: definitions, terminology, division into periods. Architecture, fine arts, design in Europe and America in		ries. Situation
	zechoslovakia, the Czech Republic. Art Nouveau, Cubism, Postmodernism in industrial buildings and transportation facilities. S		
•	s and construction work today. Design of transport vehicles.		
15W1DZ	History of Railway	KZ	4
-	s, steam railways, railway network development in the 2nd half of 19th century, regional railways epoch, railways of the "First R	1	ction, World
•	ay development in the 2nd half of 20th century, high-speed railway origins, railway lines closing, development of long-distance	•	
=	accidents, railway junctions. Study trips and projections.		•
17W1DN	Carriage of Dangerous Goods	KZ	4
17W1DG	Transport Geography		4
	Hansoon Geography	K/	4
_		KZ KZ system. The result of	•
Facultative course Tr	ansport geography briefly describes transport system and reciprocal relations between economic development and transport s	system. The result of	its long-term
Facultative course Tr	ansport geography briefly describes transport system and reciprocal relations between economic development and transport sonfiguration of transport infrastructure.and also perspective of its future development. \r\nCourse is oriented step by s	system. The result of step on railway, road,	its long-term water, aair,
Facultative course Trelations is specific combine and pipeline	ansport geography briefly describes transport system and reciprocal relations between economic development and transport sonfiguration of transport infrastructure and also perspective of its future development. \r\nCourse is oriented step by stransport. \r\n There are lectures there about:\r\n \r\ntransport wayes,\r\ntransport junctions.	system. The result of step on railway, road, and terminals,\r\n <l< td=""><td>its long-term water, aair,</td></l<>	its long-term water, aair,
Facultative course Transcriptions is specific combine and pipeline international crossing	ansport geography briefly describes transport system and reciprocal relations between economic development and transport sonfiguration of transport infrastructure.and also perspective of its future development. \r\nCourse is oriented step by stransport. There are lectures there about:\r\n \r\ntransport wayes,\r\ntransport junctions is\r\n\klt;li\kgt;most important connections, offered services and \r\n<li\kgt;international areas\r\n<="" cooperation="" in="" this="" ul=""></li\kgt;international>	system. The result of step on railway, road, and terminals,\r\n<	its long-term water, aair,
Facultative course Trelations is specific ocombine and pipeline international crossing	ansport geography briefly describes transport system and reciprocal relations between economic development and transport sonfiguration of transport infrastructure.and also perspective of its future development. \r\nCourse is oriented step by s transport. There are lectures there about:\r\n \r\ntransport wayes,\r\ntransport junctions is\r\nmost important connections, offered services and \r\ninternational cooperation in this areas\r\n Transportation Politics and Strategy	system. The result of step on railway, road, and terminals,\r\n<	its long-term water, aair, i>importan
Facultative course Trelations is specific of combine and pipeline international crossing 17W1DP This subject focuses	ansport geography briefly describes transport system and reciprocal relations between economic development and transport sonfiguration of transport infrastructure.and also perspective of its future development. \r\nCourse is oriented step by s transport. \text{kl};br>\text{There are lectures there about:\r\n \r\ntransport wayes,\r\ntransport junctions is\r\nmost important connections, offered services and \r\ninternational cooperation in this areas\r\n \text{Transportation Politics and Strategy} on a practical implementation of transportation theory into the transportation systems for the sake of state interest, and its ma	system. The result of step on railway, road, and terminals,\r\n< KZ croeconomics devel	its long-term water, aair, i>important
Facultative course Trelations is specific of combine and pipeline international crossing 17W1DP This subject focuses Concurrently, it harm	ansport geography briefly describes transport system and reciprocal relations between economic development and transport sonfiguration of transport infrastructure.and also perspective of its future development. \r\nCourse is oriented step by stransport. \r\nEutransport infrastructure.and also perspective of its future development. \r\nCourse is oriented step by stransport. \r\nEutransport wayes,\r\n transport junctions is \r\ntransport wayes,\r\ntransport junctions is \r\nmost important connections, offered services and \r\ninternational cooperation in this areas\r\n \r\ntransportation Politics and Strategy on a practical implementation of transportation theory into the transportation systems for the sake of state interest, and its material online in the state interest is an interest in the sake of state interest.	system. The result of tep on railway, road, and terminals,\r\n<\int KZ croeconomics develdevelopment\r\n<\r\n<\rangle	its long-term water, aair, i>importan 4 opment. li>Status o
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17W1HO	Heuristic Methods in Optimization Problems	KZ	4
	w of heuristic methods, exact approaches for solving the Traveling Salesman Problem (TSP), Lagrangean approach, assign (VRP) - derivation from the TSP, classical heuristics solving the VRP, local search methods, Tabu Search method, genetic al		
its enhancements.	(VNF) - derivation from the 13F, classical neuristics solving the VNF, local search methods, fabu Search method, genetic an	gontinins in locatio	on problems and
15W1HL	History of Civil Aviation	KZ	4
	vil aviation as a part of transportation system. Developmental trends in plane construction, technical safety and control syste	ms in civil and sp	orts aviation.
	ent of aviation from planes lighter than air to current planes heavier than air in the context of a complex transportation system		
	zech, European and global conditions. The lectures are accompanied by various picture documents and maps, videos, muse	eum and specialise	ed workplaces
excursions.	History of City Dublic Transport	1/7	4
15W1HD History of city public tra	History of City Public Transport history of City Public Transport and trolley-bus systems. History of transport networks in the world; current trensport in the world; development of tram, bus and trolley-bus systems. History of transport networks in the world; current trensport in the	KZ	4 ent of tariff and
	ory of city transport in Prague and Brno. History of tram, bus and trolley-bus operation systems in the Czech Republic and S		one or tarm and
13W1HG	Economic Geography	KZ	4
The basic concepts of e	conomic geography - general approach. Geography of the world economy. Geography of inhabitants - as a factor of dislocati	on and developm	ent. Habitation
	ustrial production (energy, machinery, chemical and food industry). Agriculture, plant industry, animal industry, the world fishing	_	=
	all kinds of transportation, railway, road, naval, marine, tabular, air. Business travel - the main factors of dislocation and devel ansportation infrastructure all over the world (Europe, Asia, Africa, Australia and Oceanic).	lopment, the most	important world
15W1HE	Work Hygiene and Ergonomics in Traffic	KZ	4
_	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		
Practical examples from	the field of transportation; relevant legislature.		
16WKV	Car Bodies of Motor Vehicles	KZ	4
13W1KM	Crisis Management in Transportation	KZ	4
15W1LU	Logic of Engineer Judgement	KZ	4
	eer judgements: empirical, general and logical ones. Logical structure of the judgement. The intuitive and exact judgement and t		
	e judgement, methods of solving of the technical tasks, combinational nets. The predicate logic of the judgement, methods of . Logical base of the mathematical solution of technical tasks,the deductive and inductive aspects of judgement. Many-value	-	cal tasks. Design
17W1LL	Logistics of Passenger and Freight Air Transport	KZ	4
	ger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial t		
	stems in air transport. Global distribution systems.		. 0
13W1MR	Managerial Decision-making	KZ	4
	a clearly organised form a summary of knowledge and skills for solution of decision-making issues. It explains basic concepts o	-	
_	tion of decision-making issues in organisations, it provides logistics of multi-criteria decision-making and the choice of decis	ion-making metho	dologies for
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12W1VC	Waterways and shipping	KZ	4		
European waterway net, waterways parameters, ports and transshipment points, advantages and disadvantages of water transport, regulations of ship operation and waterways,					
shipping net in the Czech Republic and European countries, waterways authorities, investment in water infrastructure.					
12W1VD	Water Transport and Transportation	KZ	4		
17W1ZC	Tourist Business Transportation	KZ	4		
16W1ZL	Vehicle Testing, Legislation and Construction	KZ	4		
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 w	orld, creation of technical legislation, testing methods, vehicle tests, accelerated tests, mathematical modelling in testing.				

Name of the block: Jazyky

Minimal number of credits of the block: 8

The role of the block: J

Code of the group: J2B-B OD05/06 P+K

Name of the group: Jazyk 2.bl.bak.od 05/06 prez.+kombin.

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 at least 5 courses

Credits in the group: 8 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
15JA2B	Foreign Language - English (exam 2)	ZK	0			J
15J1A5	Foreign Language - English 5	Z	2	0+2		J
15J1A6	Foreign Language - English 6	Z	2	0+2		J
15J1A7	Foreign Language - English 7	Z	2	0+2		J
15J1A8	Foreign Language - English 8	Z,ZK	2	0+2		J
15JF2B	Foreign Language - French (exam 2)	ZK	0			J
15J1F5	Foreign Language - French 5	Z	2	0+2		J
15J1F6	Foreign Language - French 6	Z	2	0+2		J
15J1F7	Foreign Language - French 7	Z	2	0+2		J
15J1F8	Foreign Language - French 8	Z,ZK	2	0+2		J
15JN2B	Foreign Language - German (exam 2)	ZK	0			J
15J1N5	Foreign Language - German 5	Z	2	0+2		J
15J1N6	Foreign Language - German 6	Z	2	0+2		J
15J1N7	Foreign Language - German 7	Z	2	0+2		J
15J1N8	Foreign Language - German 8	Z,ZK	2	0+2		J
15JR2B	Foreign Language - Russian (exam 2)	ZK	0			J
15J1R5	Foreign Language - Russian 5	Z	2	0+2		J
15J1R6	Foreign Language - Russian 6	Z	2	0+2		J
15J1R7	Foreign Language - Russian 7	Z	2	0+2		J
15J1R8	Foreign Language - Russian 8	Z,ZK	2	0+2		J
15JS2B	Foreign Language - Spanish (exam 2)	ZK	0			J
15J1S5	Foreign Language - Spanish 5	Z	2	0+2		J
15J1S6	Foreign Language - Spanish 6	Z	2	0+2		J
15J1S7	Foreign Language - Spanish 7	Z	2	0+2		J
15J1S8	Foreign Language - Spanish 8	Z,ZK	2	0+2		J

Characteristics of the courses of this group of Study Plan: Code=J2B-B OD05/06 P+K Name=Jazyk 2.bl.bak.od 05/06 prez.+kombin.

	<u> </u>		
15JA2B	Foreign Language - English (exam 2)	ZK	0
15J1A5	Foreign Language - English 5	Z	2

The students of the Faculty of Transportation Sciences study two foreign languages one after another at the Department of Humanities. These courses aim at providing sufficient knowledge to communicate about every-day matters but also to read and write and discuss professional and specialised issues.
 Both gradually chosen language courses are ended with an exam (at the end of 4th and 8th semester; the TL (Air Traffic Control) specialisation students take an English exam only - at the end of 4th semester; the PP (Professional Pilot) specialisation students take two exams in English - at the end of 4th and 6th semester). Those students who want to apply for the Air Traffic specializations are recommended to enrol "English language" as their first choice. This is, however, not a guarantee for being excepted in the project study.
 Our department provides courses in English, German, French and Russian at different levels. The courses are also taught in our multimedia laboratory.

15J1A6	Foreign Language - English 6	Z	2
	Ity of Transportation Sciences study two foreign languages one after another at the Department of Humanities. These course ate about every-day matters but also to read and write and discuss professional and specialised issues. Both gra	•	·
•	(at the end of 4th and 8th semester; the TL (Air Traffic Control) specialisation students take an English exam only - at the en	•	• •
	ialisation students take two exams in English - at the end of 4th and 6th semester). Those students who want to apply for the	•	
	English language" as their first choice. This is, however, not a guarantee for being excepted in the project study. & It; br> on the first choice. The courses are also taught in our multimedia laboratory.	Our department p	rovides courses
15J1A7	Foreign Language - English 7	Z	2
The students of the Fac	alty of Transportation Sciences study two foreign languages one after another at the Department of Humanities. These course	ا es aim at providir	g sufficient
•	ate about every-day matters but also to read and write and discuss professional and specialised issues. Both gra (at the end of 4th and 8th semester; the TL (Air Traffic Control) specialisation students take an English exam only - at the en	•	• •
	ialisation students take two exams in English - at the end of 4th and 6th semester). Those students who want to apply for the		<i>'</i>
	English language" as their first choice. This is, however, not a guarantee for being excepted in the project study. < br>	•	
	nch and Russian at different levels. The courses are also taught in our multimedia laboratory.	7 714	
15J1A8 The students of the Fac	Foreign Language - English 8 Ulty of Transportation Sciences study two foreign languages one after another at the Department of Humanities. These cours	Z,ZK	2
	ate about every-day matters but also to read and write and discuss professional and specialised issues. Both gra		-
	(at the end of 4th and 8th semester; the TL (Air Traffic Control) specialisation students take an English exam only - at the en		
	ialisation students take two exams in English - at the end of 4th and 6th semester). Those students who want to apply for the	•	
	English language" as their first choice. This is, however, not a guarantee for being excepted in the project study. & It; br> on the first choice. The courses are also taught in our multimedia laboratory.	our department p	TOVIDES COUISES
15JF2B	Foreign Language - French (exam 2)	ZK	0
15J1F5	Foreign Language - French 5	Z	2
	ulty of Transportation Sciences study two foreign languages one after another at the Department of Humanities. These cours		-
•	ate about every-day matters but also to read and write and discuss professional and specialised issues. Both gra (at the end of 4th and 8th semester; the TL (Air Traffic Control) specialisation students take an English exam only - at the en	•	• •
	ialisation students take two exams in English - at the end of 4th and 6th semester). Those students who want to apply for the		
	English language" as their first choice. This is, however, not a guarantee for being excepted in the project study. 	Our department p	rovides courses
	nch and Russian at different levels. The courses are also taught in our multimedia laboratory.	7	
15J1F6 The students of the Fac	Foreign Language - French 6 Ulty of Transportation Sciences study two foreign languages one after another at the Department of Humanities. These cours	Z es aim at providir	2 a sufficient
	ate about every-day matters but also to read and write and discuss professional and specialised issues. Both gra		-
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	ialisation students take two exams in English - at the end of 4th and 6th semester). Those students who want to apply for the	-	
		Jur danartmant n	rovidos coursos
	English language" as their first choice. This is, however, not a guarantee for being excepted in the project study. (nch and Russian at different levels. The courses are also taught in our multimedia laboratory.	Our department p	rovides courses
		Our department p	rovides courses
in English, German, Fre 15J1F7 The students of the Fac	nch and Russian at different levels. The courses are also taught in our multimedia laboratory. Foreign Language - French 7 Ulty of Transportation Sciences study two foreign languages one after another at the Department of Humanities. These courses	Z es aim at providir	2 ng sufficient
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in English, German, Fre 15J1F7 The students of the Fac knowledge to communic are ended with an exam	nch and Russian at different levels. The courses are also taught in our multimedia laboratory. Foreign Language - French 7 Ulty of Transportation Sciences study two foreign languages one after another at the Department of Humanities. These courses	Z es aim at providir adually chosen lar d of 4th semester	2 ng sufficient nguage courses r; the PP
in English, German, Fre 15J1F7 The students of the Fac knowledge to communic are ended with an exam (Professional Pilot) spec	Foreign Language - French 7 Ulty of Transportation Sciences study two foreign languages one after another at the Department of Humanities. These cours ate about every-day matters but also to read and write and discuss professional and specialised issues. & Both gra (at the end of 4th and 8th semester; the TL (Air Traffic Control) specialisation students take an English exam only - at the end.	Z es aim at providir adually chosen lar d of 4th semester Air Traffic specia	2 g sufficient nguage courses r; the PP llizations are
in English, German, Fre 15J1F7 The students of the Facknowledge to communicare ended with an exame (Professional Pilot) specended to enrol "en English, German, Fre	roch and Russian at different levels. The courses are also taught in our multimedia laboratory. Foreign Language - French 7 ulty of Transportation Sciences study two foreign languages one after another at the Department of Humanities. These course ate about every-day matters but also to read and write and discuss professional and specialised issues. Both gra (at the end of 4th and 8th semester; the TL (Air Traffic Control) specialisation students take an English exam only - at the en ialisation students take two exams in English - at the end of 4th and 6th semester). Those students who want to apply for the English language" as their first choice. This is, however, not a guarantee for being excepted in the project study. onch and Russian at different levels. The courses are also taught in our multimedia laboratory.	Z es aim at providir adually chosen lar d of 4th semester Air Traffic specia Our department p	2 g sufficient nguage courses ; the PP dizations are rovides courses
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The students of the Fac knowledge to communic are ended with an exam (Professional Pilot) spec recommended to enrol	ulty of Transportation Sciences study two foreign languages one after another at the Department of Humanities. These cours rate about every-day matters but also to read and write and discuss professional and specialised issues. Both gr. (at the end of 4th and 8th semester; the TL (Air Traffic Control) specialisation students take an English exam only - at the ericalisation students take two exams in English - at the end of 4th and 6th semester). Those students who want to apply for the English language" as their first choice. This is, however, not a guarantee for being excepted in the project study. nch and Russian at different levels. The courses are also taught in our multimedia laboratory.	es aim at providing adually chosen lan ad of 4th semester; e Air Traffic special	g sufficient guage courses the PP izations are
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knowledge to communic issues. &n TL (Air Traffic Control) s at the end of 4th and 6th however, not a guarante	hate about every-day matters but also to read and write and discuss professional and specialised absp; Both gradually chosen language courses are ended with an exam (at the pecialisation students take an English exam only - at the end of 4th semester; the PP (Professional Pilot) specialisation students students who want to apply for the Air Traffic specializations are recommended to enrol "English language for being excepted in the project study. &am	e end of 4th and 8t ents take two exan e" as their first cho	h semester; the ns in English - ice. This is,
15J1S8	Foreign Language - Spanish 8	Z,ZK	2
knowledge to communic issues. &n TL (Air Traffic Control) s at the end of 4th and 6th however, not a guarante	culty of Transportation Sciences study two foreign languages one after another at the Department of Humanities. These course ate about every-day matters but also to read and write and discuss professional and specialised absp; Both gradually chosen language courses are ended with an exam (at the pecialisation students take an English exam only - at the end of 4th semester; the PP (Professional Pilot) specialisation students take an English exam only - at the end of 4th semester; the PP (Professional Pilot) specialisation students are recommended to enrol "English language for being excepted in the project study. @amp;nbsp;Our departments at different levels. The courses are also taught in our multimedia laboratory.	e end of 4th and 8t ents take two exan e" as their first cho	h semester; the ns in English - ice. This is,

List of courses of this pass:

Code	Name of the course	Completion	Credits
11MSAP	Modeling of Systems and Processes	Z,ZK	4
	duces mathematical methods and algorithms providing an essential tool for system analysis. Methods and algorithms represent conte	-	
	lluated in continuous and discrete time domain. The Laplace transform, z-transform, and the recursive algorithms are introduced in ord I and difference equations, which are developed for system description. The course focuses on practical use of technical computing e		
11MST	Mathematical Statistics	Z,ZK	2
	roperties of point estimators (consistency, unbiasedness, efficiency), methods of point estimation (method of moments, maximum likelih		
_	I hypothesis, critical values, choice of hypothesis and level of significance, observed level of significance (P-value). Goodness of fit test, in	=	_
and correlation, iii	near regression, correlation coefficient, coefficient of determination, the general linear model, statistical inference in linear regression, regression, the use of matrices in regression.	analysis of variand	ce, munipie
11W1MM	Mathematical Models in Economy	KZ	4
	ected to linear constraints leading to linear programming. Models of net analysis, storage models, queue lengths models. Theory of reliab		
	convex optimisation tasks.		
11X17K	Seminar for Bachelor Thesis 1	Z	2
11X18K	Seminar for Bachelor Thesis 2	Z	6
11YAS		Z,ZK	3
12W1PC	Pedestrian and Cycling Transport	KZ	4
12W1VC	Waterways and shipping	KZ	4
European waterv	way net, waterways parameters, ports and transshipment points, advantages and disadvantages of water transport, regulations of shi	p operation and w	aterways,
101111115	shipping net in the Czech Republic and European countries, waterways authorities, investment in water infrastructure.	147	
12W1VD	Water Transport and Transportation	KZ_	4
12X17K	Seminar for Bachelor Thesis 1	Z	2
12X18K	Seminar for Bachelor Thesis 2	Z	6
13EDT	Transportation and Telecommunication Economics	Z,ZK	4
· · · · · · · · · · · · · · · · · · ·	cated to analytical and synthetically views of economic activities, both the production and services business systems. The main interest		-
•	decision-making processes by future engineers, technologists and managers. The property and financial structures create the basic e attention is concentrated on time life cycle of product and service, quantification economic time life, depreciation and methods of its		
	y question of business activities is provided and basic mathematical inventory models are given. The core of entrepreneurial process -	-	
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	id benefit are put to the main interest of engineer and manager together with structure of dusiness plan, entrepreneurial projects and	their analysis and	evaluation
	and benefit are put to the main interest of engineer and manager together with structure of business plan, entrepreneurial projects and Finally, the characteristics of time life business cycle from the start of activities to the end these ones are discussed.	their analysis and	evaluation
		their analysis and Z,ZK	evaluation.
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, revenue, profit and 13EFI 13MDT Analysing the ma and marketing results business buying be new products. Promotion 13MSPK The aim of this country and in the Cz European Union of 13PAZ The aim of the subjective of technical procedure the accounting boot 13W1EA Vehicle traction sys	Finally, the characteristics of time life business cycle from the start of activities to the end these ones are discussed. Enterprise Economics Marketing in Transport.and Telecommunications rketing process. The core concepts of marketing. Understanding the role of marketing in organisations. Marketing management. Mark search. Analysing the marketing environment (macro and microenvironment). Analysing consumer markets and buyer behaviour. Analysing the market offer marketing mix. Deviate life cycles and strategies. Product lines, brands and packaging. Designing pricing strategies and programs. Selecting marketing on and communication mix strategies. Sales promotion, advertising, public relations, programs, personal sale. Corporate business strate strategic planning. Marketing in services and non-profit organisations. Small and Medium-sized Enterprise urse is to point out the small business as an important element of global economy. Through this subject the entrepreneurship and dynteck Republic under technology and economic conditions is discussed. The role of venture capital for development of small enterprise rganisation is shown. Finally, analysis and synthesis of steps needed for successfully goals of entrepreneurship taking a business plandescribed. Transportation and Forwarding Business ect is to make the students acquainted with the basis of transportation processes technology, with the conditions for particular kinds of the relationships on transport (inland and international) and on forwarding business. Operational Economy Accounting the subject is to master the basics of accounting in the individual accounting domains on a basis of knowledge of the accounting rule less) and accounting procedures. Furthermore, students will become familiar with importance to accounting in practice, of the accounting ks and with accounting systems including organisation of the accounting and administration and processing of accounting on compute the basic bindings to tax and managerial accounting (in-house). Ec	Z,ZK Z,ZK eting of informatio lysing business mandlysing business mandlysing, testing and hannels. Physical regic planning. Mark ZK mamic entrepreneutes using the materian as a productive for a	3 4 n systems arkets and id launching distribution ket orienter 4 rship in the ial of EVCA method are 3 engagemen 3 4 (including inistration calso include
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13EFI 13MDT Analysing the ma and marketing res business buying be new products. Prod systems. Promotion 13MSPK The aim of this con world and in the Cz European Union o 13PAZ The aim of the subjective of technical procedure the accounting boo 13W1EA Vehicle traction sys 13W1EP The contents of the system of the state 13W1HG The basic conception	Finally, the characteristics of time life business cycle from the start of activities to the end these ones are discussed. Enterprise Economics Marketing in Transport.and Telecommunications rketing process. The core concepts of marketing. Understanding the role of marketing in organisations. Marketing management. Mark search. Analysing the marketing environment (macro and microenvironment). Analysing consumer markets and buyer behaviour. Ana shaviour. Identifying market segments and selecting target markets. Differentiating and positioning the market offer marketing mix. Devuct life cycles and strategies. Product lines, brands and packaging. Designing pricing strategies and programs. Selecting marketing of an and communication mix strategies promotion, advertising, public relations, programs, personal sale. Corporate business strate strategic planning. Marketing in services and non-profit organisations. Small and Medium-sized Enterprise urse is to point out the small business as an important element of global economy. Through this subject the entrepreneurship and dyn described. Transportation is discussed. The role of venture capital for development of small enterprise reganisation is shown. Finally, analysis and synthesis of steps needed for successfully goals of entrepreneurship taking a business pla described. Transportation and Forwarding Business ect is to make the students acquainted with the basis of transportation processes technology, with the conditions for particular kinds of trelationships on transport (inland and international) and on forwarding business. Operational Economy Accounting the subject is to master the basics of accounting in the individual accounting domains on a basis of knowledge of the accounting ks and with accounting procedures. Furthermore, students will become familiar with importance to accounting in practice, of the accounting ks and with accounting systems including organisation of the accounting and administration and processing of accounting on compute the basic bin	Z,ZK Z,ZK eting of informatio lysing business mandlysing business mandlysing, testing and hannels. Physical regic planning. Mark ZK mamic entrepreneutes using the materian as a productive for a	3 4 n systems arkets and id launching distributions ket oriented 4 rship in the ial of EVCA method are 3 engagemen 3 4 (including inistration o also include 4 -economica ctronic and 4 Habitation
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13EFI 13MDT Analysing the ma and marketing res business buying be new products. Prod systems. Promotion 13MSPK The aim of this con world and in the Cz European Union of 13PAZ The aim of the subjective of technical procedure the accounting boo 13W1EA Vehicle traction sys 13W1EP The contents of the system of the state 13W1HG The basic concept structure. The wo	Finally, the characteristics of time life business cycle from the start of activities to the end these ones are discussed. Enterprise Economics Marketing in Transport. and Telecommunications rketing process. The core concepts of marketing. Understanding the role of marketing in organisations. Marketing management. Mark search. Analysing the marketing environment (macro and microenvironment). Analysing consumer markets and buyer behaviour. Ana shaviour. Identifying market segments and selecting target markets. Differentiating and positioning the market offer marketing mix. Dev tuet life cycles and strategies. Product lines, brands and packaging. Designing pricing strategies and programs. Selecting marketing of an and communication mix strategies. Sales promotion, advertising, public relations, programs, personal sale. Corporate business strate strategic planning. Marketing in services and non-profit organisations. Small and Medium-sized Enterprise urse is to point out the small business as an important element of global economy. Through this subject the entrepreneurship and dyn tech Republic under technology and economic conditions is discussed. The role of venture capital for development of small enterprise granisation is shown. Finally, analysis and synthesis of steps needed for successfully goals of entrepreneurship taking a business pla described. Transportation and Forwarding Business ect is to make the students acquainted with the basis of transportation processes technology, with the conditions for particular kinds of tre relationships on transport (inland and international) and on forwarding business. Operational Economy Accounting the subject is to master the basics of accounting in the individual accounting domains on a basis of knowledge of the accounting ks and with accounting procedures. Furthermore, students will become familiar with importance to accounting in practice, of the accounting the basic bindings to tax and managerial accounting (in-house). Economic - Energetic Analysis of Land T	Z,ZK Z,ZK eting of informatio lysing business mandlysing business mandlysing, testing and hannels. Physical regic planning. Mark ZK mamic entrepreneutes using the materian as a productive for a	3 4 n systems arkets and id launching distributions ket oriented 4 rship in the ial of EVCA method are 3 engagemen 3 4 (including inistration of also include 4 -economica ctronic and 4 Habitation my. Power
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13W1MR	Managerial Decision-making	KZ	4
	es in a clearly organised form a summary of knowledge and skills for solution of decision-making issues. It explains basic concepts of de for solution of decision-making issues in organisations, it provides logistics of multi-criteria decision-making and the choice of decision-making and d	-	
13W1PD	The Participation of Transport in Tourist Trade Management	KZ	4
	port, typology, market, marketing mix, transport service providers, contract cooperation, reservation systems, transport valuables, sta carriers, IATA, ICAO, road, water, rail transport.		1
13W1PM	Personal Management	KZ	4
	f leadership issue from the viewpoint of an employee as well as a manager. The accent at the experience of basic situations through		I
	rsonal management, the assessment as a process, SWOT analysis, basic principles of personal management, theory and practice of mo styles.	_	-
13W1SM	MESE Simulation	KZ	4
	e simulating corporate decision making. Groups of students produce the same product, give the volume of available production capaci	· · · · · · · · · · · · · · · · · · ·	1
g	research and development.	-y, p	· ···-g,
13W1TC	Techniques of Travel Services	KZ	4
	rism for human consumption and for the national economy\r\nServices of tourism - basic and others Transportation services,\r\nAccor		1
,	beverage services, Catering Travel\r\nagencies and their activities.		,
13X17K	Seminar for Bachelor Thesis 1	Z	2
13X18K	Seminar for Bachelor Thesis 2	Z	6
14DAPS	Database and Presentation Systems	KZ	2
	Batabase and Flesentation Systems . E-R data model, relational data model, relational databases. Creation of a simple database application in the MS ACCESS environm		l .
Database systems.	by help of the PowerPoint environment - static snaps, simple animations, linking with other applications.	ient. Creation of pi	resentations
14IFS	Information Systems	ZK	4
_	information Systems pialized in theoretic and practical design resources and principles and information systems (IS) creation and realization. Students get kn		-
	logy, classification and characterization (process, transaction, knowledge, metainformation, etc.), IS projecting procedures, data/information and characterization (process, transaction, knowledge, metainformation, etc.), IS projecting procedures, data/information.	-	
-	p of data structures, database systems and models. They obtain view of IS and information technologies technical infrastructure trend		_
	ooses, human role in IS and possibilities of IS evaluation. In brief, they acquaint themselves with creation principles, architecture and sta system.		
14IP1	Tutorial in Informatics 1	7	2
	olves introductory theoretical part (basic terminology from information technologies, information theory, computer terminology, data day	mage protection,	I
destruction, protect	tion of computer network, security and legal problems relevant to information technologies, copyright and data protection law, compute	r criminality) and p	ractical part
	according to the specialization.		
14IP2	Tutorial in Informatics 2	KZ	2
Knowledge system	'ns. Expert systems and programmes based on knowledge, their architecture, knowledge representation, basic derivation and impleme	entation methods.	Interface for
knowledge systems	s creation andt their design principles. Certainty and uncertainty in knowledge systems and different approaches to them. Common m	adal of balances a	
Knowledge system.	s creation and their design principles. Certainty and uncertainty in knowledge systems and unlerent approaches to them. Common in	lodel of balances d	combination,
Knowledge system.	fuzzy logics. Knowledge base design methods. Database and knowledge systems and their rules.	odei oi balances c	combination,
14SSS		KZ	combination,
14SSS Acquaintance with	fuzzy logics. Knowledge base design methods. Database and knowledge systems and their rules. Networks and Network Operating Systems operating and possibilities of computer networks and their services utilize is the subject target. Network topology, IP addressing, WAN ne	KZ tworks, connection	2 information
14SSS Acquaintance with	fuzzy logics. Knowledge base design methods. Database and knowledge systems and their rules. Networks and Network Operating Systems operating and possibilities of computer networks and their services utilize is the subject target. Network topology, IP addressing, WAN ne Detailed familiarity with selected WIN NT, Novell, and Unix network environment in the second semester part. Introduction to server	KZ tworks, connection and workstations i	2 information
14SSS Acquaintance with (ping, trace route)	fuzzy logics. Knowledge base design methods. Database and knowledge systems and their rules. Networks and Network Operating Systems operating and possibilities of computer networks and their services utilize is the subject target. Network topology, IP addressing, WAN network and their services utilize is the subject target. Network topology, IP addressing, WAN network and familiarity with selected WIN NT, Novell, and Unix network environment in the second semester part. Introduction to server users and groups creation, folder structure creation, disc mapping, users protection, folders security, network printing, network services.	KZ tworks, connectior and workstations i ecurity.	2 n information installation,
14SSS Acquaintance with (ping, trace route)	fuzzy logics. Knowledge base design methods. Database and knowledge systems and their rules. Networks and Network Operating Systems operating and possibilities of computer networks and their services utilize is the subject target. Network topology, IP addressing, WAN network and Interest in the second semester part. Introduction to server users and groups creation, folder structure creation, disc mapping, users protection, folders security, network printing, network security. Telecommunications	KZ tworks, connection and workstations i ecurity. Z,ZK	2 information installation,
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 Our department provides courses in English, German, French and Russian at different levels. The courses are also taught in our multimedia laboratory. 15J1F5 Foreign Language - French 5 Ζ 2 The students of the Faculty of Transportation Sciences study two foreign languages one after another at the Department of Humanities. These courses aim at providing sufficient knowledge to communicate about every-day matters but also to read and write and discuss professional and specialised issues.
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 Our department provides courses in English, German, French and Russian at different levels. The courses are also taught in our multimedia laboratory. 15J1F6 Foreign Language - French 6 2 The students of the Faculty of Transportation Sciences study two foreign languages one after another at the Department of Humanities. These courses aim at providing sufficient knowledge to communicate about every-day matters but also to read and write and discuss professional and specialised issues.
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 Our department provides courses in English, German, French and Russian at different levels. The courses are also taught in our multimedia laboratory. 15J1F7 Foreign Language - French 7 The students of the Faculty of Transportation Sciences study two foreign languages one after another at the Department of Humanities. These courses aim at providing sufficient knowledge to communicate about every-day matters but also to read and write and discuss professional and specialised issues.
 Both gradually chosen language courses are ended with an exam (at the end of 4th and 8th semester; the TL (Air Traffic Control) specialisation students take an English exam only - at the end of 4th semester; the PP (Professional Pilot) specialisation students take two exams in English - at the end of 4th and 6th semester). Those students who want to apply for the Air Traffic specializations are recommended to enrol "English language" as their first choice. This is, however, not a guarantee for being excepted in the project study.
 Our department provides courses in English, German, French and Russian at different levels. The courses are also taught in our multimedia laboratory. 15J1F8 Foreign Language - French 8 The students of the Faculty of Transportation Sciences study two foreign languages one after another at the Department of Humanities. These courses aim at providing sufficient knowledge to communicate about every-day matters but also to read and write and discuss professional and specialised issues.
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15W1HD	History of City Public Transport	KZ	4
History of city publ	ic transport in the world; development of tram, bus and trolley-bus systems. History of transport networks in the world; current trends	and development of	of tariff and
cleara	ince systems. History of city transport in Prague and Brno. History of tram, bus and trolley-bus operation systems in the Czech Repub	ilic and Slovakia.	
15W1HE	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 f	actors on health of	f workers.
	ction of working conditions that do not damage public health. Mutual links: man-machine-environment. Adaptation of technology to po		
	Practical examples from the field of transportation; relevant legislature.		
15W1HL	History of Civil Aviation	KZ	4
	w of civil aviation as a part of transportation system. Developmental trends in plane construction, technical safety and control systems		s aviation.
	relopment of aviation from planes lighter than air to current planes heavier than air in the context of a complex transportation system of	•	
and sport activities	s in Czech, European and global conditions. The lectures are accompanied by various picture documents and maps, videos, museum	and specialised v	vorkplaces
	excursions.		
15W1LU	Logic of Engineer Judgement	KZ	4
Components of an i	ngeneer judgements: empirical, general and logical ones. Logical structure of the judgement. The intuitive and exact judgement and the n	atural and exact lar	nguage.The
propositional logic	of the judgement, methods of solving of the technical tasks, combinational nets. The predicate logic of the judgement, methods of solv	ing of technical ta	sks. Design
of the sequ	entional nets. Logical base of the mathematical solution of technical tasks, the deductive and inductive aspects of judgement. Many-vi	alued and fuzzy lo	gic.
15W1OC	Crucial Moments of Czechs	KZ	4
The contemporary	view of crucial moments of the more than a thousand-year long history of western Slavs in Central Europe stressing the relations wit	th bordering nation	ns and with
•	e. Formation and strengthening of the P emysl state. The lands of the Czech Crown as a part of the Habsburgh monarchy. Political pro	•	
and formation of	of Czechoslovakia. Disputes over the sense of Czech history. Changes of the power structure of Europe in the 20th century regarding	the position of our	r lands.
15X17K	Seminar for Bachelor Thesis 1	Z	2
15X18K	Seminar for Bachelor Thesis 2	Z	6
16W1PV	Operation, Construction and Maintenance of Vehicles	KZ	4
-	production. Vehicle maintenance. Vehicle diagnostics. Maintenance and repair plans. Engine maintenance and emission measureme		nechanism.
	General principles of engine diagnostics.		
16W1TJ	Technological Quality Aspects	KZ	4
Certification and ac	reditation. Quality management. Standards of Quality Management and its application. Quality system creation. Tools and methods of qu	ality improvement.	. Conformity
	verification. Environmental certification. Workplace certification. QMS integration. Classification, certification of products and products	ucers.	
16W1TR	Theory of Railroad Vehicle Driving	KZ	4
Legislation in railr	oad transportation. Technical condition of railroad vehicles and responsibility for their condition. Railroad traffic regulations. Railroad t	raffic safety. Signal	l systems.
	Radiocommunication system. Powering system. Power distribution.		
16W1TZ	Transporting Devices	KZ	4
Flow of masses, m	aterial transport technology, loose material transport - conveyors with tractive elements, conveyors without tractive elements, transport	rt of piece material	l - continual
transpo	rt devices, cyclic transport devices, crane mechanisms, steel constructions. Vertical transport, transport in mines, long-distance conve	yor belt transport.	
16W1ZL	Vehicle Testing, Legislation and Construction	KZ	4
Vehicle costruction	n, aggregate computing, driving resistance, building and parameters of traction, constructional arrangement of personal cars, trucks, b	ouses, motorbikes,	legislation
	in the EU and in the world, creation of technical legislation, testing methods, vehicle tests, accelerated tests, mathematical modelling	in testing.	
16WKV	Car Bodies of Motor Vehicles	KZ	4
16X17K	Seminar for Bachelor Thesis 1	Z	2
16X18K	Seminar for Bachelor Thesis 2	Z	6
17DOU	Public Transport Service	Z,ZK	4
17EMM	Economic-mathematical Models	ZK	3
17FF	Finances and Funds	Z,ZK	4
	ented to the problems of finance, financial markets and institutions. It analyses the credit and the saving financial policy as well as var	· .	•
	s and borrowers. Direct and portfolio investment, their strong and weak points and risks. Business companies from the view of financial		
	ck companies, the position of shareholders, various types of shares, dividends. Financial plans, the use of financial instrument combin		-
	loans, bond emissions and capital raise. The problems of bills of exchange, bankruptcy and composition and of international investigations.	stment.	
17LGS	Logistics	Z,ZK	4
	nanagerial system of circular and transfer flows, logistics form new ways of partnership between production and business organization		d material
and information car	riers on the other hand. This subject is focused on: \r\n \r\nConcept of logistics, its development and principles	s\r\n Logist	ics systems
units, logistics chair	n\r\n Logistics coupling, logistics methods and technologies, decision making in the logistics managerial systems\r\nN	larketing as a basi	c tool in the
logistics manageria	ll systems, marketing survey, marketing offer, marketing evaluation techniques and completion marketing planning\r\n Status o	f transportation in t	the logistics
	system\r\n Information flows in the logistics chain\r\n		
17MEAN	Methods of Economic Analyses	Z,ZK	4
The course compre	hends the problems of numerical representation of economical phenomena by systems of indicators and their analysis and interpretation	n. The analysis of de	ependence,
	time series and indices is emphasised.		
17RP	Project Management	ZK	2
	students acquainted first with project, its participants and their target behaviour, then with the project cycle and the principles of project	_	
of project assessme	ent, principles of optimal scenario choice, risks and uncertainties of choice. The possibilities of project funding, the methodology of Wol	1d Bank and the m	anagement
1	of supranational projects.		
17TEC	Technology of Transport	Z,ZK	4
Course deals with f			the defined
	oundations of technology and management of transportation proceses. It is concerning mainly in way and organization transfer of pers	ŭ	lile delilled
transpo	ort network by moving of transport means through the transport ways. It connects on knowledges of transport and handling tools from	tke first period of	
transpo study. <b< td=""><td>ort network by moving of transport means through the transport ways. It connects on knowledges of transport and handling tools from or >\r\nStudy is concerning on these questions from technology of single sorts of transportation:\r\n\r\n<il>most important important or the second of the second of transportation or the second of transportation or transportation or transportation or the second of transport and the second of transport and the second or transport and transport and the second or transport and transp</il></td><td>tke first period of tant terms of transf</td><td>fer process,</td></b<>	ort network by moving of transport means through the transport ways. It connects on knowledges of transport and handling tools from or >\r\nStudy is concerning on these questions from technology of single sorts of transportation:\r\n \r\n<il>most important important or the second of the second of transportation or the second of transportation or transportation or transportation or the second of transport and the second of transport and the second or transport and transport and the second or transport and transp</il>	tke first period of tant terms of transf	fer process,
transpo study. <b< td=""><td>ort network by moving of transport means through the transport ways. It connects on knowledges of transport and handling tools from or>\r\nStudy is concerning on these questions from technology of single sorts of transportation:\r\n\r\nmost importusing indicators,\r\ncombination and integration of sorts of transportation and integration of sorts of transport ways.</td><td>tke first period of tant terms of transf of transportation int</td><td>fer process,</td></b<>	ort network by moving of transport means through the transport ways. It connects on knowledges of transport and handling tools from or>\r\nStudy is concerning on these questions from technology of single sorts of transportation:\r\n \r\nmost importusing indicators,\r\ncombination and integration of sorts of transportation and integration of sorts of transport ways.	tke first period of tant terms of transf of transportation int	fer process,
transpo study. <b particularities,and u</b 	ort network by moving of transport means through the transport ways. It connects on knowledges of transport and handling tools from or>\r\nStudy is concerning on these questions from technology of single sorts of transportation:\r\n \r\nmost impor- using indicators,\r\nmaking and using of basing technologic plans and tools,\r\ncombination and integration of sorts of systems,\r\nusing knowledges of system analyses and kybernetics in management of transportation process\r\n<td>tke first period of tant terms of transfor f transportation int ></td><td>fer process, to transport</td>	tke first period of tant terms of transfor f transportation int >	fer process, to transport
transpo study. <b particularities,and u 17W1AF</b 	ort network by moving of transport means through the transport ways. It connects on knowledges of transport and handling tools from or>\r\nStudy is concerning on these questions from technology of single sorts of transportation:\r\n \r\nmost impor- using indicators,\r\nmaking and using of basing technologic plans and tools,\r\ncombination and integration of sorts of systems,\r\nusing knowledges of system analyses and kybernetics in management of transportation process\r\nAlternative Forms of Transportation Project Financing	tke first period of tant terms of transf of transportation int >	fer process, to transport
transpo study. <b particularities,and u 17W1AF It will be specifed s</b 	ort network by moving of transport means through the transport ways. It connects on knowledges of transport and handling tools from or>\r\nStudy is concerning on these questions from technology of single sorts of transportation:\r\n \r\nmost importusing indicators,\r\nmaking and using of basing technologic plans and tools,\r\ncombination and integration of sorts of systems,\r\nusing knowledges of system analyses and kybernetics in management of transportation process\r\n<td>tke first period of tant terms of transf of transportation int > KZ Iget, but the final de</td><td>fer process, to transport 4 ebtor is not</td>	tke first period of tant terms of transf of transportation int > KZ Iget, but the final de	fer process, to transport 4 ebtor is not
transpo study. <b particularities,and u 17W1AF It will be specifed s</b 	ort network by moving of transport means through the transport ways. It connects on knowledges of transport and handling tools from or>\r\nStudy is concerning on these questions from technology of single sorts of transportation:\r\n \r\nmost impor- using indicators,\r\nmaking and using of basing technologic plans and tools,\r\ncombination and integration of sorts of systems,\r\nusing knowledges of system analyses and kybernetics in management of transportation process\r\nAlternative Forms of Transportation Project Financing	tke first period of tant terms of transf of transportation int > KZ Iget, but the final de	fer process, to transport 4 ebtor is not

17W1BB	Banks and Banking	KZ	4
	system. Balance sheet, income statement, bank's capital and its functions. Banking risks. Banking products. Interest types, pay-off ar		
	deposit products. Banking payment-clearing products. Financial intermediation, open-end and closed-end funds, collective investment	•	
,	its role. Bank regulation and supervision. International banking.		
17W1DG	Transport Geography	KZ	4
	Transport geography briefly describes transport system and reciprocal relations between economic development and transport system		ts long-term
relations is specifi	ic configuration of transport infrastructure.and also perspective of its future development. \r\nCourse is oriented step by step	on railway, road,	water, aair,
• •	e transport. There are lectures there about:\r\n \r\ntransport wayes,\r\ntransport junctions and to		gt;importannt
	ternational crossings\r\n most important connections, offered services and \r\ninternational cooperation in this areas	\r\n	
17W1DN	Carriage of Dangerous Goods	KZ	4
17W1DP	Transportation Politics and Strategy	KZ	4
_	uses on a practical implementation of transportation theory into the transportation systems for the sake of state interest, and its maci		
•	rmonizes EU and Czech directives. Closely this subject focuses on: \r\n \r\nCzech Transportation policy dev	•	
	on in the macroeconomics system\r\n Creation and regulation of transportation market by direct and indirect instruments in far	•	
	Comparison and harmonization of Czech and EU directives on the transportation market\r\n Defining of constant tenable mobilit tives, approaches\r\nNational transportation system planning according to the constant tenable mobility, and with respect to		
_	nparison of Czech and EU strategies\r\n Legislative harmonization (Czech, EU) on the transportation field, progress in the tin		-
obligatione, the con	Republic's entrance on EU integrated transportation market\r\n	io ii ii iait,iiagt, ioii	110 101 020011
17W1DZ	Transported Commodities Cognization	KZ	4
	tuality. Testing. Standardization. Features relevant for the transport. Packing. Stress. Protection of goods and damage prevention during	ng the carriage. O	ptimization
	of the choice and effective transport means utility.		
17W1HO	Heuristic Methods in Optimization Problems	KZ	4
Introduction and ov	verview of heuristic methods, exact approaches for solving the Traveling Salesman Problem (TSP), Lagrangean approach, assignment	nt problem, algori	thm of Little,
vehicle routing prob	olem (VRP) - derivation from the TSP, classical heuristics solving the VRP, local search methods, Tabu Search method, genetic algori	thms in location p	roblems and
	its enhancements.		
17W1LL	Logistics of Passenger and Freight Air Transport	KZ	4
Logistics airline pas	ssenger and cargo. Aircraft and airport terminals for passenger and cargo transport. Airlines in terms of logistics systems. Aerial trans	sport process pas	sengers and
4714415	air cargo. Information systems in air transport. Global distribution systems.	147	
17W1ND	Maritime Transportation	KZ	4
	ance of the maritime transportation, theoretical discipline in maritime transportation, seafaring vessels, maritime ports and their utiliza sport corridors and link by maritime, river and rail transport I and II, global maritime corridors, logistics of maritime transportation, mar		
manume ports, train	containers, ITS in maritime transport.	mine transportation	on and smart
17W1ZC	Tourist Business Transportation	KZ	4
17X17K	Seminar for Bachelor Thesis 1	Z	2
17X18K	Seminar for Bachelor Thesis 2	Z	6
17ZTD	Introduction to Theory of Transport	Z.ZK	4
18X17K	Seminar for Bachelor Thesis 1	Z,ZR	2
18X17K	Seminar for Bachelor Thesis 1	Z	6
20SANL		Z,ZK	4
	Systems Analysis es of systemic features, means of detection of systemic characteristics, ways, decomposition, boundary and structure of systems, systems.	,	
woders and analyse	processes, disgram characteristics, fuzzy sets/equations, formulation of states underindistinctly defined conditions, stability of sy		ision-making
20X17K	Seminar for Bachelor Thesis 1	Z	2
20X17K	Seminar for Bachelor Thesis 1	Z	6
21X17K	Seminar for Bachelor Thesis 2 Seminar for Bachelor Thesis 1	Z	2
21X17K 21X18K	Seminar for Bachelor Thesis 2	Z	6
		Z	
22X17K	Seminar for Bachelor Thesis 1		2

For updated information see http://bilakniha.cvut.cz/en/FF.html Generated: day 2024-03-29, time 14:52.