Study plan

Name of study plan: B-EK-prez.forma od 10/11

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch:

Program of study: Economy and Management

Type of study: Bachelor full-time

Required credits: 180 Elective courses credits: 0 Sum of credits in the plan: 180

Note on the plan:

Name of the block: Compulsory courses Minimal number of credits of the block: 156

The role of the block: Z

Code of the group: 1.S.BEK-P OD 10/11

Name of the group: 1.s.BEK-od 10/11 prezen ní forma

Requirement credits in the group: In this group you have to gain 30 credits

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

Credits in the group: 30 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
04BJA1	English Language 1	Z	4	0P+4C		Z
51ITP	Information Technology and Computer Literacy	Z,ZK	4	0P+3C	Z	Z
51M	Mathematics	Z,ZK	6	2P+2C	Z	Z
51OP	General Psychology and Psychology of Personality	Z,ZK	6	3P+1C	Z	Z
TV1	Physical Education	Z	0	0+2	Z	Z
51TV1	Physical Education 1	Z	0	0P+2C		Z
51UE	Introduction to Economics	Z,ZK	6	2P+2C	Z	Z
51UV	Introduction to University Studies	Z	4	2P+1C	Z	Z

51UE	Introduction to Economics	Z,ZK	6	2P+2C	Z	Z	
51UV	Introduction to University Studies	Z	4	2P+1C	Z	Z	
Characteristics o	f the courses of this group of Study Plan: Code=1.S.BEK-P OD 10	/11 Name=1.s	.BEK-oc	l 10/11 pre	zen ní f	orma	
04BJA1	English Language 1				Z	4	
The course is suitable	for students of bachelor managerial studies. Seminars cover Business Terminology and Co	mmunication Skill	s as well as	grammar. Th	e course fo	cuses on	
	kills - reading, writing, speaking and listening, on understanding and orientation in a wide-r ge skills are submitted to the goal of developing the required level needed for students'prof		strengthen	ing and impro	ving gramm	nar. All	
51ITP	Information Technology and Computer Literacy			Z	,ZK	4	
Students will learn how	to adjust MS Excel user interface, to create, edit and format tables, enter basic as well as	advanced formula	s and func	tions (with eco	onomic and	managerial	
applications); to under	stand and apply absolute / relative cell references, create and format charts. They will learn	to work with data	bases in Ex	cel and learn	how to use	the functions	
	lata, using conditional formatting. Students will become familiar with multiple consolidation	ranges, analyze e	xternal data	a source, as w	ell as large	spreadsheets	
or databases to create	more complex types of graphs, create a PivotTable and graphs.						
51M	Mathematics			Z	,ZK	6	
	a - vectors, matrices, linear equations. Basics of differential calculation - limits, continuity of tral calculus - indefinite integral, methods of integration, definit integral and applications. Nu	,	•	•	osolut extre	mes,convexity,	
51OP	General Psychology and Psychology of Personality			Z	,ZK	6	
TV1	Physical Education				Z	0	
51TV1	Physical Education 1				Z	0	
51UE	Introduction to Economics			Z	,ZK	6	
The course is focused	on the following subjects: basic economic relations and consequences. Economic aggrega	tes and their cons	equences.	Operating of t	he economi	ics according	
to so called macroeko	nomic circle, various economic theories. Consumption behaviour in microeconomics. Theor	y of production. Di	fferent mar	kets and com	petitions.		
51UV	Introduction to University Studies	•			Z	4	
Content of the subject	includes knowledge assisting students in quick and effective adaptation to conditions of un	iversity studies. Co	ontent of th	e subject:Part	1 - adaptat	tion, Part 2	
ways of studying at un	vays of studying at universities, Part 3 - education and self-education.						

Code of the group: 2.S.BEK-P OD 10/11

Name of the group: 2.s.BEK-od 10/11 prezen ní forma

Requirement credits in the group: In this group you have to gain 26 credits

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

Credits in the group: 26 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
04BJA2	English Language 2	Z	4	0P+4C		Z
51PE	Business Economics	Z,ZK	6	2P+2C	L	Z
51PP1	Law and Business 1	Z,ZK	4	2P+1C	L	Z
51S	Sociology	Z,ZK	6	2P+2C	L	Z
51TV2	Physical Education 2	Z	0	0P+2C		Z
51ZPM	Basics of Business Management	Z,ZK	6	2P+2C	Z,L	Z

Characteristics of the courses of this group of Study Plan: Code=2.S.BEK-P OD 10/11 Name=2.s.BEK-od 10/11 prezen ní forma

04BJA2	English Language 2	Z	4							
The course is suitable for students of bachelor managerial studies. The course focuses on developing all four language skills at the given level, i.e. reading, writing, speaking and										
listening, on underst	listening, on understanding and orientation in a wide-range of topics in the students' respective professional and acedemic context, as well as on strengthening and improving grammar.									
All interconnected la	inguage skills are submitted to the goal of developing the required level needed for students' academic and professional life.									
51PE	51PE Business Economics Z,ZK 6									
51PP1	Law and Business 1	Z,ZK	4							
Subject of course La	aw and business includes the following: -labour law, its basis and role within the legal system -labour relations, international cons	sequences -emplo	yment and its							
regulation -termination	on of employment -working hours, vacancy -wage, salary, -discretion and duties of the employer and employees -health and saf	ety								
51S	Sociology	Z,ZK	6							
Content of the course	e is focused especially on the following topics:Sociology as a science, sociologic way of thinking including historic aspects, termino	ology. Sociology a	nd management.							
Social roles management. The Czech society in 21st century. Sociologic research.										
51TV2	51TV2 Physical Education 2 Z 0									
51ZPM	Basics of Business Management	Z,ZK	6							

Code of the group: 3.S.BEK-P OD 11/12

Name of the group: 3.s.BEK-od 11/12 prezen ní forma

Requirement credits in the group: In this group you have to gain 30 credits

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

Credits in the group: 30 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
04BJA3	English Language 3	Z	4	0P+4C		Z
51FG	Financial Literacy	KZ	4	2P+1C	Z	Z
51PU	Business Accounting	KZ	4	2P+1C	Z	Z
51PP2	Law and Business 2	Z,ZK	4	2P+1C	Z	Z
51LZ	Human Resources Management	Z,ZK	6	2P+2C	Z	Z
51VIS	Enterprise Information Systems	Z,ZK	4	2P+1C	L,Z	Z
51ZSV	Basics of Engineering Production	Z,ZK	4	2P+1C	Z	Z

Characteristics of the courses of this group of Study Plan: Code=3.S.BEK-P OD 11/12 Name=3.s.BEK-od 11/12 prezen ní forma

04BJA3	English Language 3	Z	4
The course is suitable f	or students of bachelor managerial studies. Seminars cover Business Terminology and Communication Skills as well as gram	nmar. The course	focuses on
developing language sk	iills - reading, writing, speaking and listening, on understanding and orientation in a wide-range of topics, on strengthening ar	nd improving gram	nmar. All
interconnected languag	e skills are submitted to the goal of developing the required level needed for students' professional life.		

	9 1 9 1		
51FG	KZ	4	
Banking Financial agen	cy Investment and financial markets Leasing Old-age pension insurance Insurance companies Management of personal and	I family budget	'
51PU	Business Accounting	KZ	4
0444	intendication to accounting Devictor and to adjust a minimum below a plant and another adjust and the adjustment of the contraction and the contra		

Content of the course is introduction to accounting. Double-entry bookkeeping and its principles, balance sheet account, profit and loss account, cash-flow. Sections in bookkeeping:long term investment, stock, costs, revenues, International accounting standards, accounting principles. Accounting system.

51PP2 Law and Business 2

Course content: -development of the commercial law, its relation to the civil law -system of the commercial law -business (not based on the Trade law), enterpreneur -business relations

and legal requirements -ensurance of business commitment -different contracts in accordance with the Commercial Code -business companies; -partnerships -companies with limited liability -joint stock companies -other companies -international and multinational companies

Human Resources Management

Students will develop basic knowledge on personal planning, personal marketing (searching and evaluating new personnel, including methodology and forms of recruitment), assesment of work performance and remuneration, outplacementu and forming labour force.

51VIS **Enterprise Information Systems** Z,ZK

The aim of the course is to teach students how to analyze the value processes within the company in its various departments and between departments. Aspect bodies represent departmental budgets and internal accounting, performance aspect preliminary and final costing. Organization's internal accounting, internal accounting continuity to financial accounting. The issue of internal performance and valuation of stocks. Aspects of classification costs. Used costing methods and techniques. The concept of full and variable costing. Integrating enterprise information systems in terms of cost - budgeting, preliminary costing, accounting, resulting calculation. Conversion relationships between a generic costing breakdown of costs, organizational and product control aspect. The set of indicators of production in the company and internal sphere.

Basics of Engineering Production

Z,ZK

Basic technologies of semifinished products production, special technologies of alloying, forming work, welding and thermal parting. Basic information on production, finishing and unconventional methods of machining work. Programming, CAD/CAM systems.

Code of the group: 4.S.BEK-P OD 11/12

Name of the group: 4.s.BEK-od 11/12 prezen ní forma

Requirement credits in the group: In this group you have to gain 26 credits

Requirement courses in the group: In this group you have to complete at least 5 courses

Credits in the group: 26 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
04BJA4	English Language 4	Z,ZK	6	0P+4C		Z
51FP	Business Financing	Z,ZK	6	2P+2C	Z,L	Z
51L	Logistics	KZ	4	2P+1C	L	Z
51PPO	Work and Organizational Psychology	Z,ZK	6	2P+2C	L	Z
51RJ	Quality Management	KZ	4	2P+1C	L,Z	Z

Characteristics of the courses of this group of Study Plan: Code=4.S.BEK-P OD 11/12 Name=4.s.BEK-od 11/12 prezen ní forma

English Language 4

The course is suitable for students of bachelor managerial studies. The course focuses on developing all four language skills at the given level, i.e. reading, writing, speaking and listening, on understanding and orientation in a wide-range of topics in the students' respective professional and acedemic context, as well as on strengthening and improving grammar. All interconnected language skills are submitted to the goal of developing the required level needed for students' academic and professional life.

Business Financing

Students will get familiar with the problematics o financial management of the business, analysis and interpretation of financial information, external and internal financial sources, balancing financial sources and applications, working capital management, investment evaluation, basics of financial mathematics and financial planning

51L Logistics

This programme covers many facets of logistics and supply chain management to create significant competitive advantages. The graduates can find their career in the field of controlling the production planning and scheduling process; making effective use of the enterprise resources planning (ERP) system, while anticipating its impact on the manufacturing process and on inventories; planning and forecasting while translating internal and external customer demands; and managing the supply chain while evaluating it and making effective use of relevant tools, principles and concepts. In this specialization students will learn to meet these challenges by getting to grips with key issues in supply chain design. This involves pinpointing the best location for production facilities and distribution centres, and identifying the resources they need. They will learn how to structure operations management in production, warehousing, transport and distribution, and purchasing. The key is to give customers the standard of service they want and to ensure process reliability. Production and logistic management is about understanding the impact of customized logistical designs on overall performance. Students will apply advanced software tools for enterprise resource planning and integer linear programming problems, capacity analysis of production systems, distribution planning and vehicle routing.

51PPO Work and Organizational Psychology Z.ZK

Course Psychology of work and organization contains the following: theory, research and practices in psychology of work, individual differences among people and their relationship to work behaviour, work analysis, monitoring of the effectiveness. Psychological basis for staff selection, emploees evaluation, analysis and modification of work behaviour, work motivationí, psychological aspects of personnel training, work under pressure. Basic terminology.

51RJ **Quality Management** K7

4

Content of the course: standards ISO 9000:2000. Application "Seven basic tools for quality control", basics of the theory of reliability, modern definition of realibility, stochastic characteristics of reliability Statistic control of quality: statistical analyses of production process, statistic regulation and statistical inspection. Seven new tools for quality management.

Code of the group: 5.S.BEK-P OD 12/13

Name of the group: 5.s.BEK-od 12/13 prezen ní forma

Requirement credits in the group: In this group you have to gain 30 credits

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

Credits in the group: 30 Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
51MK	Marketing	Z,ZK	6	2P+2C	Z	Z
51PT	Advanced Technologies	Z	4	2P+1C	Z	Z
51PBP	Project of Bachelor Thesis	Z	6	1P+2C	Z	Z
51PPS	Production Systems Design	Z	4	2P+1C	Z	Z
51PR	Project Management	Z,ZK	6	2P+2C	Z	Z
51DTB	Online Information Retrieval and the Work with Electronic Information Resources	KZ	4	1P+2C	Z	Z

Characteristics of the courses of this group of Study Plan: Code=5.S.BEK-P OD 12/13 Name=5.s.BEK-od 12/13 prezen ní forma

JIMIN	ivial ketting	Z,ZIX	1 0 1
The Marketing course n	akes the students familiar with some basic concepts, such as marketing and business strategies, market segmentation, mai	keting research,	marketing mix
and the application there	eof, product policy, new product, product life cycle, pricing policy, pricing strategy, pricing methods and factors, distribution polic	y, types of interme	diate distribution
links, marketing distribu	tion systems, marketing communications and new trends in marketing.		

51PT Advanced Technologies Z 4
Content of the course: progressive trends in the technology of machining and analysis of their impact on the machining process result. Optimalization processes from the costs and

productivity points of view. Progressive trends in the production of semi-finished products with the assistance of modern foundry, forming and welding technologies.

51PBP Project of Bachelor Thesis Z 6

Projekt of bachelor's degree paper will particularly include paper topic, topis specialization, explanation, further concretization; teoretic basis - survey of literature; paper structure; research problem formulation and design, literature and sources analyses; paper goalse (structure of the goals and their applicability); hypothesis formulation (main hypothesis, partial hypotheses); empiric survey; sample research (e.g. respondents and their analyses); time table of each work periods; plan and consultations with tutor etc.

51PPS | Production Systems Design | Z | 4 | Content of course: modern methods of modern production system design, that leads to increasing productivity and effectivity of different organization configurations. Projects will be also focused on failure free production flow, from material purchase, to contented customer. Course integrate knowledge of appropriate managerial, economic and technical course with current requirements of business practice.

51PR | Project Management

The basics of the project management-based approach to complex corporate processes, including analysis of initial preconditions for a successful project, integration of basic structural, technological, managerial and economic knowledge, all this based on network analysis. The course deals with the stages of project planning, implementation and evaluation, including responses to unplanned requirements and project risks. Field examples and analysis of field case studies.

51DTB Online Information Retrieval and the Work with Electronic Information Resources KZ 4
This course is focused on knowledge and skills required for the work with course and scientific literature, for information searching in relevant and valuable scientific information resources, for acquiring desired information and literature, for applying newly acquired knowledge in practice during the work on bachelor thesis, and for acquiring the principles of citation ethics and citation practice incl. citing and creating reference lists.

Code of the group: 6.S.BEK-P OD 12/13

Name of the group: 6.s.BEK-od 12/13-prezen ní forma

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 2 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
51G	Globalization	Z,ZK	6	2P+2C	L	Z
51TBP	Bachelor Thesis	Z	8	0+8	L	Z

Characteristics of the courses of this group of Study Plan: Code=6.S.BEK-P OD 12/13 Name=6.s.BEK-od 12/13-prezen ní forma

51G Globalization
The overall aim is to explain globalization as an economic phenomenon and to bring the environment in which the world economy develops. Demonstrate the effects of globalization on integration processes, economic environment and personal liberty.

51TBP Bachelor Thesis

Realization of the project of Bachelor's degree paper conditions concretization, particularly: paper topic, explanation and application; teoretical basis, analyses of theoretical sources;

paper structure; formulation of research problem incl. literature analysis; final goals; hypothesis formulation); empirical part(e.g. survey, test, sociometry etc.); research sample (e.g. respondents); timetable of each part realization; plan a consultations with the tutor; final version, including required enclosures (the Universities Act, Internal Czech Technical University Regulations); Bachelor's paper submitment and defence. Prezentation preparation

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 24

The role of the block: PV

Code of the group: PVP-B-EK OD 12/13

Name of the group: PVP-B-EK prezen ní forma od 12/13

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:

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
51XDM	Grant Management	KZ	4	2P+0C		PV
51XE1ES	Economic Statistics	KZ	4	2P+1C	2	PV
51XE2ES	Economic Statistics	KZ	4	2P+1C	4	PV
51XEM	Etiquette for Managers	KZ	4	2P+0C		PV
51XHT	Technology Assessment	KZ	4	2P+1C	L	PV
51XEIP	Intercultural Psychology	KZ	4	2P+1C		PV
51XKD	Communication Skills	KZ	4	1P+2C	L	PV
51XNM	Material Science	KZ	4	2P+1C	L	PV
51XEJN	German Language	KZ	4	0P+3C	L	PV
51XEPP	Computer Presentations	KZ	4	0P+3C	L	PV
51XPD	Presentation Skills	KZ	4	0P+3C	L	PV
51XPIS	Project of Information System	KZ	4	1P+2C	L	PV
51XEPT	Industrial Technologies	KZ	4	2P+1C		PV
51XSE	Social Aspects of Energetics	KZ	4	2P+1C	L	PV
51XESRA	Statistical Analysis and Decision-making	KZ	4	2P+1C		PV
51XSI	Systems Engineering and Information Systems	KZ	4	1P+2C		PV
51XEJS	Spanish Language	KZ	4	0P+3C		PV
51XTS	Rhetoric	KZ	4	1P+2C	L	PV
51XED	Introduction to Tax System for Economists	KZ	4	2P+1C	L	PV
51XEBOZP	Health, Safety and Fire Prevention Principles	KZ	4	2P+1C		PV
51XEZS	Healthy Life Style	KZ	4	2P+1C		PV
51XZS	Healthy Lifestyle	KZ	4	2P+1C	L	PV

51XDM	Grant Management	KZ	4
51XE1ES	Economic Statistics	KZ	4
The subject of Eco	nomic Statistics is oriented on measurement of economic events at microeconomic and macroeconomic level. This course will pr	ovide students with a	solid foundation
of descriptive statis	stics, regression and correlation analysis, indexes analysis, time series analysis and measurement of the seasonality.		
51XE2ES	Economic Statistics	KZ	4
The subject of ?Ed	conomic Statistics? is oriented on measurement of economic events at microeconomic and macroeconomic level. This course w	will provide students	with a solid
foundation of desc	criptive statistics, regression and correlation analysis, indexes analysis, time series analysis and measurement of the seasonality	ty.	
51XEM	Etiquette for Managers	KZ	4
Introduction to all f	forms of social intercourse, correct resolution of social situations and rules of manners in different situations, which can manag	er face during busine	ess meetings,
presentations or e	vents.		
51XHT	Technology Assessment	KZ	4
Technology Asses	sment is a complex, multidisciplinary, transdisciplinary and interdisciplinary field on the frontier of philosophy and sociology of t	echnology and has o	lose relation to
economics and pro	ognostication. TA is a scientific, interactive and communicative process which aims to contribute to forming public and political op	ninion on social asne	ets of tachnolog
	ognostication. It is a scientific, interactive and communicative process which aims to contribute to forming public and political of	millori ori sociai aspc	ora or recrimorof
and science develo		on social aspe	ots of technolog
and science devel		KZ	4
and science develo	opment.	·	
and science develong 51XEIP 51XKD	opment. Intercultural Psychology	KZ KZ	4 4
and science develor 51XEIP 51XKD Students get acqui	Intercultural Psychology Communication Skills	KZ KZ	4 4
and science develors 51XEIP 51XKD Students get acquiso that they improve	Intercultural Psychology Communication Skills ainted with the principles of communicative and presentation skills, analyse the obtained skills and competencies, receive and p	KZ KZ	4 4
and science develors 51XEIP 51XKD Students get acquiso that they improved	Intercultural Psychology Communication Skills ainted with the principles of communicative and presentation skills, analyse the obtained skills and competencies, receive and presentations.	KZ KZ provide feedback usin	4 4 g self-evaluatio
and science develors 51XEIP 51XKD Students get acquiso that they improved 51XNM History and preser	Intercultural Psychology Communication Skills ainted with the principles of communicative and presentation skills, analyse the obtained skills and competencies, receive and presentations. Material Science	KZ rovide feedback usin KZ deformation, recrysta	4 4 g self-evaluatio
and science develors 51XEIP 51XKD Students get acquires that they improved that they improved the statement of the science of the science of material science of materials.	Intercultural Psychology Communication Skills ainted with the principles of communicative and presentation skills, analyse the obtained skills and competencies, receive and pose their abilities to communicate and perform high quality presentations. Material Science Intercultural Psychology Material Psyc	KZ rovide feedback usin KZ deformation, recrysta	4 4 g self-evaluatio
and science develors 51XEIP 51XKD Students get acquison that they improve 51XNM History and preser fracture of materia 51XEJN	Intercultural Psychology Communication Skills ainted with the principles of communicative and presentation skills, analyse the obtained skills and competencies, receive and pover their abilities to communicate and perform high quality presentations. Material Science Int state of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, als, structure and properties of materials and their testing, iron-carbon phase diagram, overview of steels, cast irons and nonfer German Language	KZ KZ Provide feedback usin KZ deformation, recrystatous metals.	4 g self-evaluatio 4 allization and
and science develors 51XEIP 51XKD Students get acquison that they improved the second that they improved the second that they improved the second that they are present fracture of materials 51XEJN 51XEPP	Intercultural Psychology Communication Skills ainted with the principles of communicative and presentation skills, analyse the obtained skills and competencies, receive and post their abilities to communicate and perform high quality presentations. Material Science Int state of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, als, structure and properties of materials and their testing, iron-carbon phase diagram, overview of steels, cast irons and nonfer	KZ KZ provide feedback usin KZ deformation, recrystarous metals. KZ KZ	4 4 g self-evaluatio 4 allization and 4
and science develors 51XEIP 51XKD Students get acquison that they improved the second that they improved the second that they improved that they are the second that they improved the second that they improve the second they improve the second that they improve the second the second they improve the second the second they improve the secon	Intercultural Psychology Communication Skills ainted with the principles of communicative and presentation skills, analyse the obtained skills and competencies, receive and pover their abilities to communicate and perform high quality presentations. Material Science Int state of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, als, structure and properties of materials and their testing, iron-carbon phase diagram, overview of steels, cast irons and nonfer German Language Computer Presentations	KZ KZ brovide feedback usin KZ deformation, recrystarous metals. KZ KZ formation and results	4 g self-evaluation 4 allization and 4 4 s of their work,
and science develors 51XEIP 51XKD Students get acquison that they improve 51XNM History and preser fracture of materia 51XEJN 51XEPP Students will learn which form to use	Intercultural Psychology Communication Skills ainted with the principles of communicative and presentation skills, analyse the obtained skills and competencies, receive and pover their abilities to communicate and perform high quality presentations. Material Science Int state of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, als, structure and properties of materials and their testing, iron-carbon phase diagram, overview of steels, cast irons and nonfer German Language Computer Presentations In basics of presentation structuring, basic aspects influencing successful presentation. Students should learn how to present information in the properties of presentation is tructuring, basic aspects influencing successful presentation.	KZ KZ brovide feedback usin KZ deformation, recrystarous metals. KZ KZ formation and results	4 g self-evaluation 4 allization and 4 4 s of their work,
and science develors 51XEIP 51XKD Students get acquison that they improve 51XNM History and preser fracture of materia 51XEJN 51XEPP Students will learn which form to use	Intercultural Psychology Communication Skills ainted with the principles of communicative and presentation skills, analyse the obtained skills and competencies, receive and pover their abilities to communicate and perform high quality presentations. Material Science Intercultural Science and properties of materials and their testing, iron-carbon phase diagram, overview of steels, cast irons and nonfer a German Language Computer Presentations In basics of presentation structuring, basic aspects influencing successful presentation. Students should learn how to present interculture and properties and their testing, iron-carbon phase diagram, overview of steels, cast irons and nonfer a state of presentations. Students should learn how to present interculturing taking into account the audience. Students should adapt the form of their presentation to expectations, level of understanding a state of their presentation to expectations, level of understanding and their testing into account the audience. Students should adapt the form of their presentation to expectations, level of understanding and their testing into account the audience.	KZ KZ brovide feedback usin KZ deformation, recrystarous metals. KZ KZ formation and results	4 g self-evaluation 4 allization and 4 4 s of their work,

presentation skills. Students will present their skills using videotechniques and get feedback, "peer-review".

51XPIS	Project of Information System	KZ	4
Fundamental terms	, information systems architecture, basic types of software applications for information system of enterprise, information syste	em lifecycle, approache	es to information
system developmer	nt, management information systems, web audit, business process modeling using BPMN, UML and others, information syst	em modeling - UML an	d data modeling
using ER diagrams			
51XEPT	Industrial Technologies	KZ	4
51XSE	Social Aspects of Energetics	KZ	4
The main topic of th	ne course is the presentation of information from a variety of ideological streams in the context of global energy problems of ma	ankind. The aim is to sh	now the complex
nature of the proble	ens and to facilitate orientation of students in them. Students will learn about the engineering and economic approaches to t	he assessment of stock	ks of primary
energy sources, the	e issue of energy security, for example in connection with the oil crises, with views of socially relevant groups of opinion on th	e direction of energy po	olicy, the current
policy implemented	in the EU and the Czech Republic. The course also includes definitions and aspects of sustainable development, the importa	ance of energy to the na	ational economy
and the debate on	global climate change.		
51XESRA	Statistical Analysis and Decision-making	KZ	4
Student will be intro	oduced into using of statistical methods by describing onedimensional and twodimensional populations (with regression and	correlation analysis). S	Student will be
introduced into the	probability theory, including basic distributions and statistical estimate and tests. The subject can be applied in the following	fields: models of linear	programming,
inventory, queuing,	network, simulation.		
51XSI	Systems Engineering and Information Systems	KZ	4
Design of primary s	system database, database implementation using SQL, data retrieval from transaction systems and data processing, OLAP r	neasures and dimensi	ons design and
implementation for	decision making purposes and results reporting using pivot charts and tables.		
51XEJS	Spanish Language	KZ	4
51XTS	Rhetoric	KZ	4
Rhetoric provides a	ın insight into rhetorical skills, voice & breath management, understandable articulation/pronunciation, speech speed ar	nd phrasing. The curric	ulum includes
verbal communicati	ion practise based on pre-prepared and impromptu presentations, methods of developing rhetorical skills, target audience id	entification, preparation	n and types of
speeches and lang	uage creativity. The course lays the foundations for effective communication training that is then followed up in Social Psycho	ology-related courses.	
51XED	Introduction to Tax System for Economists	KZ	4
51XEBOZP	Health, Safety and Fire Prevention Principles	KZ	4
	OSH. EU, Czech Labour Code. Implementing regulations of the Labour Code. Duties of the employer. The rights and obligations of the Labour Code.	tions of the employee.	Risk
Basic legislation on	Oor 1. 20, Ozeon Eabour Gode. Implementing regulations of the Eabour Gode. Duties of the employer. The rights and obligations		
-	of staff. Occupational accidents. Report of the accident. Documentation to ensure the health and safety. Labour Inspection, I		ngineering. Fire
prevention.Training		KHS, Environmental Er	ngineering. Fire
prevention.Training	of staff. Occupational accidents. Report of the accident. Documentation to ensure the health and safety. Labour Inspection, I	KHS, Environmental Er	ngineering. Fire
prevention.Training protection. The law	of staff. Occupational accidents. Report of the accident. Documentation to ensure the health and safety. Labour Inspection, I on the protection of public health. Occupational Hygiene. Personal protective equipment. Safety signs and signals. Technical	KHS, Environmental Er equipment.	

List of courses of this pass:

D4BJA1 English Language 1 The course is suitable for students of bachelor managerial studies. Seminars cover Business Terminology and Communication Skills as well as grammar. The course focuses on developing language skills - reading, writing, speaking and distening, on understanding and orientation in a wide-range of topics, on strengthening and improving grammar. All interconnected language skills are submitted to the goal of developing the required level needed for students/professional life. O4BJA2 English Language 2 The course is suitable for students of bachelor managerial studies. The course focuses on developing all four language skills at the given level, i.e. reading, writing, speaking and stening, on understanding and orientation in a wide-range of topics in the students' respective professional and accedemic context, as well as on strengthening and improving grammar. All interconnected language skills are submitted to the goal of developing the required level needed for students' academic and professional life. O4BJA3 English Language 3 English Language 4 English Language 3 English Language 3 English Language 4 The course is suitable for students of bachelor managerial studies. Seminars cover Business Terminology and Communication Skills as well as grammar. The course focuses on developing language skills - reading, writing, speaking and developing language skills - reading, writing, speaking and stening, on understanding and orientation in a wide-range of topics, on strengthening and improving grammar. All interconnected language skills are submitted to the goal of developing the required level needed for students' professional life. 51DTB Online Information Retrieval and the Work with Electronic Information Resources KZ 4 English Lan	Code	Name of the course	Completion	Credits
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Students will learn how to adjust MS Excel user interface, to create, edit and format tables, enter basic as well as advanced formulas and functions (with economic and managerial	The overall aim is		ate the effects of g	lobalization
·	51ITP	Information Technology and Computer Literacy	Z,ZK	4
applications); to understand and apply absolute / relative cell references, create and format charts. They will learn to work with databases in Excel and learn how to use the functions	Students will lear	rn how to adjust MS Excel user interface, to create, edit and format tables, enter basic as well as advanced formulas and functions (w	ith economic and r	nanagerial
	applications); to u	nderstand and apply absolute / relative cell references, create and format charts. They will learn to work with databases in Excel and	learn how to use th	ne functions

for searching, sorting data, using conditional formatting. Students will become familiar with multiple consolidation ranges, analyze external data source, as well as large spreadsheets or databases to create more complex types of graphs, create a PivotTable and graphs. K7 511 4 Logistics This programme covers many facets of logistics and supply chain management to create significant competitive advantages. The graduates can find their career in the field of controlling the production planning and scheduling process; making effective use of the enterprise resources planning (ERP) system, while anticipating its impact on the manufacturing process and on inventories; planning and forecasting while translating internal and external customer demands; and managing the supply chain while evaluating it and making effective use of relevant tools, principles and concepts. In this specialization students will learn to meet these challenges by getting to grips with key issues in supply chain design. This involves pinpointing the best location for production facilities and distribution centres, and identifying the resources they need. They will learn how to structure operations management in production, warehousing, transport and distribution, and purchasing. The key is to give customers the standard of service they want and to ensure process reliability. Production and logistic management is about understanding the impact of customized logistical designs on overall performance. Students will apply advanced software tools for enterprise resource planning and integer linear programming problems, capacity analysis of production systems, distribution planning and vehicle routing. 51LZ **Human Resources Management** Z,ZK 6 Students will develop basic knowledge on personal planning, personal marketing (searching and evaluating new personnel, including methodology and forms of recruitment), assesment of work performance and remuneration, outplacementu and forming labour force. 51M Mathematics 7.7K 6 Basics of linear algebra - vectors, matrices, linear equations. Basics of differential calculation - limits, continuity of functions, derivation, monotony, local and absolut extremes, convexity, graphs. Basics of integral calculus - indefinite integral, methods of integration, definit integral and applications. Numerical calculation of integrals. 51MK Marketing Z,ZK The Marketing course makes the students familiar with some basic concepts, such as marketing and business strategies, market segmentation, marketing research, marketing mix and the application thereof, product policy, new product, product life cycle, pricing policy, pricing strategy, pricing methods and factors, distribution policy, types of intermediate distribution links, marketing distribution systems, marketing communications and new trends in marketing. 510P General Psychology and Psychology of Personality Z,ZK 6 51PBP Project of Bachelor Thesis 6 Projekt of bachelor's degree paper will particularly include paper topic, topis specialization, explanation, further concretization; teoretic basis - survey of literature; paper structure; research problem formulation and design, literature and sources analyses; paper goalse (structure of the goals and their appicability); hypothesis formulation (main hypothesis, partial hypotheses); empiric survey; sample research (e.g. respondents and their analyses); time table of each work periods; plan and consultations with tutor etc. 51PE **Business Economics** 6 51PP1 Law and Business 1 4 Subject of course Law and business includes the following: -labour law, its basis and role within the legal system -labour relations, international consequences -employment and its regulation -termination of employment -working hours, vacancy -wage, salary, -discretion and duties of the employer and employees -health and safety 51PP2 Law and Business 2 Course content: -development of the commercial law, its relation to the civil law -system of the commercial law -business (not based on the Trade law), enterpreneur -business relations and legal requirements -ensurance of business commitment -different contracts in accordance with the Commercial Code -business companies: -partnerships -companies with limited liability -joint stock companies -other companies -international and multinational companies 51PPO Z.ZK Work and Organizational Psychology 6 Course Psychology of work and organization contains the following: theory, research and practices in psychology of work, individual differences among people and their relationship to work behaviour, work analysis, monitoring of the effectiveness. Psychological basis for staff selection, emploees evaluation, analysis and modification of work behaviour, work motivationí, psychological aspects of personnel training, work under pressure. Basic terminology. 51PPS **Production Systems Design** Ζ Content of course: modern methods of modern production system design, that leads to increasing productivity and effectivity of different organization configurations. Projects will be also focused on failure free production flow, from material purchase, to contented customer. Course integrate knowledge of appropriate managerial, economic and technical course with current requirements of business practice. 51PR Z.ZK Project Management 6 The basics of the project management-based approach to complex corporate processes, including analysis of initial preconditions for a successful project, integration of basic structural, technological, managerial and economic knowledge, all this based on network analysis. The course deals with the stages of project planning, implementation and evaluation, including responses to unplanned requirements and project risks. Field examples and analysis of field case studies. 51PT Advanced Technologies 7 4 Content of the course: progressive trends in the technology of machining and analysis of their impact on the machining process result. Optimalization proceses from the costs and productivity points of view. Progressive trends in the production of semi-finished products with the assistance of modern foundry, forming and welding technologies. 51PU **Business Accounting** Content of the course is introduction to accounting. Double-entry bookkeeping and its principles, balance sheet account, profit and loss account cash-flow. Sections in bookkeeping long term investment, stock, costs, revenues, International accounting standards, accounting principles. Accounting system. 51RJ Quality Management Content of the course: standards ISO 9000:2000. Application "Seven basic tools for quality control", basics of the theory of reliability, modern definition of realibility, stochastic characteristics of reliability Statistic control of quality: statistical analyses of production process, statistic regulation and statistical inspection. Seven new tools for quality management. Sociology Z,ZK 6 Content of the course is focused especially on the following topics: Sociology as a science, sociologic way of thinking including historic aspects, terminology. Sociology and management. Social roles management. The Czech society in 21st century. Sociologic research. 51TBP **Bachelor Thesis** Realization of the project of Bachelor's degree paper conditions concretization, particularly: paper topic, explanation and application; teoretical basis, analyses of theoretical sources; paper structure; formulation of research problem incl. literature analysis; final goals; hypothesis formulation); empirical part(e.g. survey, test, sociometry etc.); research sample (e.g. respondents); timetable of each part realization; plan a consultations with the tutor; final version, including required enclosures (the Universities Act, Internal Czech Technical University Regulations); Bachelor's paper submitment and defence. Prezentation preparation 51TV1 Physical Education 1 Z 0 51TV2 Physical Education 2 7 0 Z.ZK Introduction to Economics 51UE 6 The course is focused on the following subjects; basic economic relations and consequences. Economic aggregates and their consequences. Operating of the economics according to so called macroekonomic circle, various economic theories. Consumption behaviour in microeconomics. Theory of production. Different markets and competitions Introduction to University Studies Content of the subject includes knowledge assisting students in quick and effective adaptation to conditions of university studies. Content of the subject:Part 1 - adaptation, Part 2. ways of studying at universities, Part 3 - education and self-education.

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51VIS	Enterprise Information Systems	Z,ZK	4
	ourse is to teach students how to analyze the value processes within the company in its various departments and between departme	•	-
	ets and internal accounting, performance aspect preliminary and final costing. Organization's internal accounting, internal accounting co	=	_
	al performance and valuation of stocks. Aspects of classification costs. Used costing methods and techniques. The concept of full ar tion systems in terms of cost - budgeting, preliminary costing, accounting, resulting calculation. Conversion relationships between a	_	
enterprise informa	costs, organizational and product control aspect. The set of indicators of production in the company and internal sphere.	generic costing bre	akuowii oi
51XDM	Grant Management	KZ	4
51XE1ES	Economic Statistics	KZ	4
	ECOTOTTIC Statistics nomic Statistics is oriented on measurement of economic events at microeconomic and macroeconomic level. This course will provide s	1	•
The subject of Ecol	of descriptive statistics, regression and correlation analysis, indexes analysis, time series analysis and measurement of the seas		a louridation
51XE2ES	Economic Statistics	KZ	4
	Economic Statistics? is oriented on measurement of economic events at microeconomic and macroeconomic level. This course will p	1	· ·
,	undation of descriptive statistics, regression and correlation analysis, indexes analysis, time series analysis and measurement of the		
51XEBOZP	Health, Safety and Fire Prevention Principles	KZ	4
	ion on OSH. EU, Czech Labour Code. Implementing regulations of the Labour Code. Duties of the employer. The rights and obligation		· · · · · ·
prevention.Training	of staff. Occupational accidents. Report of the accident. Documentation to ensure the health and safety. Labour Inspection, KHS, Er	nvironmental Engin	eering. Fire
proted	ction. The law on the protection of public health. Occupational Hygiene. Personal protective equipment. Safety signs and signals. Tech	nnical equipment.	
51XED	Introduction to Tax System for Economists	KZ	4
51XEIP	Intercultural Psychology	KZ	4
51XEJN	German Language	KZ	4
51XEJS	Spanish Language	KZ	4
51XEM	Etiquette for Managers	KZ	4
	forms of social intercourse, correct resolution of social situations and rules of manners in different situations, which can manager fac	1	
	presentations or events.	g	
51XEPP	Computer Presentations	KZ	4
	n basics of presentation structuring, basic aspects influencing successful presentation. Students should learn how to present informa	1	their work,
	e taking into account the audience. Students should adapt the form of their presentation to expectations, level of understanding and		
	Students will learn to apply modern didactic techniques in their presentations.		
51XEPT	Industrial Technologies	KZ	4
51XESRA	Statistical Analysis and Decision-making	KZ	4
Student will be int	roduced into using of statistical methods by describing onedimensional and twodimensional populations (with regression and correla	ition analysis). Stud	ent will be
introduced into the	probability theory, including basic distributions and statistical estimate and tests. The subject can be applied in the following fields:	nodels of linear pro	gramming,
	inventory, queuing, network, simulation.		
51XEZS	Healthy Life Style	KZ	4
51XHT	Technology Assessment	KZ	4
Technology Asses	sment is a complex, multidisciplinary, transdisciplinary and interdisciplinary field on the frontier of philosophy and sociology of technology	ology and has close	relation to
economics and pro			
	gnostication. TA is a scientific, interactive and communicative process which aims to contribute to forming public and political opinion of	on social aspects of	
	and science development.		technology
51XKD	and science development. Communication Skills	KZ	technology 4
51XKD	and science development. Communication Skills inted with the principles of communicative and presentation skills, analyse the obtained skills and competencies, receive and provide	KZ	technology 4
51XKD Students get acqua	and science development. Communication Skills inted with the principles of communicative and presentation skills, analyse the obtained skills and competencies, receive and provide so that they improve their abilities to communicate and perform high quality presentations.	KZ feedback using se	technology 4 f-evaluation
51XKD Students get acqua	and science development. Communication Skills inted with the principles of communicative and presentation skills, analyse the obtained skills and competencies, receive and provide so that they improve their abilities to communicate and perform high quality presentations. Material Science	KZ feedback using se	technology 4 If-evaluation
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51XKD Students get acqua 51XNM History and press	and science development. Communication Skills inted with the principles of communicative and presentation skills, analyse the obtained skills and competencies, receive and provide so that they improve their abilities to communicate and perform high quality presentations. Material Science ent state of materials engineering, overview of technical materials, internal structure of metals, crystal lattices and their defects, defor a of materials, structure and properties of materials and their testing, iron-carbon phase diagram, overview of steels, cast irons and respectively.	KZ feedback using se KZ rmation, recrystallizenonferrous metals.	f technology 4 f-evaluation 4 zation and
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