

DETAILS OF THE DEGREE PROGRAMME

Business Informatics Faculty of Economics and Administration

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1 Basic information about the degree programme

Business Informatics

<i>Guarantor</i>	doc. Ing. Radoslav Škapa, Ph.D.	<i>Standard length of studies</i>	3 y.
<i>Faculty</i>	Faculty of Economics and Administration	<i>Abbreviation</i>	B-POIN
<i>Study mode</i>	full-time	<i>Degree</i>	Bc.
<i>In cooperation with</i>	Faculty of Informatics	<i>Code</i>	B0413A050005
<i>Type</i>	Bachelor's degree programme	<i>Language of instruction</i>	Czech
<i>Profile</i>	academic	<i>Advanced Master's state examination</i>	no
<i>Field of education</i>	Economic Sciences (50 %) Informatics (50 %)	<i>Status</i>	active

1.1 Programme description

Objectives

The Business Informatics study programme prepares students to become experts in the development of business processes and in the implementation and control of information systems and information and communication technology (IS/ICT). For that reason, students become familiar with the knowledge of economic disciplines as well as of applied informatics, both of which are needed for such jobs. In business, graduates operate as a bridge between corporate management (including the operative management that knows the details of business processes at the operative level) and ITC specialists.

The aim of the study is to create condition for successful employment as consultants, managers, and developers of business IS/ICT, as members of implementation teams, and as projects managers, and to provide students with quality background knowledge allowing the continuation of the studies at the Master's degree level in the same or similar studies.

Learning Outcomes

After successfully completing his/her studies the graduate is able to:

1. understand thoroughly the link between businesses economics and corporate information needs
2. develop and apply relevant methodology in tasks related to the analysis of current IS/ICT and to design modifications of IS/ICT based on corporate technical and conceptual information needs
3. propose the development of IS/ICT and participate in managing IS/ICT
4. apply the general methods of scientific work
5. communicate about profession-related issues in a global language
6. to understand the theoretical background of business management and applied informatics at a level that will enable him/her to continue in the same or similar master study
7. to effectively search and process information.
8. to formulate their ideas into an academic text.

Occupational Profiles of Graduates

Graduates can take part in the analysis of the economic processes and of the specific system requirements when customizing information systems. They can work as leaders of smaller information system projects and as workers supporting the operation of IT economic functions.

Practical Training

Practice is not compulsory, but only an optional part of the study, through the choice of the course "Traineeship".

Goals of Theses

Bachelor thesis is a professional work which uses exact scientific methods and tools for data collection and analysis and interpretation of results. When creating the work, it is necessary to use the knowledge gained during the bachelor study. The thesis covers business informatics, which means that there must be two disciplines in the field - applied computer science and business management. The main part of the bachelor thesis is the design part, representing the student's proposed solution (or alternative solution) of the chosen problem. Proposals are substantiated and evaluated in their context, including economic evaluation. Closer formal and factual requirements for the final work, including the required scope, work with literature, etc. are listed in the relevant faculty directive and in the study materials related to the creation of a bachelor thesis (Theses BP, Bachelor seminar 1 and 2).

Access to Further Studies

The graduates of the branch have the possibility to continue with the follow-up master study program Business management.

Additional Information

<https://www.econ.muni.cz/o-nas/organizacni-struktura/562000-katpodnikoveho-hospodarstvi>

1.2 Study plans

1.2.1 Business Informatics (full-time, single-subject)

Code	E21601
Abbreviation	BPOINF01
Study Mode	Bachelor's full-time single-subject
Status	active

Recommended progress through the study plan

Společný univerzitní základ (15 kr.)

Jazyky

Code	Name	Guarantor	Type of Compl.	Extent and Intensity*	Credits	Term	Profile Cat.**
BPJ_JI1A	Foreign Language I/1 - English	B. Pojslová	z (credit)	0/4/0	4	1	-
BPJ_JI1F	Foreign Language I/1 - French	M. Červenková	z (credit)	0/4/0	4	-	-
BPJ_JI1N	Foreign Language I/1 - German	P. Sojková	z (credit)	0/4/0	4	-	-
BPJ_JI1S	Foreign Language I/1 - Spanish	V. De Azevedo Camacho	z (credit)	0/4/0	4	-	-
					16 credits		

TV

Code	Name	Guarantor	Type of Compl.	Extent and Intensity*	Credits	Term	Profile Cat.**
p935	Physical Education - Kick box	Z. Svobodová	z (credit)	0/2/0	1	1	-
p991	Physical Education - Fitness	A. Pokorná	z (credit)	0/2/0	1	3	-
					2 credits		

Bakalářská práce (min. 10 kr)

Code	Name	Guarantor	Type of Compl.	Extent and Intensity*	Credits	Term	Profile Cat.**
BPH_TEBP	Bachelor Thesis	A. Klapalová	z	0/0/0	3	4	P
BPH_BAS1	Bachelor Thesis Seminar 1	J. Procházka	z	0/2/0	5	5	P
BPH_BAS2	Bachelor Thesis Seminar 2	A. Klapalová	z	0/0/0	5	6	P
					13 credits		

Povinné předměty (P+PV více než 135kr.)

Code	Name	Guarantor	Type of Compl.	Extent and Intensity*	Credits	Term	Profile Cat.**
BDX_AKAP	Academic writing	M. Kvizda	z	0/0/0	2	1	-
BPH_USPI	Introduction to Management Information Systems	R. Škapa	z (credit)	0/1/0	1	1	-
BPM_VTMA	Mathematics Entrance Test	L. Bauer	z	0/0/0	-	1	-
BPH_EKOR	Corporate Economics	P. Suchánek	zk	2/2/0	8	1	Z
BPF_FIU1	Financial Accounting 1	E. Hýblová	zk	2/2/0	8	1	-
IB000	Mathematical Foundations of Computer Science	P. Hliněný	zk	2/2/1	4+2	1	-
IB113	Introduction to Programming and Algorithms	R. Pelánek	zk	2/2/1	4+2	1	-
PB001	Introduction to Information Technologies	L. Matyska	zk	2/0/0	2+2	1	P
BPH_PIS1	Corporate Information Systems 1	J. Skorkovský	zk	2/2/0	6	2	Z
BPH_POEK	Business Economics	P. Suchánek	zk	2/2/0	7	2	Z
PB152	Operating Systems	P. Ročkai	zk	2/0/0	2+2	2	-
BPH_PINF	Business Informatics	R. Škapa	zk	3/3/0	8	3	Z
BPH_PIS2	Corporate Information Systems 2	J. Skorkovský	zk	2/2/0	6	3	Z
PB168	Introduction to DB and IS	P. Zezula	zk	2/2/0	3+2	3	-
PB150	Computer-Systems Architectures	M. Brandejs	k	2/0	2+1	3	-
IB110	Introduction to Informatics	P. Novotný	zk	2/2/0	3+2	4	Z
BPM_MATE	Mathematics	M. Matulová	kz	2/2/0	6	2	-
PV165	Process Management	J. Ráček	zk	1/1/0	2+2	4	-
PV004	UNIX	M. Brandejs	z	2/0/0	2	4	-
BPH_MAUC	Managerial Accounting	L. Šiška	zk	2/2/0	8	5	-
BPE_MIE1	Microeconomics 1	M. Kvasnička	zk	2/2/0	8	5	Z

continued on the next page

Code	Name	Guarantor	Type of Compl.	Extent and Intensity*	Credits	Term	Profile Cat.**
BPM_STA1	Statistics 1	P. Ráboňová	kz	2/2/0	5	5	-
PB007	Software Engineering I	B. Bühnová	zk	2/2/0	3+2	5	-
BPE_MAE1	Macroeconomics 1	L. Žídek	zk	2/2/0	8	6	-
BPM_STA2	Statistics 2	P. Ráboňová	kz	2/2/0	5	6	-
					130 credits		

Povinně-volitelné předměty

Code	Name	Guarantor	Type of Compl.	Extent and Intensity*	Credits	Term	Profile Cat.**
PB161	C++ Programming	N. Beneš	zk	2/2/0	3+2	4	-
PB162	Java	T. Pitner	zk	2/2/0	3+2	4	-
					10 credits		

Jazyk

Anglický jazyk

Code	Name	Guarantor	Type of Compl.	Extent and Intensity*	Credits	Term	Profile Cat.**
BPJ_JI2A	Foreign Language I/2 - English	B. Pojslová	zk (examination)	0/4/0	5	2	-
BPJ_JI3A	Foreign Language I/3 - English	B. Pojslová	z (credit)	0/2/0	3	3	-
BPJ_JI4A	Foreign Language I/4 - English	B. Pojslová	zk (examination)	0/2/0	4	4	-
					12 credits		

Francouzský jazyk

Code	Name	Guarantor	Type of Compl.	Extent and Intensity*	Credits	Term	Profile Cat.**
BPJ_JI2F	Foreign Language I/2 - French	M. Červenková	zk (examination)	0/4/0	5	-	-
BPJ_JI3F	Foreign Language I/3 - French	M. Červenková	z (credit)	0/2/0	3	-	-
BPJ_JI4F	Foreign Language I/4 - French	M. Červenková	zk (examination)	0/2/0	4	-	-
					12 credits		

Německý jazyk

Code	Name	Guarantor	Type of Compl.	Extent and Intensity [*]	Credits	Term	Profile Cat. ^{**}
BPJ_JI2N	Foreign Language I/2 - German	P. Sojková	zk (examination)	0/4/0	5	-	-
BPJ_JI3N	Foreign Language I/3 - German	P. Sojková	z (credit)	0/2/0	3	-	-
BPJ_JI4N	Foreign Language I/4 - German	P. Sojková	zk (examination)	0/2/0	4	-	-
					12 credits		

Španělský jazyk

Code	Name	Guarantor	Type of Compl.	Extent and Intensity [*]	Credits	Term	Profile Cat. ^{**}
BPJ_JI2S	Foreign Language I/2 - Spanish	V. De Azevedo Camacho	zk (examination)	0/4/0	5	-	-
BPJ_JI3S	Foreign Language I/1 - Spanish	V. De Azevedo Camacho	z (credit)	0/2/0	3	-	-
BPJ_JI4S	Foreign Language I/4 - Spanish	V. De Azevedo Camacho	zk (examination)	0/2/0	4	-	-
					12 credits		

^{*} Extent and Intensity provides information on teaching sessions and their amount. The information listed relates to lectures/seminars/other teaching activities (laboratory practice, projects, etc.).

^{**} Profile category describes if the course is in Profile core courses (P) or in Fundamental theoretical profile core courses (Z).

2 Characteristics of the courses

This chapter contains the characteristics of required and selective courses from study plans templates.

2.1 Fundamental theoretical profile core courses (Z)

It is a subset of profile core courses (P) (see 2.2) of such importance for the graduate's profile completion that it constitutes the core of all programmes' study plans.

FI:IB110 Introduction to Informatics

3 credits, type of completion zk (examination), course guarantor RNDr. Petr Novotný, Ph.D.

Teacher(s)

RNDr. Petr Novotný, Ph.D. (lecturer)
 RNDr. Mgr. Jana Dražanová, Ph.D. (seminar tutor)
 Bc. Matěj Pavlík (seminar tutor)
 Bc. et Bc. Roman Solař (seminar tutor)
 Dávid Šutor (seminar tutor)

Course objectives

The main objective of the course is to acquaint the students with basic abstract computational models and their use in analysis of algorithms and computational problems. At the end of the course, the students will understand fundamental concepts in the theory of finite automata, computability and complexity theory. They will be able

to leverage the knowledge of these concepts for deeper understanding of concepts appearing in a practice of programming.

Teaching methods

lectures and seminars

Assessment methods

The overall grade will depend on the outcome of the mid-term and final exams. To sign up for an exam term, the student will have to fulfill active participation criteria (seminar participation and homework assignments).

Learning outcomes

Successful course graduates will be able to:

- explain the notion of a finite automaton and construct finite automata for simple regular languages
- explain the notion of a regular expression and construct REs for simple regular languages
- explain the concept of non-determinism and use non-determinism to simplify the construction of finite automata
- use the basic algorithms for handling of finite automata (determinisation etc.)
- understand the notion of decidability and explain the existence of undecidable problems
- explain the concept of a Turing machine and construct TMs for simple problems
- understand the concept of reduction between computational problems
- understand the concept of computational complexity, the basic complexity classes and relationships between them

Syllabus

Finite automata and regular languages. Construction of finite automata.

Non-deterministic automata, the use of non-determinism, determinisation, minimalisation.

Regular expressions and regular grammars. Examples of non-regular languages.

Computational problems and algorithms. Turing machines. Decidable and undecidable problems, diagonalisation.

Reductions between computational problems.

Time and space complexity of algorithms and problems. Classes P and NP. NP-complete problems. Examples of complexity classes and relationships between them.

Literature

recommended literature

JANČAR, Petr. *Teoretická informatika*. 2010. <http://phoenix.inf.upol.cz/~jancarp/VAS/jancar-ti-vsbs.pdf>

HOPCROFT, John E., Rajeev MOTWANI and Jeffrey D. ULLMAN. *Introduction to automata theory, languages, and computation*. 3rd ed. Boston: Pearson/Addison Wesley, 2007. xvii, 535. ISBN 0321455363.

ČERNÁ, Ivana, Mojmír KŘETÍNSKÝ and Antonín KUČERA. *Formální jazyky a automaty I (Formal Languages and Automata I)*. Brno: Masarykova univerzita, 2006. 159 pp. Elportal. ISSN 1802-128X. http://is.muni.cz/do/1499/el/estud/fil/js06/ib005/Formalni_jazyky_a_automaty_I.pdf

not specified

HROMKOVIČ, Juraj. *Sedem divov informatiky*. Ružomberok: Verbum, 2012. xi, 336. ISBN 9788080849580.

ESF:BPE_MIE1 Microeconomics 1

8 credits, type of completion zk (examination), course guarantor Ing. Michal Kvasnička, Ph.D.

Teacher(s)

Ing. Michal Kvasnička, Ph.D. (lecturer)
 prof. Ing. Zdeněk Tomeš, Ph.D. (lecturer)
 Ing. Mgr. Lucie Coufalová, Ph.D. et Ph.D. (seminar tutor)
 Mgr. Hana Fitzová, Ph.D. (seminar tutor)
 Ing. Petra Chovancová, Ph.D. (seminar tutor)
 Alla Kachur (seminar tutor)
 Ing. Michaela Kecskésová (seminar tutor)
 Ing. Marek Kloupar (seminar tutor)
 Ing. Martin Kutlak (seminar tutor)
 Ing. Jakub Moučka (seminar tutor)
 Ing. Tomáš Paleta, Ph.D. (seminar tutor)
 Ing. Vilém Pařil, Ph.D. (seminar tutor)
 Ing. et Ing. Michal Ševčík (seminar tutor)
 Ing. Magdalena Šuterová (seminar tutor)

Course objectives

In this course students will learn the basic principles of Microeconomics. They will get acquainted with the concept of preference, cost, revenue, elasticity, supply, demand, firm, market, externality etc., and their mutual relationship. The students will understand the operation of the market process and structure. They will be able to use the microeconomic analytical tools to describe and analyze the real world cases, and avoid usual analytical errors. They will understand consequences of changes of demand, cost, market structure, and basic policy changes.

Teaching methods

Lectures and tutorials

Assessment methods

The credit is awarded based on 1) student's performance in tutorials including three in-class problem sets, and 2) written multiple-choice test.

Learning outcomes

At the end of this course, students will be able to understand and explain when markets are good solution to mundane problem and when the government can improve its results. They will be also prepared to study microeconomics on the intermediate level in the consequent course.

Syllabus

1. Introduction into Economics
2. Interdependence and Gains from Trade
3. Market Forces of Supply and Demand
4. Elasticity and Its Applications
5. Consumers, Producers and Efficiency of Markets
6. Theory of Consumer Choice
7. Cost of Production
8. Firms in Competitive Markets
9. Monopoly and Monopolistic Competition
10. Oligopoly
11. Markets for Factors of Production
12. Externalities
13. Public Goods and Common Resources

Literature**required literature**

MANKIW, N. Gregory. *Principles of Economics*. 8th ed. South-Western College Pub, 2017. 836 pp. ISBN 1-305-58512-7.

MANKIW, N. Gregory. *Zásady ekonomie*. Praha: Grada, 2000. 763 s. ISBN 80-7169-891-1.

ESF:BPH_EKOR Corporate Economics

8 credits, type of completion zk (examination), course guarantor doc. Ing. Bc. Petr Suchánek, Ph.D.

Teacher(s)

doc. Ing. Bc. Petr Suchánek, Ph.D. (lecturer)
 doc. Ing. Veronika Hedija, Ph.D. (seminar tutor)
 Ing. Peter Mikuš (seminar tutor)
 Ing. Petr Mikuš, Ph.D. (seminar tutor)
 Mgr. Ing. Milan Sedláček, Ph.D. (seminar tutor)
 doc. Ing. Bc. Petr Suchánek, Ph.D. (seminar tutor)
 Ing. Viliam Záthurecký, MBA, Ph.D. (seminar tutor)

Course objectives

The course of Corporate economics is an introductory and relatively independent part of teaching fundamentals of business economics. Students get acquainted with the construction of a company. It clarifies the objectives of a company, classification of corporate production factors and their mutual relations. It focuses on general issues of corporate economics and economic events in the enterprise, regardless of the affiliation to a particular field or industry, and its profit or non-profit orientation. Along with the follow-up course of Corporate Economy II, where basic business functions and activities are taught, it provides a comprehensive view of a company. The main objective of the course is to obtain basic theoretical and practical knowledge of construction of a company.

Teaching methods

Education proceeds as lectures, that are teoretical preparing of students in the framework of discussed issues (according syllabus). This teoretical preparing is applied in tutorials, where students solve praktical examples (problems) from respective problem issues. Students learn to solve choice problems from organization practises and they gain practises skills too.

Assessment methods

Conditions of successful completion of the course: active participation in seminars, elaboration and presentation of an essay, successfully passed two mid-term tests and successfully passed oral examination.

Examination: written and oral.

Any copying, keeping a record of tests or carrying the tests out, using forbidden aids including any communication devices or any other breach of objectivity of the exam is regarded as a failure to meet the obligations of the subject and as a serious breach of study regulations. As a consequence, the teacher grades the student with "F" and the dean is allowed to initiate a disciplinary action, which might lead to the termination of the studies.

Learning outcomes

At the end of the course the student should be able to:

- clarify the subject matter and methods of analyzing and a segmentation in business economics
- interpret the structure of corporate production factors, their relationships and structure
- Identify different types and forms of companies
- Understand the causes and forms of business association
- Analyze development of a company and to describe individual stages of its life cycle

The knowledge gained in this course is further developed in the course of Business Economy, where topics such as business activities and functions are taught. Altogether, these two courses provide a comprehensive view of a company.

Syllabus

- 1) Organization as a part of national economy and the subject of corporate economy
- 2) Life cycle of organization
- 3) Legal forms of organizations
- 4) Sole traders and small and middle-sized organizations
- 5) Production factors in organization
- 6) System of organization goals, tools and management principles
- 7) Planning and decision-making in organization
- 8) Organisation and control of a organization
- 9) Remuneration and human labour performance
- 10) Long-term tangible assets and material as production factors of organization
- 11) Functions of organization
- 12) Business associations

Literature

required literature

SUCHÁNEK, Petr and David ŠPAČEK. *Ekonomika organizací (Corporate economics)*. 1st ed. Brno: Masarykova univerzita, 2010. 153 pp. 1.

WÖHE, Günter and Eva KISLINGEROVÁ. *Úvod do podnikového hospodářství*. Translated by Zuzana Maňasová. 2. přeprac. a dopl. vyd. Praha: C.H. Beck, 2007. xxix, 928. ISBN 9788071798972.

recommended literature

NOVOTNÝ, Jiří. *Nauka o podniku- výstavba podniku*. 1st ed. Plzeň: Aleš Čeněk, s.r.o., 2007. 213 pp. ISBN 978-80-7380-071-0.

SYNEK, Miloslav and Eva KISLINGEROVÁ. *Podniková ekonomika*. 6. přeprac. a dopl. vyd. V Praze: C.H. Beck, 2015. xxviii, 52. ISBN 9788074002748.

NOVOTNÝ, Jiří and Petr SUCHÁNEK. *Nauka o podniku I (The Business Economics I)*. 1st ed. Brno: MU ESF Brno, 2004. 164 pp. 1. ISBN 80-210-3333-9.

ESF:BPH_PINF Business Informatics

8 credits, type of completion zk (examination), course guarantor doc. Ing. Radoslav Škapa, Ph.D.

Teacher(s)

Ing. Mgr. Michal Krčál, Ph.D. (lecturer)
 doc. Ing. Radoslav Škapa, Ph.D. (lecturer)
 Ing. Mgr. Michal Krčál, Ph.D. (seminar tutor)
 Ahad Zareravasani, PhD (seminar tutor)

Course objectives

This course builds on the course from previous semester BPH_PIS1 Podnikové informační systémy and develops further the knowledge in the context of the whole information systems and not only its particular parts (e.g. ERP systems). The goal of this course is to offer the students more detailed knowledge of information technologies that are used in companies and more managerial topics from the information systems discipline. This course also allows students to gain deeper orientation in the discipline and helps them to choose appropriate specialized courses that will match their professional development. The course projects help the students in the next semester with the formulation of the topic for the final thesis.

Teaching methods

Lectures, seminars, discussion, team work, modeling, writing.

Assessment methods

Mid-term test, end-term essay
 Active seminar participation and seminar preparation
 Team project + project defense
 self-reflection of learning

Learning outcomes

Main course outcomes

At the end of the course the students will be able:

- to define main terms and concepts from the field of business informatics;
- to describe components of the enterprise information system including the features of the components;
- to explain the purpose and importance of the components of enterprise information systems;
- to apply the gained knowledge by making an analysis of given enterprise information system;
- to design a proposal for enterprise information system optimization;
- to know the latest technological solution for enterprise information systems;
- to orient at current IS/ICT market.

Syllabus

1. Introduction
2. IT Management and information strategy
3. a 4. SW Life-cycle (from pre-sales to support and maintenance)
5. HR in IT, ethics
6. IT Security and law
7. Enterprise Resource Planning
8. Customer Relationship Management
9. Supply Chain Management
10. Business Intelligence
11. Infrastructure applications
12. Emerging Technologies (AR/VR, AI, Blockchain, IoT)

Literature**required literature**

LAUDON, Kenneth C. and Jane Price LAUDON. *Management information systems* .: Sixteenth edition, global ed. Harlow, England: Pearson, 2020. 651 stran. ISBN 9781292296562.

MARAKAS, George M. and James A. O'BRIAN. *Introduction to information systems*. Sixteenth Edition. New York: McGraw-Hill/Irwin, 2013. xxxii, 732. ISBN 9780073376882.

recommended literature

GÁLA, Libor, Jan POUR and Zuzana ŠEDIVÁ. *Podniková informatika : počítačové aplikace v podnikové a mezipodnikové praxi*. 3., aktualizované vydání. Praha: Grada Publishing, 2015. 240 stran. ISBN 9788024754574. <https://www.bookport.cz/kniha/podnikova-informatika-2475>

TURBAN, Efraim, Linda VOLONINO, Gregory R. WOOD, Janice C. SIPIOR and Guy GESSNER. *Information technology for management : digital strategies for insight, action and sustainable performance*. 10th edition. Hoboken: Wiley, 2015. xi, 354. ISBN 9781118961261.

ESF:BPH_PIS1 Corporate Information Systems 1

6 credits, type of completion zk (examination), course guarantor Ing. Jaromír Skorkovský, CSc.

Teacher(s)

Ing. Jaromír Skorkovský, CSc. (lecturer)
Ing. Martina Gajdová (seminar tutor)

Course objectives

Annotation The structure of the subject is designed so that the students will be broadly acquainted with themes regarding ERP (Enterprise Resource Planning Systems). The acquired knowledge will be based on different points of view. The crucial role of ERP as a critical tool for managing all enterprise processes will be presented, including the architecture of these systems and terminology used in the field. The critical processes controlled by ERP systems will be introduced. Additionally, the student will be familiarized with the problems related to developing these systems, upgrades to new versions, and the product life cycle discussed concerning the Boston Matrix. The situation in the ERP market and solution selling methods will be broadly discussed based on the lecturer's 18 years of experience in this area. The basic set of knowledge for professionals in this field will be addressed, and the working conditions and relationship knowledge and marketing methods will be examined, including the competitive advantages for students. The possibilities of acquired knowledge utilization will be explored, including all imaginable requirements from prospective employers. During these lessons, we will go through the primary methods used for process control with necessary relationships to ERP tools such as Theory of Constraints, Risk Management, Project Management, Critical Chain, Balanced Scorecard, Business Intelligence, Ishikawa Fishbone diagram, Kepner-Tregoe methodology, and fundamental process optimization by use of a simplex algorithm. The basics of Little's law. The students will be acquainted with confirmed case studies during the course. This knowledge transfer will be based on the actual expertise of the lecturer who has worked and still works on domestic and international ERP implementation projects. During the hands-on parts of the subject, the students will perform the essential functions using the ERP MS Dynamics NAV RTC 2016w1, such as Financial Management, Purchase and Sales, Supply Chain Management, Inventory Management, and Costing and Basic Manufacturing Principles. The students will acquire the necessary information about the inner logic of the system and how to control given tasks. They will be able to solve problems related to material and financial flows and see all impacts of various managerial decisions. The main aims of the subject are as follows: The student will understand the reasons for ERP usage as a nonexpendable tool for controlling processes. The student will acquaint knowledge of the ERP market and all business processes related to intangible assets and services sales. Understanding the basics of modern managerial methods and defining the problems often nested in a range of business and production processes, where customers expect, that usage of ERP systems will help them decrease the inauspicious influences. Students will be able to define the benefits expected due to implementation processes. Every student will probably meet these problems in their everyday professional practice, and the knowledge acquired in this subject will improve their orientation and give them a significant competitive advantage.

Teaching methods

Lectures and seminars, modelling the typical case studies by using chosen ERP system and related discussions, self study, hands-on ERP systems and use of training materials including e-learning files.

Assessment methods

For standard full-time study the courses will be split into 13 blocs of lectures and every block will be 2 hours. Related seminars will also be split into 13 blocs and every block will be 2 hours. The subject is not provided for combined or other forms of study except for full-time study. Taking into consideration the complex characteristics of the subject the tuition requires, that the course switches often from lectures to hands-on procedures and vice versa, so the attendance is mandatory for lectures and seminars. In every lesson the teacher will require discussion about the subject and will present real case studies from his expertise for a better understanding of usage of managerial methods and tools. Students will be supplied by the latest available demo version of an ERP system and it is expected, that this demo version will be installed on their private computers in order to check acquired skills during self study. The student ability to operate demo version of ERP during seminars will be continuously checked by teacher. The first part of the final exam will consist of a written part, in which the student will prepare a basis for the subsequent oral exam about managerial methods and the second hands on part where the student will present a required example of a daily processes in ERP. The question will be supplied in advance and will be stored on the university server. The manuals and power points presentation related to every provided chapter will be stored on that server as well as written materials, which help to model required processes in ERP system. Any copying, keeping a record of tests or carrying the tests out, using forbidden aids including any communication devices or any other breach of objectivity of the exam is regarded as a failure to meet the obligations of the subject and as a serious breach of study regulations. As a consequence, the teacher grades the student with "F" and the dean is allowed to initiate a disciplinary action, which might lead to the termination of the studies. The questions used for BPH_PIS1 testing is considered as a basics for questions used for Bachelor's final state examination. The acquired knowledge of BPH_PIS1 will be useful for elaboration of Bachelor's thesis.

Learning outcomes

Student will be able to:

- understand the reasons for using modern ERP systems;
- orientation in the ERP market;
- interpret the nature of services associated with the implementation of these systems;
- perform a pre-sales analysis, based on customer requirements in order to design a perimeter of a solution based on the functions of ERP systems;
- define the benefits of using ERP systems;
- use of methods of operation management in order to suggest optimal solution for customer ;

Syllabus

1. week: ERP characteristics I and ERP market, terminology I, architecture
2. week: ERP characteristics II, terminology II, usage of ERP, basic ERP structures
3. week: Expected benefits , critical factors and risks, personal backup
4. week: Internal ERP flowcharts I, workflow and ERP
5. week: Internal ERP flowcharts II, OLAP and ERP
6. week: Inventory introduction, marketing and EPR, SWOT, Boston matrix, Pareto analysis
7. week: Purchase and Payables, other connected systems, back a front-office, MIS, OIS
8. week: General Ledger Introduction ERP I and related analytical tools, Theory of constraints
9. week: Implementation processes, Critical chain I, Little 'law
10. week: Sales and receivables and use of related analytical tools, Critical chain II, Kepner-Tregoe
11. week: Introduction General Ledger in ERP II, Linear programming principles and its use
12. week: Logistics in ERP I and analysis, Balance Score Card, Gartner Magic Quadrant
13. week: Production control in ERP II and analysis, Account schedule and budgets, Fishbone diagram, Drum-Buffer-Rope method, Yield Management

Literature

required literature

BASL, Josef. *Podnikové informační systémy : podnik v informační společnosti*. 1. vyd. Praha: Grada, 2002. 142 s. ISBN 8024702142.

recommended literature

VYMĚTAL, Dominik Dr.Sc. *Podnikové informační systémy-ERP (Enterprise Information Systems-ERP)*. první. Karviná: Slezská univerzita v Opavě, Obchodně- podnikatelská fakulta v Karviné, 2010. 453 pp. ISBN 978-80-7248-618-2.

VYMĚTAL, Dominik. *Základy informatiky pro ekonomy*. Karviná: Slezská univerzita v Opavě, 2009. 123 s. ISBN 9788072485345.

Informační systémy a jejich řízení. Edited by Jiří Voříšek. 1. vyd. Praha: Bankovní institut, 1997. 278 s.

POUR, Jan. *Informační systémy a elektronické podnikání*. Praha, 2001. ISBN 80-245-0277-5.

BASL, Josef. *Podnikové informační systémy : podnik v informační společnosti*. Edited by Roman Blažiček. 3., aktualiz. a dopl. vyd. Praha: Grada, 2012. 323 s. ISBN 9788024743073. <https://www.bookport.cz/kniha/podnikove-informacni-systemy-746>

BASL, Josef, Pavel MAJER and Miroslav ŠMÍRA. *Teorie omezení v podnikové praxi : zvyšování výkonnosti podniku nástroj TOC*. 1. vyd. Praha: Grada, 2003. 213 s. ISBN 80-247-0613-X.

ESF:BPH_PIS2 Corporate Information Systems 2

6 credits, type of completion zk (examination), course guarantor Ing. Jaromír Skorkovský, CSc.

Teacher(s)

Ing. Jaromír Skorkovský, CSc. (lecturer)
Ing. Martina Gajdová (seminar tutor)

Course objectives

Annotation The composition of the subject, which is a continuation of BPH_PIS1 (Enterprise Resource Planning System I), is designed in such a way, that students will use all knowledge acquired in previous subjects, especially BPH_PIS1 and this knowledge will be significantly approved. Financial management, budgets, and analysis will be mentioned. Several solutions to complicated business cases will be presented. These cases will be solved using tools, which could be used for such a purpose, meaning frame, substitutions, reservation system, ATP/CTP, drop shipment, combined shipment, non-stocking unit and non-stock items, and so on. The student will acquire skills to practice these tools. CRM and its use, advanced logistics, basics of production planning. Some new methods will be appended such as Drum-Buffer-Rope, P&Q analysis, Kepner_Tregoe Method used for decision making, metrics used in informatics, Pareto analysis and use of Pareto principles in FBD Ishikawa evaluation and knowledge of data analysis by means of OLAP technology including brand new case studies taken from the real experience portfolio of the teacher. The main aims of the subject Understanding the reasons for ERP usage as a nonexpendable tool for controlling processes; adoption of main relations and function of ERP system; acquaintance of ERP market and business processes connected to the sales of intangible assets and services connected to it; understanding of the basics of modern managerial methods and defining the problems often nested in a range of business and production processes, acquaintance of the set of skills, which are necessary to understand the customer need and optimal setup of ERP system in course of implementation process; be able to show the impacts of possible bad managerial decisions; understanding of benefits and bottom lines, which customers expect and believe in reaching if using a correctly implemented ERP system. Every student will probably meet these problems in their every day professional life, and acquired knowledge will be very useful to solve them. Moreover, it is broadly known, that there is a constant lack of highly qualified consultants on the market and improving orientation of the students due to the successful pass of this subject give to our students a significant competitive advantage. Moreover, this is one of the main aims of BPH_PIS2.

Teaching methods

Lectures and seminars, modelling the typical case studies by using chosen ERP system and related discussions, self study, hands-on ERS systems. For better understanding of ERP student will be supplied by training materials including e-learning files

Assessment methods

For the standard full-time study, the course will be split into 13 blocs of lectures and every block will be 2 hours. Related seminars will also be split into 13 blocks and every block will be 2 hours. The subject is not provided for combined or other forms of study except for full-time study. The complex character of the subject requires, that the course switches from lectures to hands-on procedures and vice versa, so the attendance is mandatory for lectures and seminars. In every lesson, the teacher will require a discussion about the subject and will present real case studies from his expertise for a better understanding of the usage of managerial methods and tools. Students will be supplied with the latest available demo version of an ERP system and it is expected, that this demo version will be installed on their private computers in order to check acquired skills during self-study. The student ability to operate the demo version of ERP during seminars will be continuously checked by the teacher. The first part of the final exam will consist of a written part, in which the student will prepare a basis for the subsequent oral exam about managerial methods and the second hands-on the part where the student will present a required example of a daily process in ERP. The question will be supplied in advance and will be stored on the university server. The manuals and power points presentation related to every provided chapter will be stored on that server as well as the written materials, which will help to model required processes in ERP system. The questions used for BPH_PIS2 testing is considered as basic for questions used for Bachelor's final state examination. The acquired knowledge of BPH_PIS2 will be useful for the elaboration of Bachelor's thesis. Any copying, keeping a record of tests or carrying the tests out, using forbidden aids including any communication devices or any other breach of objectivity of the exam is regarded as a failure to meet the obligations of the subject and as a serious breach of study regulations. As a consequence, the teacher grades the student with "F" and the dean is allowed to initiate disciplinary action, which might lead to the termination of the studies.

Learning outcomes

Student will be able to:

- learn how to use the modern ERP system;
- using the ERP system to model and analyse business processes;
- to be able to set up an ERP system so that the system efficiently controls the required processes;
- to communicate with programmers in order to hand over requirement linked to customized ERP objects that are not included in the standard ERP;
- use the ERP knowledge of MS Dynamics NAV to handle other ERP's available on the market;

Syllabus

1.week: main principles of system setup, source data, table relations, business case scheme, impact to General Ledger (G/L), basics entry types (item, customer and vendor entries, value entries, reservation entries and general ledger entries). The main substance and use of this rough data for reporting 2.week : Purchase and sales orders, three types of discounts, reservation, credit limits ad dues dates, warning setup 3.week : Inventory management, locations, bins, basics of warehouse management, safety stock, batch sizes, function Available-to-Promise , net requirement calculation, replenishment methods. Warehouse entries and receiving, put-aways, picking and shipment 4. week : Inventory costing (cost adjustment, different types of entry application, Application worksheet) 5: week : Basic production scheme, bill of material, routings, basics of capacity planning,

production order types and metrics used in information technologies 6.week : Advanced production scheme I., MTS and MTO production, loading of resources and basic algorithms (MRP, MRP-II, Drum-Buffer-Rope, JIT,..) 7.week: Advanced production scheme II, lean manufacturing, production batches and serial numbers 8.week : CRM, Pareto analysis in ERP and tools for analysis incorporated in ERP MS Dynamics NAV 9.week : Accounting schemes and analysis by dimensions, OLAP 10.week: Analysis view, inventory costing - examples, budgets, 11.week: Blanket orders, drop shipment, substitutions, cross-references, non-stock items, stock keeping units, reminders, reservations. 12.week: P&Q analysis, revision — workshop (FAQ) 13.week: Assembly orders — workshop (FAQ)

Literature

required literature

VYMĚTAL, Dominik Dr.Sc. *Podnikové informační systémy-ERP (Enterprise Information Systems-ERP)*. první. Karviná: Slezská univerzita v Opavě, Obchodně- podnikatelská fakulta v Karviné, 2010. 453 pp. ISBN 978-80-7248-618-2.

BASL, Josef, Pavel MAJER and Miroslav ŠMÍRA. *Teorie omezení v podnikové praxi : zvyšování výkonnosti podniku nástroj TOC*. 1. vyd. Praha: Grada, 2003. 213 s. ISBN 80-247-0613-X.

recommended literature

BASL, Josef. *Podnikové informační systémy : podnik v informační společnosti*. Edited by Roman Blažiček. 3., aktualiz. a dopl. vyd. Praha: Grada, 2012. 323 s. ISBN 9788024743073. <https://www.bookport.cz/kniha/podnikove-informacni-systemy-746>

HOEVEN, Hans van der. *ERP and business processes : illustrated with Microsoft Dynamics NAV 2009*. Edited by Sandra B. Richtermeyer. Coral Springs: Llumina Press, 2009. viii, 239. ISBN 9781605943053.

GOLDRATT, Eliyahu M., Eli SCHRAGENHEIM and Carol A. PTAK. *Jak vzniká zisk : manažerský román o tom, že moderní technologie samy úspěch nezaručí*. 1. vyd. Praha: Grada, 2004. 242 s. ISBN 8024709546.

GOLDRATT, Eliyahu M. *Kritický řetěz*. Translated by Jan Jiráček. Vyd. 1. Praha: InterQuality, 1999. 200 s. ISBN 80-902770-0-4.

GOLDRATT, Eliyahu M. and Jeff COX. *The goal :a process of ongoing improvement*. 2nd revised ed. Greath Barrington: North River Press, 1992. 351 s. ISBN 0-88427-061-0.

ESF:BPH_POEK Business Economics

7 credits, type of completion zk (examination), course guarantor doc. Ing. Bc. Petr Suchánek, Ph.D.

Teacher(s)

doc. Ing. Bc. Petr Suchánek, Ph.D. (lecturer)
Ing. Petr Mikuš, Ph.D. (seminar tutor)
Ing. Viliam Záthurecký, MBA, Ph.D. (seminar tutor)

Course objectives

Business Economics relates to the subject Corporate Economics. The company is recognized in the four different points of view. Firstly the company is seen as the creator of value for existing market demand. Another point of view is the decision making process concerning the company production based on the cost analysis followed by the research and development process which is connected with the innovations within the company. Third point of view is focused on the placing company's production on the markets, what is connected with pricing practices. Last point of view is dedicated to the capital structure of the company which includes investing and financing of the business. The main objective of the course is to obtain basic theoretical and practical knowledge of a company based on the information from other courses as Microeconomics, Corporate economics, Financial accounting. It is also the ground for the following subjects as Management I, Marketing I, Managerial accounting, Controlling which can help students to understand the rules and principles of business economy. Beside the theoretical background, the goal of this subject is also to observe the complexity and coherence of relations within business practice regardless the professional focus of the company. Student graduating this subject should be able to define primary and supporting function of the company, to define the background which leads to the placing the products on markets, to define the costs of inputs of the created value and to specify the controlling methods, to define the basic rules and principals of the marketing incl. Basic rules of pricing - to specify the nature of investing and financing activities and to define the basic rules and principles of the finance accounting, managerial accounting and financial analysis

Teaching methods

The course is divided into the lectures which are dedicated to the relevant theme. The lecture is followed by the tutorials focused on the business practice. Students also have to elaborate the seminar paper on relevant issue.

Assessment methods

Conditions of successful completion of the course: participation on tutorials, elaboration of seminar paper (written followed by the PowerPoint presentation) min limit 60% for paper and passed mid-term test. Course is completed by the written exam. Any copying, keeping a record of tests or carrying the tests out, using forbidden aids including any communication devices or any other breach of objectivity of the exam is regarded as a failure to meet the obligations of the subject and as a serious breach of study regulations. As a consequence, the teacher grades the student with "F" and the dean is allowed to initiate a disciplinary action, which might lead to the termination of the studies.

Learning outcomes

Students passing Business Economics should be able :

- to define the primary and the support activities of the company
- to define the basis for the company's decision about its production and its realisation on the market
- to define the costs of production and the methods of their control
- to define and the basis of marketing and sale in the company, including the marketing policy
- to explain the basis of company's investment and financing
- to define the basis of managerial accounting and controlling
- to explain and to apply the finance analysis of the company

Syllabus

● 1. Creating value in the firm □ Porter's value chain □ Primary and supporting activities □ Tangible, informational and financial flows of the firm □ 2. Typology of companies □ Specifics of manufacturing plant □ Specifics of companies providing services □ SME, □ Family business ● 3. Demand for consumption products. □ The basis for demand □ industry and firm demand □ demand analysis, demand forecasting □ 4. Business environment □ specification and identification of stakeholders □ basic rules and principles of the market analysis □ marketing strategies ● 5. Cost analysis, □ Cost classification □ Cost according the volume of providing outputs □ Production theory 6. Primary activities - inbound logistic □ buying activities □ suppliers □ warehousing □ logistic □ distribution 7. Primary activities - operation production □ Lifecycle of the product □ Innovation of product and process innovation □ Programme of manufacturing □ Process of manufacturing ● 8. Primary activities - Sales and sales policy ● Product policy, □ Pricing policy □ Communication policy □ Distributing policy ● 10. Supporting activities - Human resources □ Personal management □ Personal planning □ Organization of personal work ● 11. Supporting activities - investment □ capital structure and structure of assets □ basic methods of investment evaluation □ break event point analysis, 12. Supporting activities - Company financing □ System of financial and managerial financing □ financial documents □ cash flow, working capital, indicator of efficiency ● 13. Supporting activities - research and development, innovation □ typology and taxonomy of innovation □ innovation process □ innovation and invention □ innovation as competitive advantage

Literature**required literature**

SYNEK, Miloslav. *Manažerská ekonomika*. 5th ed. Praha: Grada, 2011. 471 pp. ISBN 978-80-247-3494-1.

WÖHE, Günter and Eva KISLINGEROVÁ. *Úvod do podnikového hospodářství*. Translated by Zuzana Maňasová. 2. přeprac. a dopl. vyd. Praha: C.H. Beck, 2007. xxix, 928. ISBN 9788071798972.

PORTER, Michael E. *Konkurenční výhoda : (jak vytvořit a udržet si nadprůměrný výkon)*. Edited by Vladimír Irgl. Praha: Victoria Publishing, 1993. 626 s. ISBN 8085605120.

PAPPAS, James L. and Mark HIRSCHHEY. *Fundamentals of managerial economics*. 3rd ed. Chicago: Dryden Press, 1989. xx, 652. ISBN 003012364X.

recommended literature

KOTLER, Philip and Kevin Lane KELLER. *Marketing management*. 15 global edition. Boston: Pearson, 2016. 714, 14. ISBN 9781292092621.

MAGRETTA, Joan. *Michael Porter jasně a srozumitelně : o konkurenci a strategii*. Vyd. 1. Praha: Management Press, 2012. 231 s. ISBN 9788072612512.

KISLINGEROVÁ, Eva. *Manažerské finance*. 3. vyd. Praha: C.H. Beck, 2010. xxxviii, 8. ISBN 9788074001949.

NOVOTNÝ, Jiří and Petr SUCHÁNEK. *Nauka o podniku II (The Business Economics II)*. 1st ed. Brno: MU ESF Brno, 2007. 141 pp. DSO 1. ISBN 978-80-210-4496-8.

SYNEK, Miloslav. *Podniková ekonomika*. Vyd. 1. Praha: C.H. Beck, 1999. xxii, 456. ISBN 8071792284.

2.2 Profile core courses (P)

These are required or selective courses, the completion of which the student acquires the knowledge or skills essential to achieving the programme of study learning outcomes. The content of these subjects is included in the final state exam.

FI:PB001 Introduction to Information Technologies

2 credits, type of completion zk (examination), course guarantor prof. RNDr. Luděk Matyska, CSc.

Teacher(s)

prof. RNDr. Luděk Matyska, CSc. (lecturer)
doc. RNDr. Eva Hladká, Ph.D. (lecturer)

Course objectives

To provide basic orientation in the information technology fields is the main goal of this lecture. Not only hardware and software is discussed, but the social extent is covered as well.

The graduate will be able to understand function of simple computer systems.

Graduate will be also able to understand and explain relationship between components of more complex computer systems.

Graduate will be also able to analyze and explain behavior of operating systems, computer networks etc. from the user point of view.

Graduate will be able to analyze and evaluate ethical implications of his own work.

Teaching methods

Lecture, no homework nor drills.

Assessment methods

No evaluated home work or drills. Only final exam after all the lectures read (12 questions/subject that must be explicitly answered/discussed, 150 points in total; length of examination is 90 minutes)

Learning outcomes

At the end of this course student will have basic orientation in computer and information technologies and their design. Specifically, she will understand basic principles of computer and computer systems design, she will be acquainted with principles of programming and specific constructs like interruption, synchronization, input/output. She will know basic principles of design of operating systems that are used as an example of complex computer systems; she will know what API is.

He will also get basic overview and orientation in computer networks and computer graphics.

The graduate will also get basic orientation in ethics and professional context and she will also be able to comment societal impacts of computer technology.

Syllabus

Computer and communication system, role of components (architecture, operating systems, computer networks), applications.

Social and ethical dimension of IT.

Computer architecture, data representation, von Neumann model, basic machine organization.

Role of operating systems, history, functionality of a typical contemporary OS.

Design principles, efficiency, robustness, flexibility, compatibility, ...

Influence of requirements of security, networking, graphical interfaces, ...

OS structure (monolithic, layered, modular, micro-kernel).

Abstraction, processes, resources, application interfaces.

I/O devices and their management, drivers.

Protection, system and user space, kernel.

Networks, their history, Internet, fundamentals of network architecture, distributed systems.

Protocols, multimedia systems, distributed computing, mobile and wireless computing.

Basics of Human-Computer interaction, graphical systems.

Social context of IT, Information society, New economics.

Internet, grows, management, international issues.

Professional and ethical responsibility, basic laws (personal data protections, digital signature, ...). Ethic codes, professional bodies, organizational's "Acceptable use policy".

Literature

KAIN, Richard Y. *Advanced computer architecture :a systems design approach*. Englewood Cliffs: Prentice-Hall, 1996. xvii, 907. ISBN 0-13-007741-0.

SINGHAL, Mukesh, Yoshiaki SHIRAI and Niranjana G. SHIVARATRI. *Advanced concepts in operating systems : distributed, database, and multiprocessor operating systems*. New York: McGraw-Hill, 1994. xxii, 522. ISBN 0-07-057572-X.

PETERSON, Larry L. and Bruce S. DAVIE. *Computer networks :a systems approach*. San Francisco: Morgan Kaufmann Publishers, 1996. xxiii, 552. ISBN 1-55860-368-9.

J. Kurose, K. Ross: *Computer Networking: A Top-Down Approach Featuring the Internet*, Addison-Wesley, 2000

HWANG, Kai and Faye A. BRIGGS. *Computer Architecture and Parallel Processing*. New York: McGraw-Hill, 1984. 846 s. ISBN 0070315566.

ESF:BPH_BAS1 Bachelor Thesis Seminar 1

5 credits, type of completion z (credit), course guarantor doc. Ing. Mgr. Jakub Procházka, Ph.D.

Teacher(s)

doc. Ing. Ondřej Částek, Ph.D. (lecturer)

Mgr. et Mgr. Tomáš Ondráček, Ph.D. (lecturer)

doc. Ing. Mgr. Jakub Procházka, Ph.D. (lecturer)

doc. Ing. Bc. Petr Suchánek, Ph.D. (lecturer)

Ing. Bc. Alena Šafrová Drážilová, Ph.D. (lecturer)

doc. Ing. Alena Klapalová, Ph.D. (seminar tutor)

doc. Ing. Radoslav Škapa, Ph.D. (seminar tutor)

Course objectives

The aim of the course is a) to teach students to solve professional and research problems in the fields of business, management or business informatics using scholarly publications and primary and secondary data; b) to teach students to think critically about existing scientific knowledge and data obtained using various research methods. In the short term, the course helps students write a quality bachelor thesis. From a long-term perspective, it prepares them to work with new knowledge in the field and to solve new problems in various positions in companies or in research.

Teaching methods

Frontal presentations (within seminars), solving model problems (within seminars), learning by doing (writing a bachelor thesis), feedback and mentoring (from the supervisor and during final presentations)

Assessment methods

Outputs from the course are a) final test and b) half of the text of the thesis. The test is based on the content of seminars that are available in Interactive syllabus. The test is written online via IS, has multiple-choice questions, and the students are allowed to use any literature and their notes when writing. To successfully complete the test, the students should get at least 40% of points.

The credits are awarded by the supervisor of the thesis. Credit will be awarded to a student if the student a) passes the test, b) submits a part of his / her thesis.

The student should submit about half of the thesis, after at least one consultation. The expected range and the exact deadline are agreed with the supervisor at the beginning of the semester.

Learning outcomes

After completing the course, students will be able to: - design a method to obtain valid primary data useful for solving a research or managerial problem,
- select an appropriate sample to draw valid conclusions for the enterprise or for a selected population of enterprises or individuals,
- use primary data or previously published findings to solve a research or managerial problem,
- evaluate the costs and economic benefits of own proposals,
- adhere to the rules of research and publication ethics.

Syllabus

Teaching takes place in three forms. The first is writing a bachelor thesis under the supervision of a consultant. The second form consists of reading the textbook and recommended literature on the methodology of social science research and solving of professional problems in the fields of business and management. The third form consists of seminars.

Topics:

1. Introduction

- Schedule and requirements

2. Sampling

- Sampling methods

- External validity of research, how to generalize results

3. Methods of data collection

- How to choose a suitable method of data collection

- Why data can be unreliable

- How (not) to formulate questions in the questionnaire and interview

4. Research ethics, ethics of writing academic manuscripts**5. Data analysis**

- When it is and when it is not appropriate to use statistical analyses

- Standards of work with statistical methods in business, management and business informatics

6. Economic evaluation of proposals

- How to economically evaluate a solution of managerial problems

- How to take into account the economic aspects of the recommendations resulting from research

Literature**required literature**

Akademické psaní - <https://www.econ.muni.cz/akap/>

• KULHAVÝ, Viktor aj. Doporučení pro zpracování závěrečných prací. Interní materiál. Dostupné v elektronické podobě ve studijních materiálech předmětu

SAUNDERS, Mark, Philip LEWIS and Adrian THORNHILL. *Research methods for business students*. Eight edition. Harlow: Pearson, 2019. xxxiii, 83. ISBN 9781292208787.

ČSN ISO 690. *Informace a dokumentace — Pravidla pro bibliografické odkazy a citace informačních zdrojů*. 2011.

recommended literature

RABUŠIC, Ladislav, Petr SOUKUP and Petr MAREŠ. *Statistická analýza sociálněvědních dat (prostřednictvím SPSS)*. 2., přepracované vydání. Brno: Masarykova univerzita, 2019. 573 stran. ISBN 9788021092488.

The SAGE handbook of qualitative business and management research methods : history and traditions. Edited by Catherine Cassell - Ann L. Cunliffe - Gina Grandy. Los Angeles: Sage, 2018. xxii, 597. ISBN 9781526429261.

FIELD, Andy. *Discovering Statistics Using IBM SPSS Statistics.* 5th. Sage Publishing, 2017. ISBN 978-1-5264-4578-0. <https://uk.sagepub.com/en-gb/eur/discovering-statistics-using-ibm-spss-statistics/book257672>

FIELD, Andy P., Jeremy MILES and Zoé FIELD. *Discovering statistics using R.* First published. Los Angeles: Sage, 2012. xxxiv, 957. ISBN 9781446200452.

GERŠLOVÁ, Jana. *Vádemékum vědecké a odborné práce.* 1. vyd. [Praha]: Professional Publishing, 2009. 148 s. ISBN 9788074310027.

ŠANDEROVÁ, Jadwiga and Alena MILTOVÁ. *Jak číst a psát odborný text ve společenských vědách :několik zásad pro začátečníky.* Vyd. 1. Praha: Sociologické nakladatelství, 2005. 209 s. ISBN 8086429407.

PIMPLE, Kenneth D. Six domains of research ethics. *Science and Engineering Ethics.* 2002, vol. 8, No 2, p. 191-205. ISSN 1353-3452.

ESF:BPH_BAS2 Bachelor Thesis Seminar 2

5 credits, type of completion z (credit), course guarantor doc. Ing. Alena Klapalová, Ph.D.

Teacher(s)

doc. Ing. Alena Klapalová, Ph.D. (lecturer)

Course objectives

The aim of the course is to complete and prepare for the defence the bachelor thesis.

Teaching methods

Individual study and consultations with the supervisor.

Assessment methods

Writing Bachelor Thesis and participation in consultations are evaluated as requirements fulfilled/not fulfilled. Credits are granted of the supervisor at the end of the semester after all criteria have been met.

Learning outcomes

At the end of this course, student should be able to approach writing the bachelor thesis as a scientific work; The student should be able to properly conceiving the bachelor thesis; The student should be able to choosing the correct strategy and tactics of professional text writing - of managing the project of thesis. The student should be able to learn to quickly and correctly read and process information sources and keep to the rules of publishing ethics. Students will acquire knowledge of principles of professional-style writing. Last but not least the student should be able to establishing, implementing and evaluating empirical investigation and formulating recommendations that result from that investigation. At the end of this course, student should be able to demonstrating their awareness of principles of successful presentation at the defence of the thesis. The ultimate objective would be for students to be able to apply the knowledge in practice.

Syllabus

Individual consultation with the supervisor of the thesis during the semester.

Literature

required literature

Interaktivní osnova předmětu Akademické psaní - <https://www.econ.muni.cz/akap>

<http://www.econ.muni.cz/t619/>

ŠANDEROVÁ, Jadwiga and Alena MILTOVÁ. *Jak číst a psát odborný text ve společenských vědách :několik zásad pro začátečníky.* Vyd. 1. Praha: Sociologické nakladatelství, 2005. 209 s. ISBN 8086429407.

recommended literature

GERŠLOVÁ, Jana. *Vádemékum vědecké a odborné práce.* 1. vyd. [Praha]: Professional Publishing, 2009. 148 s. ISBN 9788074310027.

HAGUE, Paul N. *Průzkum trhu.* Vyd. 1. Brno: Computer Press, 2003. 234 s. ISBN 8072269178.

ESF:BPH_TEBP Bachelor Thesis

3 credits, type of completion z (credit), course guarantor doc. Ing. Alena Klapalová, Ph.D.

Teacher(s)

prof. Ing. Ladislav Blažek, CSc. (seminar tutor)
 doc. Ing. Ondřej Částek, Ph.D. (seminar tutor)
 Ing. Renata Čuhlová, Ph.D., BA (Hons) (seminar tutor)
 Ing. Bc. Michal Ďuríník, Ph.D. (seminar tutor)
 Ing. Michal Jirásek, Ph.D. (seminar tutor)
 doc. Ing. Alena Klapalová, Ph.D. (seminar tutor)
 Ing. Mgr. Michal Krčál, Ph.D. (seminar tutor)

Ing. Ladislava Kuchynková, Ph.D. (seminar tutor)
 doc. Ing. Pavla Marciánová, Ph.D. (seminar tutor)
 Ing. Petr Mikuš, Ph.D. (seminar tutor)
 Ing. Dušan Mladenović, Ph.D. (seminar tutor)
 Mgr. et Mgr. Tomáš Ondráček, Ph.D. (seminar tutor)
 doc. Ing. Petr Pirožek, Ph.D. (seminar tutor)
 doc. Ing. Mgr. Jakub Procházka, Ph.D. (seminar tutor)
 Mgr. Ing. Milan Sedláček, Ph.D. (seminar tutor)
 Ing. Jaromír Skorkovský, CSc. (seminar tutor)
 Ing. Petr Smutný, Ph.D. (seminar tutor)
 doc. Ing. Bc. Petr Suchánek, Ph.D. (seminar tutor)
 Ing. Bc. Alena Šafrová Drážilová, Ph.D. (seminar tutor)
 Ing. Ladislav Šiška, Ph.D. (seminar tutor)
 doc. Ing. Radoslav Škapa, Ph.D. (seminar tutor)
 Ing. Eva Švandová, Ph.D. (seminar tutor)
 Aħad Zararavasan, PhD (seminar tutor)
 Ing. Viliam Záthurecký, MBA, Ph.D. (seminar tutor)
 Mgr. Ing. Jan Žák (seminar tutor)
 Ing. Bc. Sylva Žáková Talpová, Ph.D. (seminar tutor)

Course objectives

The aim of the course is a) to teach students how to solve complex professional and research problems in the fields of business, management or business informatics using scholarly publications and primary and secondary data; b) to teach students to think critically about existing scientific knowledge and data obtained using various research methods. In the short term, the course helps students write a quality thesis. From a long-term perspective, it prepares them to work with new knowledge in the field and to solve new problems in various positions in companies or in research.

Teaching methods

Lectures, learning by doing (writing a thesis), sample problems, feedback and mentoring (from the supervisor)

Assessment methods

The credits are awarded by the supervisor of the thesis. Credit will be awarded to a student if the student a) passes the test, b) submits a research proposal with literature review. The test is based on the content of lectures. The test is written online via IS, and the students are allowed to use any literature and their notes when writing. To successfully complete the test, the students should get at least 40% of points.

The expected range and the exact deadline for the research proposal are agreed with the supervisor at the beginning of the semester.

Learning outcomes

At the end of the course a student should be able to: - prepare a complex review of scholarly publications on the topic of business, management or business informatics,
 - identify problems in research designs and in conclusions of the scholarly papers,
 - formulate a research or managerial problem and justify the need to solve it,
 - suggest a strategy for obtaining data useful for solving a research or managerial problem,
 - follow the rules of research and publication ethics.

Syllabus

Teaching takes place in two forms. The first is writing a thesis under the supervision of a consultant. The second form consists of seminars (records in interactive syllabus in IS) focused on the methodology of social science research and solving of professional problems in the fields of business, management and business informatics.

Topics:

1. Rules for theses at Department of Corporate Economics
2. Research problem, research question and hypothesis
3. Solving a managerial problem
4. Quantitative research strategies
5. Qualitative research designs
6. Review of scholarly literature
7. Critical work with text and argumentation

Literature

SAUNDERS, Mark, Philip LEWIS and Adrian THORNHILL. *Research methods for business students*. Eight edition. Harlow: Pearson, 2019. xxxiii, 83. ISBN 9781292208787.

2.3 Other compulsory and selective courses

FI:IB000 Mathematical Foundations of Computer Science

4 credits, type of completion zk (examination), course guarantor prof. RNDr. Petr Hliněný, Ph.D.

Teacher(s)

prof. RNDr. Petr Hliněný, Ph.D. (lecturer)
 Bc. Jakub Balabán (seminar tutor)
 RNDr. Nikola Beneš, Ph.D. (seminar tutor)

Mgr. Tomáš Foltýnek, Ph.D. (seminar tutor)
Bc. Jan Jedelský (seminar tutor)
Tomáš Jusko (seminar tutor)
RNDr. David Klaška (seminar tutor)
doc. RNDr. Martin Maška, Ph.D. (seminar tutor)
doc. RNDr. Pavel Matula, Ph.D. (seminar tutor)
RNDr. Petr Novotný, Ph.D. (seminar tutor)
doc. Mgr. Jan Obdržálek, Ph.D. (seminar tutor)
Mgr. Kristýna Pekárková (seminar tutor)
RNDr. Filip Pokrývka (seminar tutor)
Jindřich Sedláček (seminar tutor)
Bc. et Bc. Roman Solař (seminar tutor)
doc. RNDr. David Svoboda, Ph.D. (seminar tutor)
Adéla Štěpková (seminar tutor)
Dávid Šutor (seminar tutor)
Vojtěch Turland (seminar tutor)

Course objectives

This course is focused on understanding basic mathematical concepts necessary for study of computer science. This is essential for building up a set of basic concepts and formalisms needed for other theoretical courses in computer science. At the end of this course the successful students should: know the basic mathematical notions; understand the logical structure of mathematical statements and mathematical proofs, specially mathematical induction; know discrete mathematical structures such as finite sets, relations, functions, and graph; be able to precisely formulate their claims, algorithms, and relevant proofs; and apply acquired knowledge in other CS courses as well as in practice later on.

Teaching methods

This subject has regular weekly lectures and compulsory tutorials. Moreover, the students are expected to practice at home using online questionnaires, via IS MU. All the study materials and study agenda are presented through the online IS syllabus.

Assessment methods

Students' evaluation in this course consists of (the sum of) three parts which have roughly equal weights: through term evaluation (minimal score is required), "computer" written exam, and optional classical written exam.

The semester evaluation is computed as the sum of a certain number of the best out of all term tests, plus possible bonus points for solving voluntary assignments. Details can be found in the IS course syllabus. Then the "computer" exam follows, and its sum with the semester evaluation determines student's success in the course. Optional written exam at the end gives students the opportunity to get higher grades.

Learning outcomes

After finishing the course the student will be able to: understand the logical structure of mathematical statements and mathematical proofs, deal with and explain basic structures of discrete mathematics, precisely formulate their claims, algorithms, and relevant proofs.

Syllabus

The course focuses on understanding basic mathematical tools:

Basic formalisms - statements, proofs, and propositional logic.

Sets, relations, and functions.

Proof techniques, mathematical induction.

Recursion, structural induction.

Binary relations, closure, transitivity.

Equivalence and partial orders.

Composition of relations and functions.

Basics of graphs, isomorphism, connectivity, trees.

Graph distance, spanning trees. Directed graphs.

Proof techniques for algorithms.

Infinite sets and the halting problem.

Literature

recommended literature

HLINĚNÝ, Petr. Úvod do informatiky. *Elportál*. Brno: Masarykova univerzita, 2010. ISSN 1802-128X. URL <http://is.muni.cz/elportal/?id=877387>

MATOUŠEK, Jiří and Jaroslav NEŠETŘIL. *Kapitoly z diskrétní matematiky*. 3., upr. a dopl. vyd. V Praze: Karolinum, 2007. 423 s. ISBN 9788024614113.

FI:IB113 Introduction to Programming and Algorithms

4 credits, type of completion zk (examination), course guarantor doc. Mgr. Radek Pelánek, Ph.D.

Teacher(s)

doc. Mgr. Radek Pelánek, Ph.D. (lecturer)
RNDr. Jaromír Plhák, Ph.D. (seminar tutor)
Mgr. Křištof Anetta (seminar tutor)
Bc. Veronika Burgerová (seminar tutor)

RNDr. Mgr. Jana Dražanová, Ph.D. (seminar tutor)
Bc. Šimon Fouček (seminar tutor)
Mgr. Ivana Krumlová (seminar tutor)
Bc. Dalibor Pantlík (seminar tutor)
RNDr. Lukáš Ručka (seminar tutor)

Course objectives

The course is an introduction to programming and algorithmic style of thinking. At the end of the course students should be able to: understand and apply basic constructs of programming languages (e.g., conditions, loops, functions, basic data types) and know several basic algorithms.

Teaching methods

lectures, programming seminars, homeworks (programming)

Assessment methods

Assesment consists of 3 parts: homeworks, mid-term programming test, final written test with multiple choice questions.

Learning outcomes

After finishing this course, a student should be able to:

- use basic tools of structured imperative programming languages (variables, conditions, loops, functions, record data types);
- write and debug a simple Python program and adhere to recommended principles of programming style;
- use basic data types and structures (strings, lists, dictionaries);
- explain several classical algorithms.

Syllabus

Basic constructions of imperative programming languages: conditions, loops, data types, functions, input, output.

Number types, randomness, algorithms with numbers.

Data types, lists, dictionaries, objects.

Basic algorithms: prime numbers, sorting, searching. Complexity of algorithms (basics).

Turtle graphics, bitmap graphics, regular expressions, text processing.

Literature**recommended literature**

PELÁNEK, Radek. *Programátorská cvičebnice: algoritmy v příkladech*. Brno: Computer Press, 2012. 175 pp. ISBN 978-80-251-3751-2.

GUZDIAL, Mark and Barbara ERICSON. *Introduction to computing & programming in Python : a multimedia approach*. 2nd ed. Upper Saddle River [N.J.]: Prentice Hall, 2010. xxiii, 401. ISBN 9780136060239.

ZELLE, John M. *Python programming : an introduction to computer science*. Wilsonville: Franklin, Beedle & Associates, 2004. xiv, 514. ISBN 1887902996.

FI:PB007 Software Engineering I

3 credits, type of completion zk (examination), course guarantor doc. Ing. RNDr. Barbora Bührenová, Ph.D.

Teacher(s)

doc. Ing. RNDr. Barbora Bührenová, Ph.D. (lecturer)
Bc. Adéla Bierská (seminar tutor)
RNDr. Lukáš Daubner (seminar tutor)
Marek Dlouhý (seminar tutor)
Bc. Juraj Fiala (seminar tutor)
Mgr. Dominik Hanák (seminar tutor)
Mgr. Matěj Karolyi (seminar tutor)
Tereza Kinská (seminar tutor)
Bc. Michael Koudela (seminar tutor)
Oliver Leško (seminar tutor)
Mgr. Marián Macík (seminar tutor)
Bc. Marek Macho (seminar tutor)
Mgr. Patrik Majerčík (seminar tutor)
Mgr. Xuan Linh Phamová (seminar tutor)
Jan Poštulka (seminar tutor)
Matej Tarča (seminar tutor)

Course objectives

The aim of the course is to introduce the students to the lifecycle of the analysis, design, development and operation of complex software systems, respecting various aspects of systems quality and sustainability.

Teaching methods

Lectures, seminars, team projects (2-3 member teams).

Assessment methods

Team UML project (required to be completed before the exam), weekly tests (10 tests, 20 points) and final written exam consisting of a test (7 questions, 35 points) and UML model (35 points). To pass the course, one needs to have 50+ points from the sum of all points (bonus points do not count towards this limit) and 15+ points from the modelling part of the exam.

Learning outcomes

At the end of the course students should:

- know the basic steps and tasks of the IS development process;
- have detailed understanding of the techniques of requirements specification, system analysis and design, testing and maintenance;
- know the characteristics of object-oriented approach to system analysis and design;
- be able to model a medium-size IS in UML.

Syllabus

- Software development, UML Use Case diagram.
- Requirements specification, UML Activity diagram.
- System analysis and design, structured vs. object-oriented A&D.
- Object oriented analysis, UML Class diagram, Object diagram and State diagram.
- Data modelling and management, ERD.
- High-level design, UML Class diagram in design.
- Low-level design and implementation, UML Interaction diagrams.
- Architecture design, UML Package, Component and Deployment diagram.
- Testing, verification and validation.
- Operation, maintenance and system evolution.
- Software development management.
- Advanced software engineering techniques.

Literature

SOMMERVILLE, Ian. *Software engineering*. 6th ed. Harlow: Addison-Wesley Publishing Company, 2001. xx, 693. ISBN 020139815X.

ARLOW, Jim and Ila NEUSTADT. *UML 2.0 and the unified process : practical object-oriented analysis and design*. 2nd ed. Boston: Addison-Wesley, 2005. xxiii, 592. ISBN 9780321321275.

FI:PB150 Computer-Systems Architectures

2 credits, type of completion k (colloquium), course guarantor doc. Ing. Michal Brandejs, CSc.

Teacher(s)

doc. Ing. Michal Brandejs, CSc. (lecturer)

Course objectives

At the end of the course student should be able to understand and explain a general technical principles about computer systems operation.

Teaching methods

The course teaching includes lectures and continuous practice by means of IS MU e-learning tests.

Assessment methods

The final examination is a written test with answers A-E.

Learning outcomes

At the end of this course the student will be able to understand basic principles of digital computers; understand the design of numerical systems used in computer technology and convert numbers between systems; will understand the principles of storing information, coding and storing texts. The student will understand the principles of the elementary processor and its programming at the lowest level.

Syllabus

- Terms, history, computer generations, categories.
- Numeral systems, differences between systems, integer, arithmetics.
- Codes, internal, external, ECC.
- Electronic circuits, memories: parameters, architecture.
- Processor, programming, microprogramming.
- Architectures: RISC/CISC, cache memories.

Literature

BRANDEJS, Michal. *Výpočetní systémy (Computer Systems)*. 2008. http://www.fi.muni.cz/usr/brandejs/AP/brandejs_vypocetni_systemy_print.pdf

FI:PB152 Operating Systems

2 credits, type of completion z (credit), course guarantor RNDr. Petr Ročkai, Ph.D.

Teacher(s)

RNDr. Petr Ročkai, Ph.D. (lecturer)

Course objectives

The subject gives a high-level overview of operating systems and their architectures and key abstractions. Students will learn about the basic components that make up an operating system and how they fit together. Students should also gain a basic understanding of design considerations and internal working of the individual components. Finally, the subject will cover services that the OS provides to user-level programs and to users directly.

Teaching methods

lectures

Assessment methods

written credit test; primarily evaluated within PB152cv or PB152zk

Learning outcomes

By the end of the course, the student should be able to:

- explain key abstractions provided by operating systems
- name and describe what makes up an operating system
- explain how the individual components work
- explain basics of resource virtualization: memory, cpu, etc.
- explain principles and problems of concurrency

Syllabus

Part 1: Virtualization 1. Memory Virtualization & Processes
2. CPU Virtualization & Threads
3. Storage Virtualization & File Systems
4. Peripheral Virtualization

Part 2: Concurrency
5. Modeling Concurrency
6. Taming Concurrency
7. Communication
8. Isolation

Part 3: Practicalities
9. OS API, POSIX
10. Files and Networks
11. Inside a Kernel
12. Machine Virtualization

Literature

Žádné informace.

FI:PB161 C++ Programming

3 credits, type of completion zk (examination), course guarantor RNDr. Nikola Beneš, Ph.D.

Teacher(s)

RNDr. Nikola Beneš, Ph.D. (lecturer)
RNDr. Petr Ročkai, Ph.D. (lecturer)
Bc. František Bráblík (seminar tutor)
Bc. Matej Focko (seminar tutor)
Bc. Jakub Šárník (seminar tutor)
Vladimír Uhlík (seminar tutor)

Course objectives

The goals of the course are to make the students familiar with the basics of the C++ programming language as defined by ISO C++20. The course focuses on the languages' semantics, user-defined data types (classes), basic work with the standard library.

Teaching methods

Teaching consists from theoretical lectures combined with the practical exercises and programming homework selected to practice topics from lectures.

Assessment methods

Homework assignments during the semester, three midterm programming tests, a programming exam.

Learning outcomes

After finishing this course, a student should be able to:

- write simple C++ programs utilizing the tools of modern C++ as defined by ISO C++20;
- use the standard C++ library on a basic level;
- create user-defined data types (classes) in C++;
- understand the value semantics of C++ and explain the difference between this semantics and other popular languages' semantics;
- understand the principles behind resource management (incl. memory management) in modern C++;
- understand how the principles of object-oriented programming are realised in C++;
- use exceptions in an efficient and reasonable way;
- follow best practice guidelines for C++ programming.

Syllabus

Introduction to the syntax and semantics of C++, value semantics, references, const.
Compound values and types, records (struct), basic compound types in the standard library.
Extending types with methods and operators, overloading.
The lifecycle of a value, ownership, constructors, destructors.

Raw pointers, smart pointers, ownership via pointers.
Inheritance, late binding, OOP polymorphism, virtual destructors.
Exception handling, the RAII principle, resource management.
Closures (“lambda functions”).
Sum types in the standard library.
Algorithms, both classic and new (the “ranges” part of the library).
String manipulation.
Formatting, input/output.

Literature

STROUSTRUP, Bjarne. *The C++ programming language*. 3rd ed. Reading: Addison-Wesley, 1997. x, 910 s. ISBN 0-201-88954-4.

VIRIUS, Miroslav. *Programování v C++*. 1. vyd. Praha: ČVUT, 1998. 364 s. ISBN 8001018741.

VIRIUS, Miroslav. *Pasti a propasti jazyka C++ : podrobný průvodce pokročilého uživatele*. 1. vyd. Praha: Grada, 1997. 251 s. ISBN 8071696072.

VIRIUS, Miroslav. *Od C k C++*. 1. vyd. České Budějovice: KOPP, 2000. 227 s. ISBN 80-7232-110-2.

LOUIS, Dirk, Petr MEJZLÍK and Miroslav VIRIUS. *Jazyky C a C++ podle normy ANSI/ISO: kompletní kapsení průvodce*. 1. vyd. Praha: Grada Publishing, 1999. 644 s. ISBN 80-7169-631-5.

MEYERS, Scott. *Effective C++ :50 specific ways to improve your programs and designs*. 2nd ed. Reading: Addison-Wesley, 1998. xx, 256 s. ISBN 0-201-92488-9.

FI:PB162 Java

3 credits, type of completion zk (examination), course guarantor prof. RNDr. Tomáš Pitner, Ph.D.

Teacher(s)

prof. RNDr. Tomáš Pitner, Ph.D. (lecturer)
RNDr. Radek Ošlejšek, Ph.D. (lecturer)
Mgr. Luděk Bártek, Ph.D. (seminar tutor)
Mgr. Jakub Čecháček (seminar tutor)
Marek Dlouhý (seminar tutor)
RNDr. Karolína Dočkalová Burská (seminar tutor)
Mgr. Bc. Michaela Doležalová (seminar tutor)
Vít Falta (seminar tutor)
Mgr. Lukáš Gryga (seminar tutor)
Bc. Tomáš Janoušek (seminar tutor)
Jakub Judiny (seminar tutor)
Mgr. Hai Yen Le (seminar tutor)
Mgr. Ľuboslav Pivarč (seminar tutor)
RNDr. Jaromír Plhák, Ph.D. (seminar tutor)
Bc. Alžbeta Stropková (seminar tutor)
Jakub Suchánek (seminar tutor)
Kryštof Suchánek (seminar tutor)
RNDr. Vladimír Ulman, Ph.D. (seminar tutor)
Stanislav Zeman (seminar tutor)
RNDr. Aleš Zlámal (seminar tutor)

Course objectives

During this course, students:

gain the basic knowledge of object oriented programming in Java;
become familiar with the basic Java and OO terminology, as well as necessary language syntax and semantics rules;
be able to analyze, design and implement simple software solutions with the appropriate tools.

Teaching methods

Lectures with many examples, project-oriented lab sessions, homeworks.

Assessment methods

In the course of the semester, the students will work on project, gaining points. The algorithmic optimality together with coding style and documentation will be taken into evaluation. Another points can be obtained on practical lessons in the form of short online tests. Another points can be obtained from in-term test, as well as from the final exam. Both in-term tests and final exam has the form of practical programming, final exam is more complex. 70 out of the total 100 points is required to complete the course successfully.

Learning outcomes

At the end of the course students should be able to:
explain and use principles of object paradigm;
use basic principles of object-oriented design for coding;
create programs on Java SE platform;
use development tools efficiently, e.g. IDE, unit tests, git, etc.;

Syllabus

Introduction to Java - principles, history. Java development lifecycle, basic development tools.
 Basic concepts and terminology of object-oriented programming - class, instance (object), variable, method.
 Encapsulation.
 Cooperation and communication among objects.
 Interfaces, specification, implementation.
 Basic programmer's conventions - coding style, naming, documentary comment, API documentation.
 Unit testing with junit.
 Inheritance, polymorphism. Class hierarchy. Architecture of Java programs - methods, classes, packages.
 Abstract classes. Access modifiers.
 Basic program constructs. Primitive datatypes, object types and arrays.
 Exceptions. Built-in exceptions, design of custom exceptions.
 Java containers.
 Java I/O.
 Basic design patterns.

Literature

PITNER, Tomáš. *Java - začínáme programovat : podrobný průvodce začínajícího uživatele*. Praha: Grada, 2002. 222 s. ISBN 8024702959.

ECKEL, Bruce. *Myslíme v jazyku Java : knihovna programátora*. Praha: Grada, 2001. 431 s. ISBN 8024790106.

Učebnice jazyka JAVA. Edited by Pavel Herout. 1. vyd. České Budějovice: KOPP, 2001. 349 s. ISBN 80-7232-115-3.

ECKEL, Bruce. *Myslíme v jazyku Java : knihovna zkušeného programátora*. Praha: Grada, 2000. 470 s. ISBN 8024700271.

FI:PB168 Introduction to DB and IS

3 credits, type of completion zk (examination), course guarantor prof. Ing. Pavel Zezula, CSc.

Teacher(s)

doc. RNDr. Vlastislav Dohnal, Ph.D. (lecturer), prof. Ing. Pavel Zezula, CSc. (deputy)
 RNDr. Jaroslav Ráček, Ph.D. (lecturer)

Course objectives

The aim of the course is to introduce principles of information and database systems to the students. In detail, issues of creating information systems that use database systems will be tackled. Especially, we focus on the topics of software engineering, database design and data modeling, querying and other functionality including analytical tools. The aim of one-hour seminars is to exercise selected phenomena in practice. The students will get an idea about the overall problem of design and development of information systems and its individual stages. The students will learn principles of database systems from the theoretical and practical points of view. The students will be able to use a relational database system, store and query its data.

Teaching methods

Two-hour lectures and two-hour seminars.

Assessment methods

Written exam, developing individual project (data and process models, SQL).

Learning outcomes

Student will be able to:

- Explain basic principles and procedures in designing software;
- Apply these procedures to create a model of smaller information system;
- Explain the principles of relational database management systems;
- Design and implement relational model for data storage in the information system;
- Formulate basic SQL statements (data updates and querying in particular);
- Be familiar with the issues of analysis and design of data-oriented information systems.

Syllabus

Introduction to information systems. What is an information system, what is its purpose, what is its task and how it is useful. The common structure and components of an information systems, examples. Modern information systems.
 Introduction to database systems. What is a database management system, what is its task and use, examples. Data abstraction, models, examples.
 Architecture of database systems. Design of database, querying. Query languages. Architecture of database. Users of database.
 Entity-relationship model. Attributes, entity sets. Relationships, cardinality. Definition of key, primary key.
 Relational model. Relation, attributes, relationships. Transition to/from entity-relationship model. Referential integrity.
 Database design. Functional dependencies. Normal forms. Decomposition.

SQL query language. Introduction, basic statements. Select, joins, aggregation functions. Database updates and deletions. Data definition, views.
 Query processing. Basic principles, examples. Indexing. Introduction to query optimization. Transactions. Properties of transaction processing.
 Analytical tools. OLAP — Online Analytical Processing. Data mining. Applications of databases.
 Specifics of database systems. Technology of accessing databases. Geographical information systems. Multi-dimensional databases. Temporal databases.
 Design and development of information systems. Life-cycle of information system. Analysis, design of systems. Structured analysis. Data Flow Diagram, mini-specification.
 Use case diagram. Sequence diagram. Class diagram.
 Principles of structured analysis based on YMSA and SSADM. Functional decomposition. Balancing functional and data models.

Literature

recommended literature

SILBERSCHATZ, Abraham, Henry F. KORTH and S. SUDARSHAN. *Database system concepts*. 5th ed. Boston: McGraw-Hill, 2006. xxvi, 1142. ISBN 0072958863.

RÁČEK, Jaroslav. *Strukturovaná analýza systémů (Structured system analysis)*. Brno: Masarykova univerzita, 2006. 104 pp. FI. ISBN 80-210-4190-0.

KRÁL, Jaroslav. *Informační systémy :specifikace, realizace, provoz*. 1. vyd. Veletiny: Science, 1998. 358 s. ISBN 80-86083-00-4.

FI:PV004 UNIX

2 credits, type of completion zk (examination), course guarantor doc. Ing. Michal Brandejs, CSc.

Teacher(s)

doc. Ing. Michal Brandejs, CSc. (lecturer)

Course objectives

The students of this course will be introduced to the general principles of the UNIX operation system. At the end of this course, students should know the Shell and should be able to program shell scripts.

Teaching methods

The course contains facultative lectures and continuous e-learning testing in IS MU. The emphasis is laid on individual independent and continuous computer work during the term.

Assessment methods

The student is required to meet three milestones. Ignoring the milestone leads to the evaluation of X. The exam will take place by a separate solution of the task and the content of the solution will be evaluated with the mark A-E.

Learning outcomes

At the end of this course, the student will understand the principles of the UNIX operating system, will be able to control the unix shell line interface on a common user level, program simple shell scripts, and manage manipulation of text files, including understanding the use of regular expressions.

Syllabus

UNIX history, main features, system access.

System structure: file systems, processes.

Access rights.

User interface: shell and its programming.

Text processing: regular expressions, editors, text processing commands.

Setting of the user environment.

Multi-user communication, status of the system.

Literature

BRANDEJS, Michal. *UNIX*. 2008. http://www.fi.muni.cz/usr/brandejs/PV004/brandejs_unix_print.pdf

BRANDEJS, Michal. *Linux : praktický průvodce*. Brno: Konvoj, 2003. 312 pp. ISBN 80-7302-050-5.

FI:PV165 Process Management

2 credits, type of completion zk (examination), course guarantor RNDr. Jaroslav Ráček, Ph.D.

Teacher(s)

RNDr. Jaroslav Ráček, Ph.D. (lecturer)

Mgr. Ján Hrivňák (seminar tutor)

RNDr. Josef Spurný, Ph.D. (seminar tutor)

Mgr. Dalibor Toth (seminar tutor)

Course objectives

Main objectives can be summarized as follows:

to understand the process management and workflow systems;

to learn to plan, execute and monitor business processes;

to learn to estimate, control and optimize the process time, cost and quality.

Teaching methods

Lectures, seminars, group projects.

Assessment methods

Final written exam.

Learning outcomes

Students will understand the basic concepts and principles of business process management. At the end of the course, the student will be able to design a simple process structure that he / she can develop and optimize in terms of time and cost.

Syllabus

History, Process Management, Business Processes.
 Workflow, Workflow System, Workflow Reference Model.
 Workflow Enactment Service (WES).
 Workflow Application Programming Interface & Interchange (WAPI).
 Process Definition Tools (PDT), Workflow Process Model.
 User and Application Interfaces and Communication.
 Communication with other Workflow Systems.
 Administration and Monitoring.
 Process Efficiency Determination.
 Process Simulation.
 Process Optimisation, CPI, BPR.
 BPMN (Business Process Modelling Notation).
 BPEL (Business Process Execution Language).
 Using UML for Process Modeling.
 CASE Tools of Process Modeling.
 Commercial Workflow Products.
 Workflow Standards.
 Workflow Application Development, Project Management.

Literature

FIALA, Josef and Jan MINISTR. *Průvodce analýzou a modelováním procesů*. Ostrava: Vysoká škola báňská - Technická univerzita, 2003. 109 s. ISBN 8024805006.

Workflow handbook 2004 : published in association with the workflow management coalition. Edited by Layna Fischer. Lighthouse Point: Future strategies, 2004. 381 s. ISBN 0970350961.

RÁČEK, Jaroslav, Jan MINISTR and Josef FIALA. Monitoring workflow systémů veřejné správy (Monitoring of administrative workflow systems). In *Firma a konkurenční prostředí 2005*. Brno: KONVOJ, 2005. p. 65-75. ISBN 80-7302-097-1.

RÁČEK, Jaroslav. *Workflow správních procesů v oblasti životního prostředí*. Brno: Masarykova univerzita v Brně, Fakulta informatiky, 2002. 152 s.

ESF:BDX_AKAP Academic writing

2 credits, type of completion z (credit), course guarantor prof. Ing. Martin Kvizda, Ph.D.

Teacher(s)

prof. Ing. Martin Kvizda, Ph.D. (lecturer)
 PhDr. Jaroslav Nekuda (lecturer)
 PhDr. Jaroslav Nekuda (seminar tutor)
 Mgr. Jiří Poláček, Ph.D. (seminar tutor)

Course objectives

Students will gain an overview of the complete technological line of academic writing, starting from topic selection, search and evaluation of suitable information sources to gaining familiarity with rules and procedures of writing a specialist text. A great emphasis will be put on ethical rules of research and scientific work. A brief overview of chosen methods and procedures used in scientific and research work in social and economic sciences will be given.

Teaching methods

The entire course is Internet-based and therefore there is no classroom instruction. It is made up of self-contained, topic-based lessons which will gradually be made available in the Information System. All the study materials will be made available in the e-form in the IS.

Each chapter is also accompanied by an optional module labelled "For the curious" containing additional study materials or interesting facts related to the discussed subject matter.

Assessment methods

Credit will be awarded after the following criteria have been met:

1. Access and login to each lesson in the Information System within the deadline.
2. Completion of the assigned tasks accompanying each lesson within the deadline.
3. Submission of individual written work and participation in the peer-review system.
4. Scoring required number of points of all assigned tasks.

Learning outcomes

Student will gain an understanding on the following topics: - Comprehension of academic work methodology within a field of social sciences;

- Finding and analysing relevant literature for study along with other supportive information resources;
- Formulating a topic and a research question as a starting point of the Bachelor's or Master's Thesis;
- Getting familiar with the most frequently used economic research methods;
- Referencing used literature sources in accordance with international citation norms;
- Perfecting writing skills in typography, use of graphical symbols and grammar context.

Syllabus

1. Information management

system of University libraries (Masaryk University and Faculty of Economics and Administration, Masaryk University)

the Aleph library system, services New books and Magazine contents

electronic information, source classification, main groups of sources, search techniques

main groups introduction: e-books, magazine databases, specialized databases

citation indexes and scientometry

2. Introduction to academic writing

typology of academic work

topic selection, role of an academic paper supervisor

structure of an academic paper

academic writing (preparation, time management, psychohygiene, academic language, aspect of stylistics, text revision, auxiliary strategies)

writing of the most frequently used document types in English and German (report, summary, CV, cover letter) treated from the stylistic, grammatical and lexical perspective

selected methods and techniques of scientific and research work, meaningfulness of values in social science research, paradigms

presentation and defence

3. Ethics of scientific and research work and technical side of academic writing

academic writing ethics, plagiarism and its detection

literature citations, bibliography

technical side of writing (typography, rules on text arrangement and layout, rules on typesetting and visual data representation)

Literature**recommended literature**

NEKUDA, Jaroslav, Lucie KUŽELÍKOVÁ and Jiří POLÁČEK. *Sociálně-ekonomické informace a práce s nimi*. 1. vyd. Brno: Masarykova univerzita, 2008. 88 pp. ISBN 978-80-210-4577-4.

ZBÍRAL, Robert. *Příručka psaní seminárních a jiných vysokoškolských odborných prací*. Praha: Linde, 2009. 159 s. ISBN 9788072017799.

ECO, Umberto and Ivan SEIDL. *Jak napsat diplomovou práci*. Olomouc: Votobia, 1997. 271 s. ISBN 80-7198-173-7.

ESF:BPE_MAE1 Macroeconomics 1

8 credits, type of completion zk (examination), course guarantor doc. Ing. Libor Žídek, Ph.D.

Teacher(s)

doc. Ing. Libor Žídek, Ph.D. (lecturer)

Mgr. Hana Fitzová, Ph.D. (seminar tutor)

Ing. Petra Chovancová, Ph.D. (seminar tutor)

Ing. Jan Jonáš, Ph.D. (seminar tutor)

Ing. Martin Kutlak (seminar tutor)

Ing. Jakub Moučka (seminar tutor)

Ing. Tomáš Paleta, Ph.D. (seminar tutor)

Mgr. Ing. Ondřej Špetík, Ph.D. (seminar tutor)

Ing. Petr Zimčík, Ph.D. (seminar tutor)

Course objectives

At the end of the course students should be able to exercise an orientation in the basic knowledge of functioning of the economy. They acquire dispositions for better understanding of the contemporary world. They will gain insight into the nature of the basic economic concepts.

Teaching methods

The course has a form of a lecture and a seminar. The seminars are compulsory and the students are evaluated according their activity. Students are tested on each of the seminar.

Assessment methods

Credit requirements: pass progress tests for more than 60% and active participation in seminars. The course is concluded by a written exam. The test is to be taken during the exam period. Any copying, recording or leaking tests, use of unauthorized tools, aids and communication devices, or other disruptions of objectivity of exams

(credit tests) will be considered non-compliance with the conditions for course completion as well as a severe violation of the study rules. Consequently, the teacher will finish the exam (credit test) by awarding grade "F" in the Information System, and the Dean will initiate disciplinary proceedings that may result in study termination.

Learning outcomes

After successful completion of the course, student will be able to:

- understand basic macroeconomic phenomena and concepts,
- apply knowledge from macroeconomics to events in the economy,
- discuss and present his or her own opinion

Syllabus

1. measuring of GDP and inflation (chapters 22 and 23)
2. economic growth chapter 24)
3. labour market and unemployment (chapters 26 and 20)
4. financial system and public finance (chapters 25 and 12)
5. banks and monetary system (chapter 27)
6. quantitative theory of money and inflation (chapter 28)
7. international trade (chapter 9)
8. open economy - basic concepts (chapter 29)
9. open economy - a model (chapter 30)
10. AD and AS (chapter 31)
11. impact of monetary and fiscal policies on AD (chapter 32)
12. relationship between inflation and unemployment (chapter 33)

Literature

required literature

MANKIWI, N. Gregory. *Zásady ekonomie*. Praha: Grada, 2000. 763 s. ISBN 80-7169-891-1.

recommended literature

HOLMAN, Robert. *Ekonomie*. 3. aktualiz. vyd. Praha: C.H. Beck, 2002. xxii, 714. ISBN 8071796816.

SAMUELSON, Paul A. and William D. NORDHAUS. *Economics [Samuelson, 1992]*. 14th ed. New York: McGraw-Hill, 1992. xlii, 784. ISBN 0-07-054879-X.

ESF:BPF_FIU1 Financial Accounting 1

8 credits, type of completion zk (examination), course guarantor Ing. Eva Hýblová, Ph.D.

Teacher(s)

- Ing. Eva Hýblová, Ph.D. (lecturer)
- Ing. Bc. Jana Hvozdenká, Ph.D. (seminar tutor)
- Ing. Eva Hýblová, Ph.D. (seminar tutor)
- Ing. Zuzana Křížová, Ph.D. (seminar tutor)
- Ing. Svatopluk Nečas, Ph.D. (seminar tutor)
- Ing. Josef Nešleha (seminar tutor)
- Ing. Gabriela Oškrdalová, Ph.D. (seminar tutor)
- Ing. Petr Valouch, Ph.D. (seminar tutor)

Course objectives

Within this course the student will acquire: philosophy of accounting, its basic rules, assumptions and generally accepted principles; the application of basic methods of accounting on economic events in commercial corporations of the Czech Republic; analysis of simple economic tasks, the ability to compile the accounting algorithm, and to assess the impact of the accounting solution on the net income.

Teaching methods

Lecture of the theory, on the seminars accounting of basic economic operations typical for businesses using relating chart of accounts. Preparing of simplified financial statements.

Assessment methods

Continuous assessment within the course, fulfilment concurrently:

1. compulsory attendance of seminars, only three absences are tolerated;
2. public presence of an example assigned by tutor;
3. passing of two written control tests evaluated maximally by 27 points per test. Minimal required score: 17 points per each test. If this condition is not fulfilled it is possible to compensate it only by passing of a correction test evaluated by 27 points as maximum and 17 points as required minimum.

Written exam test lasts 60 minutes and contents combination of multiple choice, shorter theoretical questions and practical examples. As maximum student can get 30 points, for successfully passing the exam minimum 19 points is required.

Any copying, recording or leaking tests, use of unauthorized tools, aids and communication devices, or other disruptions of objectivity of exams (credit tests) will be considered non-compliance with the conditions for course completion as well as a severe violation of the study rules. Consequently, the teacher will finish the exam (credit test) by awarding grade "F" in the Information System, and the Dean will initiate disciplinary proceedings that may result in study termination.

Learning outcomes

Finishing this course the student will be able to:

- describe and explain basic principles, assumptions and principles of financial accounting;
- use basic methods of accounting to depict economic processes in corporations of the Czech Republic;
- analyze simple economic transactions, compile accounting procedures and assess the impact of accounting solution on the net income.

Syllabus

1. The core and functions of accounting, characteristic features and legal aspects of accounting, general accounting principles. Balance sheet in accounting, its function, system and utilization. 2. Assets and liabilities, their structure and definition, assets and liabilities classes, their mutual relations. Balance sheet system, impact of economic transactions on balance sheet. 3. Costs and revenues of accounting unit as part of profit and loss statement. 4. Methodical parts of accounting, account and account system, chart of accounts and outline of accounts, accounting documents, account books, accounting control system. 5. Liabilities and assets valuation in accounting unit, valuation principles, valuation base, valuation of assets of same class, financial assets valuation. 6. Taxes in accounting, theoretical approaches to long-term assets depreciation, methods of creation and clearance of reserves and adjusting items. 7. Methods of long-term assets depreciation (both accounting and tax perspective). 8. Reserves and adjusting items in accounting (prudence concept). 9. Financial accounts, their structure and importance, cash, cash in transit, bank accounts. 10. Inventory, its definition and inventory valuation method. Inventory function and basic accounting operations, two ways of accounting — A and B. Uniqueness of internally produced inventory accounting. 11. Classification of long-term assets, ways of their acquisition. Basic procedures of accounting of assets acquisition and depiction during their lifetime. 12. Clearing relations. Procedures of accounting of receivables and liabilities of accounting unit (from business relations, to employees and to shareholders).

Literature**required literature**

VODÁKOVÁ, Jana, Eva HÝBLOVÁ, Zuzana KRÍŽOVÁ, Petr VALOUCH and Filip HAMPL. *Finanční účetnictví 1. Sběrka příkladů (Financial accounting 1. Collection of examples)*. 1st ed. Brno: Masarykova univerzita, 2021. 165 pp. ISBN 978-80-210-9915-9.

SEDLÁČEK, Jaroslav. *Základy finančního účetnictví*. Plzeň: Vydavatelství a nakladatelství Aleš Čeněk, 2016. 191 stran. ISBN 9788073806125.

recommended literature

RYNEŠ, Petr. *Podvojně účetnictví a účetní závěrka : průvodce podvojným účetnictvím k 1.1.2022*. 22. aktualizované vydání. Olomouc: Anag, 2022. 1180 stran. ISBN 9788075543486.

STEJSKALOVÁ, Irena. *Finanční účetnictví pro manažery : s netradičně pojatými případovými studii*. 3. aktualizované vydání. Praha: Wolters Kluwer, 2021. 192 stran. ISBN 9788075527738.

RANDÁKOVÁ, Monika. *Finanční účetnictví v České republice*. Vyd. 1. V Praze: Vysoká škola ekonomická, 2015. 227 stran. ISBN 9788024520766.

ESF:BPH_MAU Managerial Accounting

8 credits, type of completion zk (examination), course guarantor Ing. Ladislav Šiška, Ph.D.

Teacher(s)

- Ing. Ladislav Šiška, Ph.D. (lecturer)
- Ing. Ladislav Šiška, Ph.D. (seminar tutor)
- Ing. Eva Švandová, Ph.D. (seminar tutor)

Course objectives

The aim of the course is to present knowledge on management accounting - budgeting, standard costing and cost accounting.

Teaching methods

lectures, computation of numerical examples, individual consultation

Assessment methods

Examination requirements: (1) calculations and correct results of tests(33%) (2) written exam (67%) Minimal score 60 per cent. Any copying, recording or leaking tests, use of unauthorized tools, aids and communication devices, or other disruptions of objectivity of exams (credit tests) will be considered non-compliance with the conditions for course completion as well as a severe violation of the study rules. Consequently, the teacher will finish the exam (credit test) by awarding grade "F" in the Information System, and the Dean will initiate disciplinary proceedings that may result in study termination.

Learning outcomes

At the end of this course, students should be able to understand the role of management accounting in company's management; allocate costs to products, services or activities; prepare budgets; record typical transactions in cost accounting; design a simple performance measurement system; interpret data gathered in corporate measurement systems; outline current trends in management accounting.

Syllabus

(1) Financial management and accounting information for its realization (evolution of Management Accounting

as a special branch of accounting, its objectives, differences against financial accounting). (2) Cost classifications (cost elements such as direct materials, direct labour and overheads), Cost behaviour (variable, fixed, semi-fixed, semi-variable costs, identification of fixed and variable elements), Cost calculations. (3) Variable and full costing (methods for inventory evaluation, product v. period costs, budgeted overhead rates, over- or underrecovery of fixed costs). (4) Budgeting and its function in company's management (master budget and its breakdown into operational budgets, overhead budgets; preparation, approval, and updates of budgets, rolling budgeting, control by means of flexed budgets). (5) Cost accounting (basic model of cost accounts in a standalone manufacturing company, actual v. predetermined cost application for internal purposes). (6) "Activity based-" approaches (ABC, ABB, ABM — principles, function, and consequences in operational and strategic horizons). (7) Time Driven ABC (time equations, unused capacity estimates), Customer profitability analysis and customer life-time value (application of ABC in Customer Relation Management). (8) Standard costing method (principles, standard setting, variance analysis under variable and full costing system, interpretation of variances, limits of standard costing). (9) Performance management and responsibility accounting (overall performance of the company and departmental contributions; cost, revenue, profit, investments centers; links to the standard cost variance analysis; controllable and non-controllable factors). (10) Current trends in performance measurement and management (leading and lagging indicators, non-financials, Strategy maps, Balanced Scorecard). (11) Beyond budgeting (criticism of traditional budgeting, change in management, relative performance, forecasting, flexible resource allocations; case studies in successful application of BB).

Literature

required literature

DRURY, Colin. *Management and cost accounting*. 10th edition. Hampshire: Cengage, 2018. xvii, 842. ISBN 9781473748873.

FRANKLIN, Mitchell, Patty GRAYBEAL and Dixon COOPER. *Principles of Accounting, Volume 2: Managerial Accounting*. Houston (Texas): Rice University, OpenStax, 2019. ISBN 978-1-947172-60-9. <https://openstax.org/details/books/principles-managerial-accounting>

recommended literature

ATKINSON, Anthony A. *Management accounting : information for decision-making and strategy execution*. 6th ed. Boston: Pearson, 2012. 550 s. ISBN 9780273769989.

ESF:BPH_USPI Introduction to Management Information Systems

1 credit, type of completion z (credit), course guarantor doc. Ing. Radoslav Škapa, Ph.D.

Teacher(s)

Ing. Mgr. Michal Krčál, Ph.D. (seminar tutor)
 Mgr. et Mgr. Tomáš Ondráček, Ph.D. (seminar tutor)
 Ing. Jaromír Skorkovský, CSc. (seminar tutor)
 doc. Ing. Radoslav Škapa, Ph.D. (seminar tutor)

Course objectives

The goal of this course is to:

- explain the way how the teaching at higher education institutions is done (e.g. independent learning, peer teaching, Bloom's taxonomy);
- explain different types of thinking (critical, creative, systematical, scientific, interdisciplinary, prosocial);
- define the discipline of information systems;
- systematize the body of knowledge, which students will acquire during the programme study;
- show possible ways how to apply the knowledge they will acquire.

Teaching methods

Discussion, workshops.

Assessment methods

Assessment of the course will be given upon attendance and written assignment covering the topic of information systems. The written assignment will be the same as for the course BDX_AKAP Academic writing.

Learning outcomes

At the end of this course, student will be able to:

- differentiate between different learning styles and strategies;
- define and understand the merit of information systems discipline;
- write a short academic text about information systems v propojení s (along with the course Academic Writing).

Syllabus

Classes are not every week of this course, instead, they will be only in the first few weeks of the semester. The classess will take a form of seminars, and therefore the attendance is mandatory. During the seminars, following topic will be discussed:

1. Information systems as a discipline and curriculum of the study programme.
2. Learning styles and strategies.
3. Different thinking types and their application.
4. Importance of academic sources and how to work with them.

Literature

required literature

ŠILEROVÁ, Edita and Klára HENNYEYOVÁ. *Informační systémy v podnikové praxi*. Druhé vydání. Praha: Powerprint, 2017. 153 stran. ISBN 9788075680655.

GÁLA, Libor, Jan POUR and Zuzana ŠEDIVÁ. *Podniková informatika : počítačové aplikace v podnikové a mezipodnikové praxi*. 3., aktualizované vydání. Praha: Grada Publishing, 2015. 240 stran. ISBN 9788024754574. <https://www.bookport.cz/kniha/podnikova-informatika-2475>

recommended literature

LAUDON, Kenneth C. and Jane Price LAUDON. *Management information systems : managing the digital firm*. Fifteenth edition, global ed. Harlow, England: Pearson, 2018. 647 stran. ISBN 9781292211756.

GREENGARD, Samuel. *The internet of things*. Cambridge, Massachusetts: MIT Press, 2015. xviii, 210. ISBN 9780262527736.

ESF:BPJ_JI2A Foreign Language I/2 - English

5 credits, type of completion zk (examination), course guarantor Ing. Mgr. Blanka Pojslová, Ph.D.

Teacher(s)

Mgr. Silvie Bilková (seminar tutor)
 Mgr. Jiřina Hrbáčková (seminar tutor)
 Mgr. Markéta Kovaříková (seminar tutor)
 Mgr. Dita Phillips (seminar tutor)
 Ing. Mgr. Blanka Pojslová, Ph.D. (seminar tutor)
 Mgr. Bc. Eva Punčochářová (seminar tutor)
 Mgr. Erika Putnová (seminar tutor)
 Mgr. Petra Stejskalová (seminar tutor)
 Mgr. et Mgr. Lenka Tóthová, Ph.D. (seminar tutor)
 Mgr. Ladislav Václavík, Ph.D. (seminar tutor)

Course objectives

In the second semester the course develops skills covered in the BPJ_JI1A course and provides an opportunity to master further topics and skills typical for a more complex communication, and to apply them to professional activities typical of the business environment, such as:

- interpretation of graphical data,
- communication over telecommunication devices,
- taking minutes and
- writing up messages.

This subject further develops students' general and business vocabulary as well as grammatical structures typical for technical language. The stress is again put not only on the development of communication skills, but also on the ability to use the acquired knowledge actively.

Teaching methods

The course is taught in the form of seminars.

Assessment methods

The course is completed with an exam - both written and oral.

The course requirements are as follows:

- 80% active participation in seminars (systematic and continuous preparation for the seminars together with fulfilling assigned tasks in the course of the semester),
- elaborating an essay written up according to the instructor's guidelines and handed in by a deadline set by an instructor
- 60 % success rate in the final exam test,
- successful completion of the oral part.

Learning outcomes

At the end of this course, students should be able to:

- understand a general economic text of upper-intermediate difficulty level,
- discuss covered economic topics and
- orientate themselves in English economic terminology relating to the covered topics.

Syllabus

Během semestru budou probírána následující témata, vycházející z lekcí 6 až 10 používané učebnice:

1. Unit 6 - Customer relations
2. Unit 6 - Customer relations
3. Unit 7 - Manufacturing
4. Unit 7 - Manufacturing
5. Unit 8 - Human Resources
6. Unit 8 - Human Resources
7. Unit 9 - Management
8. Unit 9 - Management
9. Unit 10 - Project management
10. Unit 10 - Project management
11. Delivering presentations
12. Delivering presentations

Literature**required literature**

ASHFORD, Stephanie and Tom SMITH. *Business proficiency : Wirtschaftsenglisch für Hochschule und Beruf : mit Prüfungsvorbereitung, Video-DVD und Online-Material*. 1. Auflage. Stuttgart: Ernst Klett, 2017. 320 stran. ISBN 9783128000671.

ESF:BPJ_JI2F Foreign Language I/2 - French

5 credits, type of completion zk (examination), course guarantor Mgr. Marie Červenková, Ph.D.

Teacher(s)

Mgr. Marie Červenková, Ph.D. (seminar tutor)
Mgr. Daniela Veškrnová (seminar tutor)

Course objectives

In the second semester the course develops skills covered in the BPJ_JI1F course and provides an opportunity to master further topics and skills typical of a more complex communication, and to apply them to professional activities typical of the business environment, such as:

- interpretation of graphical data,
- communication over telecommunication devices,
- taking minutes and
- writing up messages.

This subject further develops students' general and business vocabulary as well as grammatical structures typical for technical language. The stress is again put not only on the development of communication skills, but also on the ability to use the acquired knowledge actively.

Teaching methods

This course is taught in the form of seminars.

Assessment methods

This course is completed with an exam.

Credit requirements include the following:

- 80% active participation in seminars (systematic continuous preparation and fulfilling assigned tasks),
- 60% success rate in the final credit test,
- elaborating a seminar paper (a summary of economic text, written up according to an instructor's guidelines and handed in by a deadline set by an instructor).

If a student commits a prohibited act, such as using various forbidden tools (e.g. cheatsheets), cribbing, taking out any part of the credit test or any other form of cheating, the teacher is allowed to interrupt the test and to grade the student with F, FF or even FFF, according to the seriousness of the offence. The described procedure applies to all the activities that are included in the final evaluation of the course (seminar work).

Learning outcomes

At the end of this course, students should be able to:

- understand a general economic text of upper-intermediate difficulty level,
- discuss covered economic topics and
- orientate themselves in French economic terminology relating to the covered topics.

Syllabus

Additional Assistant's Responsibilities: Work Schedules, Business Trips Arrangements

Setting Up a Business: Establishment, Legal Forms of Business Up

The Market and Business Performance, Market Factors

The State role

Consumer protection

Marketing, Market Research, Forms of Customer Communication

Doing Business: Points of Sale, Selling Online

Business Correspondence: Standard Letter Layout, Enquiry, Offer

Literature**required literature**

BLOOMFIELD, Anatole and Béatrice TAUZIN. *Affaires a suivre :cours de français professionnel de niveau intermédiaire*. Paris: Hachette, 2001. 192 s. ISBN 2-01-155164-1.

SACHS, Rudolf and Renata POHORSKÁ. *Francouzská obchodní korespondence : Correspondance commerciale (Souběž.)*. 1. vyd. Plzeň: Fraus, 1999. 224 s. ISBN 80-85784-84-X.

recommended literature

PENFORNIS, Jean-Luc. *Affaires.com : [méthode de français des affaires : niveau avancé]*. Paris: Cle International, 2003. 127 s. ISBN 2090331763.

ESF:BPJ_JI2N Foreign Language I/2 - German

5 credits, type of completion zk (examination), course guarantor Mgr. Petra Sojková

Teacher(s)

Bc. Mgr. Petra Chládková (seminar tutor)
Mgr. Petra Sojková (seminar tutor)

Course objectives

In the second semester the course develops skills covered in the BPJ_JI1N course and provides an opportunity to master further topics and skills typical for a more complex communication, and to apply them to professional activities typical of the business environment, such as:

- interpretation of graphical data,
- communication over telecommunication devices,
- taking minutes and
- writing up messages.

This subject further develops students' general and business vocabulary as well as grammatical structures typical for technical language. The stress is again put not only on the development of communication skills, but also on the ability to use the acquired knowledge actively.

Teaching methods

This course is taught in the form of seminars.

Assessment methods

This course is completed with an exam - both written and oral an B2 level.

Credit requirements include the following:

- 80% active participation in seminars (systematic continuous preparation and fulfilling assigned tasks),
- 60% success rate in the final credit test,
- elaborating a seminar paper according to an instructor's guidelines and handed in by a deadline set by an instructor).

Any copying, recording or leaking tests, use of unauthorized tools, aids and communication devices, or other disruptions of objectivity of exams (credit tests) will be considered non-compliance with the conditions for course completion as well as a severe violation of the study rules. Consequently, the teacher will finish the exam (credit test) by awarding grade "F" in the Information System, and the Dean will initiate disciplinary proceedings that may result in study termination."

Learning outcomes

At the end of this course, students should be able to:

- understand a general economic text of upper-intermediate difficulty level,
- discuss covered economic topics and
- orientate themselves in German economic terminology relating to the covered topics.

Syllabus

1. Career, Purchase contract
2. Foreign trade risks, Performing an order
3. Reminder
4. Complaint letter and reply to a complaint letter
5. Business agent, Agency contract, Correspondence with a business agent
6. Applying for a job, Writing a CV
7. Cultural differences, Bank reference
8. Small talk, Personal correspondence

Wirtschaftskommunikation Deutsch, V. Eismann

Chapter 8: Demand (Ex. 2,3), Supply (Ex. 4), Delivery terms (Ex. 5)

Chapter 8: Payment terms and delivery time (Ex. 6,7), Peculiarities of foreign trade (Ex. 8,9,10,11)

Chapter 8: Breach of a purchase contract (Ex. 12), General terms of sale and delivery (Ex. 13), Order processing (Ex. 14,15)

Chapter 9: Company profile (Ex. 1), Demand processing (Ex. 2), Check of ability to deliver (Ex. 3,4)

Chapter 9: Compiling an offer (Ex. 5,6,7), Chapter 10: Offer negotiations (Ex. 4,5), Submitting a new offer (Ex. 7)

Chapter 11: Distribution channels (Ex. 4,5), Outlets in foreign markets (Ex. 10,11)

Literature**required literature**

HÖPPNEROVÁ, Věra, Jarmila MATĚNOVÁ and Zuzana GELNAROVÁ. *Obchodujeme německy*. 5. vyd. Praha: Ekopress, 2013. 278 s. ISBN 9788086929965.

EISMANN, Volker. *Wirtschaftskommunikation Deutsch Neu*. Berlin: Langenscheidt, 2008. 223 s. ISBN 9783468904653.

recommended literature

HUŠKOVÁ, Helena. *Německá čítanka ekonomických textů a cvičeními*. 1. vyd. Brno: Masarykova univerzita, 2008. 73 s. ISBN 9788021045712.

DREYER, Hilke and Richard SCHMITT. *Lehr- und Übungsbuch der deutschen Grammatik*. 1. Aufl. Ismaning: Max Hueber, 2000. 359 s. ISBN 3-19-007255-8.

BÜRGER, Josef. *Wirtschaftswörterbuch Tschechisch-Deutsch*. 1. vyd. Plzeň: Nakladatelství Fraus, 1998. 775 s. ISBN 80-85784-29-7.

BÜRGER, Josef. *Wirtschaftswörterbuch deutsch-tschechisch*. 1. vyd. Plzeň: Fraus, 1997. 823 s. ISBN 80-85784-28-9.

ESF:BPJ_JI2S Foreign Language I/2 - Spanish

5 credits, type of completion zk (examination), course guarantor Mgr. Veronika De Azevedo Camacho, Ph.D.

Teacher(s)

Mgr. Veronika De Azevedo Camacho, Ph.D. (seminar tutor)

Course objectives

In the second semester the course develops skills covered in the BPJ_JI1S course and provides an opportunity to master further topics and skills typical for a more complex communication, and to apply them to professional activities typical of the business environment, such as:

- interpretation of graphical data,
- communication over telecommunication devices,
- reclamations/complaints and
- writing up business plan.

This subject further develops students' general and business vocabulary as well as grammatical structures typical for technical language. The focus is again put not only on the development of communication skills, but also on the ability to use the acquired knowledge actively.

Teaching methods

The course is taught in the form of seminars.

Assessment methods

The course is completed with an exam. Exam requirements include the following:

- 80% active participation in seminars (systematic continuous preparation and fulfilling assigned tasks),
- 60% success rate in the final test, oral examination
- seminar presentation on an economic topic delivered in the course of the semester using the visual aids

Learning outcomes

At the end of this course, students should be able to:

- understand a general economic text of upper-intermediate difficulty level,
- discuss covered economic topics and
- orientate themselves in Spanish economic terminology relating to the covered topics.

Syllabus

Odborná témata: Presentación comercial,
Servicio de atención al cliente (hacer una reclamación),
Incorporación inmediata,
Traslados laborales internacionales (la movilidad de los ejecutivos),
Exportación, El comercio internacional (el comercio exterior de España),
La economía de América Latina, El Tratado de Asunción y el Mercosur,
Los grandes acuerdos internacionales de comercio e integración en el continente americano,
Montar un negocio (el plan de empresa y e una ONG),
El carácter emprendedor, el perfil del emprendedor español,
Cuestiones de finanzas - gasto y administración de dinero, el gasto en los hogares españoles, comparación de los salarios medios en la Unión Europea,
Las monedas de la América Latina, las alternativas al dólar,
Inversiones éticas, el IBEX 35,
Administración del tiempo personal y laboral, la jornada de trabajo en diferentes países, la conciliación laboral y la igualdad, Gramática: la voz pasiva, recursos para debates y negociaciones, expresar opiniones + pres. del subjuntivo, expresar condiciones, la nominalización, el perfecto del subjuntivo, el imperfecto del subjuntivo, usos del subjuntivo con expresiones temporales de futuro, usos del subjuntivo para dar consejos, recursos para elaborar informes, frases de relativo con subjuntivo, conectar con estructuras de relativo, algunos comparativos especiales, estilo indirecto y verbos de transmisión de información, verbos pronominales, ind/subj. con verbos de mandato, prohibición, recomendación e información, expresión de la causa, infinitivo pasado, hipótesis, probabilidad.

Literature

required literature

TANO, MARCELO. *Expertos: Curso avanzado de español orientado al mundo del trabajo. Libro de alumno..* Barcelona: Difusión, 2011. ISBN 978-84-8443-586-0.

recommended literature

MACÍKOVÁ, Olga, Vlasta HLAVIČKOVÁ and Věra ŠPÍGLOVÁ. *Španělsko-český a česko-španělský hospodářský slovník*. 1. vyd. Plzeň: Fraus, 2003. 426 s. ISBN 80-7238-261-6.

not specified

TANO, MARCELO. *Expertos:Curso avanzado de espanol orientado al mundo del trabajo. Cuaderno de ejercicios.* 2010. ISBN 978-84-8443-587-7.

CASTRO, FRANCISCA. *uso de la gramática espanola. Nivel intermedio.* Madrid: Edelsa, 2008. ISBN 978-84-7711-134-4.

CASTRO, Francisca. *USO de la gramática española - avanzado.* 12th ed. Edelsa, 2006. ISBN 84-7711-135-9.

MACÍKOVÁ, Olga and Ludmila MLÝNKOVÁ. *Español comercial.* Vyd. 1. Brno: CP Books, 2005. 342 s. ISBN 8025106527.

BONELL, PABLO, de Prada, Marisa and Schmidt, carlos SENOR, ANA. *Negocio a la vista. Reportajes con actividades para cursos de espanol de los negocios.* Madrid: Edinumen, 2004. ISBN 84-95986-43-4.

ESF:BPJ_JI3A Foreign Language I/3 - English

3 credits, type of completion z (credit), course guarantor Ing. Mgr. Blanka Pojslová, Ph.D.

Teacher(s)

Mgr. Silvie Bilková (seminar tutor)
Mgr. Jiřina Hrbáčková (seminar tutor)
Mgr. Markéta Kovaříková (seminar tutor)
Mgr. Markéta Oplatková Plocková (seminar tutor)
Mgr. Dita Phillips (seminar tutor)
Ing. Mgr. Blanka Pojslová, Ph.D. (seminar tutor)
Mgr. Bc. Eva Punčochářová (seminar tutor)
Mgr. Erika Putnová (seminar tutor)
Mgr. Petra Stejskalová (seminar tutor)
Mgr. Ladislav Václavík, Ph.D. (seminar tutor)

Course objectives

The third semester of the course develops skills covered and competencies gained in the BPJ_JI1A and BPJ_JI2A courses. The topics are extended in cycles, new topics from certain vocationally relevant areas are added and basic skills are further diversified.

Teaching methods

The course is taught in the form of seminars.

Assessment methods

The course is completed with conferring a credit. Credit requirements include the following:

- 80% active participation in seminars (systematic continuous preparation and fulfilling assigned tasks)
- completion of continuous tasks
- 60 % success rate in the final credit test
- a joint presentation on an economic topic delivered in the course of the semester using the visual aids
- writing a joint report following lecturer's guidelines

Learning outcomes

At the end of the course, students should be able to:

- apply gained specialized terminology to role-playing, simulations of negotiations and business meetings;
- express themselves with accuracy as for the style and a degree of formality
- read and understand authentic professional texts at the upper-intermediate and advanced level

Syllabus

Během semestru budou probírána následující témata, vycházející z lekcí 11 až 13 používané učebnice: 1. U11

- Finance and investment
2. U11 Finance and investment
3. Writing a joint report
4. U12 Business to business
5. U12 Business to business
6. Joint presentations
7. Joint Presentations
8. U12 Business to business
9. U13 Economics
10. U13 Economics
11. U13 Economics
12. Credit test

Literature

ASHFORD, Stephanie and Tom SMITH. *Business proficiency : Wirtschaftsenglisch für Hochschule und Beruf : mit Prüfungsvorbereitung, Video-DVD und Online-Material.* 1. Auflage. Stuttgart: Ernst Klett, 2017. 320 stran. ISBN 9783128000671.

ESF:BPJ_JI3F Foreign Language I/3 - French

3 credits, type of completion z (credit), course guarantor Mgr. Marie Červenková, Ph.D.

Teacher(s)

Mgr. Marie Červenková, Ph.D. (seminar tutor)

Course objectives

The third semester of the course develops skills covered and competencies gained in the BPJ_JI1F and BPJ_JI2F courses. The topics are extended in cycles, new topics from certain vocationally relevant areas are added and basic skills are further diversified.

Teaching methods

This course is taught in the form of seminars.

Assessment methods

The course is completed with conferring a credit. Credit requirements include the following:

- 80% active participation in seminars (systematic continuous preparation and fulfilling assigned tasks)
- 60 % success rate in the final credit test

seminar presentation on a economic topic delivered in the course of the semester Any copying, recording or leaking tests, use of unauthorized tools, aids and communication devices, or other disruptions of objectivity of exams (credit tests) will be considered non-compliance with the conditions for course completion as well as a severe violation of the study rules. Consequently, the teacher will finish the exam (credit test) by awarding grade "F" in the Information System, and the Dean will initiate disciplinary proceedings that may result in study termination.

Learning outcomes

At the end of the course, students should be able to:

- apply gained specialized terminology to role-playing, simulations of negotiations and business meetings;
- express themselves with accuracy as for the style and a degree of formality
- read and understand authentic professional texts at upper-intermediate and advanced level

Syllabus

Import, Export

Methods of Payment: Cheque, Bill of Exchange, Bank Transfer, Documentary Letter of Credit

Customer Care

Outsourcing

Intellectual and Industrial Property

Business Correspondence: Orders, Online Orders, Letter of Acknowledgement

Literature**required literature**

BLOOMFIELD, Anatole and Béatrice TAUZIN. *Affaires a suivre :cours de français professionnel de niveau intermédiaire*. Paris: Hachette, 2001. 192 s. ISBN 2-01-155164-1.

SACHS, Rudolf and Renata POHORSKÁ. *Francouzská obchodní korespondence : Correspondance commerciale (Souběž.)*. 1. vyd. Plzeň: Fraus, 1999. 224 s. ISBN 80-85784-84-X.

ESF:BPJ_JI3N Foreign Language I/3 - German

3 credits, type of completion z (credit), course guarantor Mgr. Petra Sojková

Teacher(s)

Mgr. Petra Sojková (seminar tutor)

Course objectives

The third semester of the course develops skills covered and competencies gained in the BPJ_JI1N and BPJ_JI2N courses. The topics are extended in cycles, new topics from certain vocationally relevant areas are added and basic skills are further diversified.

Teaching methods

This course is taught in the form of seminars.

Assessment methods

This course is completed with conferring a credit.

Credit requirements include the following:

- 80% active participation in seminars (systematic continuous preparation and fulfilling assigned tasks)
- 60 % success rate in the final credit test
- company presentation delivered in the course.

Any copying, recording or leaking tests, use of unauthorized tools, aids and communication devices, or other disruptions of objectivity of exams (credit tests) will be considered non-compliance with the conditions for course completion as well as a severe violation of the study rules. Consequently, the teacher will finish the exam (credit test) by awarding grade "F" in the Information System, and the Dean will initiate disciplinary proceedings that may result in study termination."

Learning outcomes

At the end of the course, students should be able to:

- apply gained specialized terminology to role-playing, simulations of negotiations and business meetings;
- express themselves with accuracy as for the style and a degree of formality
- read and understand authentic professional texts at upper-intermediate and advanced level
- translate authentic professional texts at upper-intermediate and advanced level to their mother tongue with the help of a dictionary.

Syllabus

1. Wirtschaftsdeutsch aktuell 1. Pros and cons of mergers
 2. Globalization and options for small countries, Unemployment
 3. Consequences of economic growth, Environment
 4. Internet business and Internet
 5. Ways out of the economic crisis, Business cycle
 6. Stock Exchange
 7. German-Czech economic relations
 8. Money, currency, inflation
 9. Banks
- Wirtschaftskommunikation Deutsch:
- Chapter 12: Searching for a sales partner (Ex. 1,2,3,4,5)
- Chapter 13: Choice of a sales partner (Ex. 1,2,5,6,7,8,9)
- Chapter 14: Product policy (Ex. 3,4,5), Brand policy (Ex. 6,7,8)
- Chapter 15: Needsanalysis (Ex. 1,2,3,4,5), Marketresearch (Ex. 6,7,8,9) 10. Test

Literature**required literature**

- HÖPPNEROVÁ, Věra. *Wirtschaftsdeutsch aktuell*. 1. vyd. Praha: Ekopress, 2010. 142 s. ISBN 9788086929583.
- EISMANN, Volker. *Wirtschaftskommunikation Deutsch*.. Berlin: Langenscheidt, 2008. 223 s. ISBN 9783468904653.

recommended literature

- HUŠKOVÁ, Helena. *Německá čítanka ekonomických textů a cvičeními*. 1. vyd. Brno: Masarykova univerzita, 2008. 73 s. ISBN 9788021045712.
- DREYER, Hilke and Richard SCHMITT. *Lehr- und Übungs- CD-ROM der deutschen Grammatik*. Ismaning: Huber, 2002. 1 CD-ROM. ISBN 3-19-137255-5.
- BÜRGER, Josef. *Wirtschaftswörterbuch Tschechisch-Deutsch*. 1. vyd. Plzeň: Nakladatelství Fraus, 1998. 775 s. ISBN 80-85784-29-7.
- BÜRGER, Josef. *Wirtschaftswörterbuch deutsch-tschechisch*. 1. vyd. Plzeň: Fraus, 1997. 823 s. ISBN 80-85784-28-9.
- DREYER, Hilke and Richard SCHMITT. *Lehr- und Übungsbuch der deutschen Grammatik*. 2. Aufl. München: Verlag für Deutsch, 1991. 320 s. ISBN 3-88532-608-6.

ESF:BPJ_JI3S Foreign Language I/1 - Spanish

3 credits, type of completion z (credit), course guarantor Mgr. Veronika De Azevedo Camacho, Ph.D.

Teacher(s)

Mgr. Veronika De Azevedo Camacho, Ph.D. (seminar tutor)

Course objectives

In the third semester the course develops skills covered in the BPJ_JI2S course and provides an opportunity to master further topics and skills typical for a more complex communication, and to apply them to professional activities typical of the business environment, such as:

- interpretation of graphical data,
- writing up order/offer,
- writing up an invoice and
- writing up circular note/memorandum.

This subject further develops students' general and business vocabulary as well as grammatical structures typical for technical language. The stress is again put not only on the development of communication skills, but also on the ability to use the acquired knowledge actively.

Teaching methods

The course is taught in the form of seminars.

Assessment methods

The course is completed with conferring a credit. Credit requirements include the following:

- 80% active participation in seminars (systematic continuous preparation and fulfilling assigned tasks),
- 60% success rate in the final credit test,
- seminar work, continuous tasks

Learning outcomes

At the end of this course, students should be able to:

- understand a general economic text of upper-intermediate difficulty level,
- discuss covered economic topics and
- orientate themselves in Spanish economic terminology relating to the covered topics.

Syllabus

Léxico relacionado con el mundo empresarial, la jerga o el lenguaje de los profesionales,
 Los tipos de sociedades en España I (diferentes criterios de clasificación),
 Los tipos de sociedades en España II (los choques culturales en la empresa),
 Creación de una empresa I (interpretación de gráficos, cantidades, organigramas),
 Creación de una empresa II (los departamentos y sus funciones, los cargos y sus funciones),
 Creación de una empresa III (pasos para la creación de una empresa, diferentes aspectos de la Economía española),
 Producción y fabricación,
 La productividad laboral.

Gramática: (no) me gusta/molesta/importa...(que) + infinitivo o subjuntivo, infinitivo/subjuntivo con verbos de sentimiento, deseo y necesidad (alegrarse, gustar, importar, encantar, querer, esperar, desear...), indicativo/subjuntivo con verbos de entendimiento y percepción física o intelectual (creo, pienso, recuerdo, supongo, siento, me he dado cuenta de...), perfecto de subjuntivo x pluscuamperfecto de subjuntivo, el condicional compuesto, oraciones condicionales, me gustaría + infinitivo, me gustaría que + pretérito imperfecto de subjuntivo, oraciones de relativo II, práctica de las oraciones finales (para que, con el fin de que, etc.), posición de adjetivos, superlativo absoluto, gerundio simple y compuesto, los participios - resumen, preposiciones y conjunciones - repaso.

Literature**recommended literature**

TANO, MARCELO. *Expertos: Curso avanzado de español orientado al mundo del trabajo. Cuaderno de ejercicios*. 2010. ISBN 978-84-8443-587-7.

MACÍKOVÁ, OLGA and MLÝNKOVÁ, LUDMILA. *Gramática completa de la lengua española. Velká španělská gramatika*. prvn. Brno: C Press, 2010. ISBN 978-80-251-2293-8.

IRIARTE ROMERO, Emilio and Emilia NÚÑEZ PÉREZ. *Empresa siglo XXI*. 2008. ISBN 978-84-9848-041-2.

CASTRO, Francisca. *USO de la gramática española - avanzado*. 12th ed. Edelsa, 2006. ISBN 84-7711-135-9.

MACÍKOVÁ, Olga, Vlasta HLAVIČKOVÁ and Věra ŠPÍGLOVÁ. *Španělsko-český a česko-španělský hospodářský slovník*. 1. vyd. Plzeň: Fraus, 2003. 426 s. ISBN 80-7238-261-6.

not specified

TANO, MARCELO. *Expertos: Curso avanzado de español orientado al mundo del trabajo. Libro de alumno*. Barcelona: Difusión, 2011. ISBN 978-84-8443-586-0.

SCHMIDT, CARLOS. *Asuntos de negocios. 100 actividades de discusión para la enseñanza de español de negocios*. Madrid: Edinumen, 2010. ISBN 978-84-9848-141-9.

MACÍKOVÁ, Olga and Ludmila MLÝNKOVÁ. *Español comercial*. Vyd. 1. Brno: CP Books, 2005. 342 s. ISBN 8025106527.

BONELL, PABLO, de Prada, Marisa and Schmidt, carlos SENOR, ANA. *Negocio a la vista. Reportajes con actividades para cursos de español de los negocios*. Madrid: Edinumen, 2004. ISBN 84-95986-43-4.

ESF:BPJ_JI4A Foreign Language I/4 - English

4 credits, type of completion zk (examination), course guarantor Ing. Mgr. Blanka Pojslová, Ph.D.

Teacher(s)

Mgr. Silvie Bilková (seminar tutor)
 Mgr. Jiřina Hrbáčková (seminar tutor)
 Mgr. Markéta Kovaříková (seminar tutor)
 Mgr. Dita Phillips (seminar tutor)
 Ing. Mgr. Blanka Pojslová, Ph.D. (seminar tutor)
 Mgr. Bc. Eva Punčochářová (seminar tutor)
 Mgr. Erika Putnová (seminar tutor)
 Mgr. Petra Stejskalová (seminar tutor)
 Mgr. Ladislav Václavík, Ph.D. (seminar tutor)

Course objectives

This is a follow-up course of the courses BPJ_JI1A, BPJ_JI2A and BPJ_JI3A and it is completion of students' overall communicative language competence targeting the C1 level of the Common European Reference Framework for Languages. The emphasis is put on consolidation of advanced language structures and mastering professional language with regard to the preparation for the final language exam.

Teaching methods

The course is taught in the form of seminars.

Assessment methods

The course is completed with an exam - both written and oral. Students can take an oral part of the exam provided the following requirements are fulfilled:

- 80% active participation in seminars (systematic continuous preparation and fulfilling assigned tasks)
- 60 % success rate in the final exam test
- elaborating a seminar paper (an essay written up according to an instructor's guidelines and handed in by a deadline set by an instructor).

Learning outcomes

At the end of the course, students should be able to:

- deliver a presentation using visual aids
- understand an authentic text at advanced level
- work with such a text and present his/her opinion on the issues covered there
- use language flexibly and effectively for social, academic and professional purposes
- produce clear, well-structured, detailed text on complex subjects, showing controlled use of organisational patterns, connectors and cohesive devices.

Syllabus

1. U14 Legislation
2. U14 Legislation
3. U14 Legislation
4. Writing a problem solution essay.
5. Writing a problem solution essay.
6. U15 International business
7. U15 International business
8. U15 International business
9. U16 Corporate strategy
10. U16 Corporate strategy
11. U16 Corporate strategy
12. Final revision

Literature**required literature**

ASHFORD, Stephanie and Tom SMITH. *Business proficiency : Wirtschaftsenglisch für Hochschule und Beruf : mit Prüfungsvorbereitung, Video-DVD und Online-Material*. 1. Auflage. Stuttgart: Ernst Klett, 2017. 320 stran. ISBN 9783128000671.

ESF:BPJ_JI4F Foreign Language I/4 - French

4 credits, type of completion zk (examination), course guarantor Mgr. Marie Červenková, Ph.D.

Teacher(s)

Mgr. Marie Červenková, Ph.D. (seminar tutor)
Mgr. Daniela Veškrnová (seminar tutor)

Course objectives

This is a follow-up course of the courses BPJ_JI1F, BPJ_JI2F and BPJ_JI3F and it is completion of students' overall communicative language competence targeting level C1 of the Common European Reference Framework for Languages. The emphasis is put on consolidation of advanced language structures and mastering professional language with regard to the preparation for the final language exam.

Teaching methods

The course is taught in the form of seminars.

Assessment methods

This course is completed with an exam - both written and oral.

Students can take an oral part of the exam provided the following requirements are fulfilled:

- 80% active participation in seminars (systematic continuous preparation and fulfilling assigned tasks)
- elaborating a seminar paper -
- 60 % success rate in the final exam test
- successful passing oral exam

Learning outcomes

At the end of the course, students should be able to:

- deliver a presentation using visual aids;
- understand an authentic text at advanced level;
- work with such a text and present his/her opinion on the issues covered there;
- use language flexibly and effectively for social, academic and professional purposes;
- produce clear, well-structured, detailed text on complex subjects, showing controlled use of organisational patterns, connectors and cohesive devices.

Syllabus

Company Management: Performance, Trends, Accounting
 Legal Forms of Business
 Company foundation and administrative formalities
 Company liquidation
 Competition and competitive practices
 Financing enterprise
 Stock Market: Stocks and Shares, Shareholder, Stock Exchange — Investment, Share Index
 Business Correspondence

Literature**required literature**

SACHS, Rudolf and Renata POHORSKÁ. *Francouzská obchodní korespondence : Correspondance commerciale (Souběž.)*. 1. vyd. Plzeň: Fraus, 1999. 224 s. ISBN 80-85784-84-X.

ESF:BPJ_JI4N Foreign Language I/4 - German

4 credits, type of completion zk (examination), course guarantor Mgr. Petra Sojková

Teacher(s)

Bc. Mgr. Petra Chládková (seminar tutor)
 Mgr. Petra Sojková (seminar tutor)

Course objectives

This is a follow-up course of the courses BPJ_JI1N, BPJ_JI2N and BPJ_JI3N and it is completion of students' overall communicative language competence targeting level C1 of the Common European Reference Framework for Languages.

The emphasis is put on consolidation of advanced language structures and mastering professional language with regard to the preparation for the final language exam.

Teaching methods

This course is taught in the form of seminars.

Assessment methods

This course is completed with an exam - both written and oral.

Students can take an oral part of the exam provided the following requirements are fulfilled:

- 80% active participation in seminars (systematic continuous preparation and fulfilling assigned tasks)
- 60 % success rate in the final exam test

- elaborating a seminar paper (an essay written up according to an instructor' s guidelines and handed in by a deadline set by an instructor).

Any copying, recording or leaking tests, use of unauthorized tools, aids and communication devices, or other disruptions of objectivity of exams (credit tests) will be considered non-compliance with the conditions for course completion as well as a severe violation of the study rules. Consequently, the teacher will finish the exam (credit test) by awarding grade "F" in the Information System, and the Dean will initiate disciplinary proceedings that may result in study termination.

Learning outcomes

At the end of the course, students should be able to:

- deliver a presentation using visual aids
- understand an authentic text at advanced level
- work with such a text and present his/her opinion on the issues covered there
- use language flexibly and effectively for social, academic and professional purposes
- produce clear, well-structured, detailed text on complex subjects, showing controlled use of organisational patterns, connectors and cohesive devices.

Syllabus

Wda: Wirtschaftsdeutsch aktuell, V. Höppnerova

1. Taxation, Government budget
 2. On-call employment, Alternative types of employment
 3. Corporate culture, Presentation of a company
 4. Costs
 5. Balance sheet
 6. Advertising, Marketing
 7. Trends in tourist industrie
 8. Tourist industrie in the Czech Republic, Foreign trade, balance of trade
 9. Free time as economic factor?
 16. The Tranformation of the Czech Economy
- Wirtschaftskommunikation Deutsch:
17. Chapter 17: Market penetration (Ex. 1,2)
 18. Marketing mix (Ex.3,4,5)
 19. Market analysis (Ex. 6,7)
 20. Sales support (Ex. 8)

- 21. Manufacturer and trading (Ex. 9)
- 22. Chapter 18: Produkt launch (Ex. 1,5)
- 23. Chapter 19: Sales support (Ex. 1,2,3)

Literature

required literature

HÖPPNEROVÁ, Věra. *Wirtschaftsdeutsch aktuell*. 1. vyd. Praha: Ekopress, 2010. 142 s. ISBN 9788086929583.

EISMANN, Volker. *Wirtschaftskommunikation Deutsch*.. Berlin: Langenscheidt, 2008. 223 s. ISBN 9783468904653.

recommended literature

BÜRGER, Josef. *Wirtschaftswörterbuch Tschechisch-Deutsch*. 1. vyd. Plzeň: Nakladatelství Fraus, 1998. 775 s. ISBN 80-85784-29-7.

BÜRGER, Josef. *Wirtschaftswörterbuch deutsch-tschechisch*. 1. vyd. Plzeň: Fraus, 1997. 823 s. ISBN 80-85784-28-9.

DREYER, Hilke and Richard SCHMITT. *Lehr- und Übungsbuch der deutschen Grammatik Auswahl aus den Übungen : Neubearbeitung*. Ismaning: Hueber, 2002. 2 CD-ROM. ISBN 3-19-097255-9.

HUŠKOVÁ, Helena. *Německá čítanka ekonomických textů a cvičeními*. 1. vyd. Brno: Masarykova univerzita, 2008. 73 s. ISBN 9788021045712.

ESF:BPJ_JI4S Foreign Language I/4 - Spanish

4 credits, type of completion zk (examination), course guarantor Mgr. Veronika De Azevedo Camacho, Ph.D.

Teacher(s)

Mgr. Veronika De Azevedo Camacho, Ph.D. (seminar tutor)

Course objectives

This is a follow-up course of the courses BPJ_JI1S, BPJ_JI2S and BPJ_JI3S and it is completion of students' overall communicative language competence targeting the C1 level of the Common European Reference Framework for Languages. The emphasis is put on consolidation of advanced language structures and mastering professional language with regard to the preparation for the final language exam.

Teaching methods

The course is taught in the form of seminars.

Assessment methods

The course is completed with an exam - both written and oral. Students can take an oral part of the exam provided the following requirements are fulfilled:

- 80% active participation in seminars (systematic continuous preparation and fulfilling assigned tasks)
- 60 % success rate in the final exam test
- elaborating a seminar paper (summary of an economic article; the summary should consist of approximately 250 words and it should be written up according to an instructor's guidelines and handed in by a deadline set by an instructor).

Learning outcomes

At the end of the course, students should be able to:

- understand an authentic text at advanced level
- work with such a text and present his/her opinion on the issues covered there
- use language flexibly and effectively for social, academic and professional purposes
- produce clear, well-structured, detailed text on complex subjects, showing controlled use of organisational patterns, connectors and cohesive devices.

Syllabus

El comercio (carta de pedido, envío de fondos, acuse de recibo, ofertas), los Incoterms, el comercio y sus componentes; Internet en el comercio.

Documentos comerciales (la circular, albarán de entrega, el memorando)

Las franquicias, análisis de ventas, análisis de costes, ley de mejora de protección de los consumidores,

La banca (documentos bancarios: pagaré, cheque, transferencia y carta de crédito), la hipoteca, las cajas de ahorros, el mundo bancario español y europeo;

Calidad de empleo y riesgos laborales;

Contratos de trabajo;

Cámaras de comercio;

La bolsa.

La gramática: artículos - resumen, práctica de la comparación, perífrasis verbales, práctica de oraciones consecutivas y comparativas, ser/estar + adj. + que + ind./subjuntivo, oraciones concesivas, formación de palabras, expresiones idiomáticas, ejercicios complementarios.

Literature**required literature**

IRIARTE ROMERO, Emilio and Emilia NÚNEZ PÉREZ. *Empresa siglo XXI*. 2008. ISBN 978-84-9848-041-2.

recommended literature

MACÍKOVÁ, Olga, Vlasta HLAVIČKOVÁ and Věra ŠPÍGLOVÁ. *Španělsko-český a česko-španělský hospodářský slovník*. 1. vyd. Plzeň: Fraus, 2003. 426 s. ISBN 80-7238-261-6.

not specified

SCHMIDT, CARLOS. *Asuntos de negocios. 100 actividades de discusión para la enseñanza de español de negocios*. Madrid: Edinumen, 2010. ISBN 978-84-9848-141-9.

MACÍKOVÁ, Olga and Ludmila MLÝNKOVÁ. *Español comercial*. Vyd. 1. Brno: CP Books, 2005. 342 s. ISBN 8025106527.

ESF:BPM_MATE Mathematics

6 credits, type of completion zk (examination), course guarantor Ing. Mgr. Markéta Matulová, Ph.D.

Teacher(s)

Ing. Mgr. Markéta Matulová, Ph.D. (lecturer)
 RNDr. Luboš Bauer, CSc. (seminar tutor)
 Ing. Matouš Čabalka (seminar tutor)
 Mgr. Martin Džurík (seminar tutor)
 Mgr. Lenka Franců (seminar tutor)
 Bc. Barbora Halaštová (seminar tutor)
 Mgr. Bc. Martin Chvátal, Ph.D. (seminar tutor)
 Mgr. Eva Janoušková, Ph.D. (seminar tutor)
 Ing. Lukáš Kokrda (seminar tutor)
 Bc. Nikol Lorková (seminar tutor)
 Mgr. Lukáš Másilko (seminar tutor)
 Ing. Mgr. Markéta Matulová, Ph.D. (seminar tutor)
 Mgr. Michaela Nováková (seminar tutor)
 Bc. Jan Prokop (seminar tutor)
 PhDr. Pavlína Račková, Ph.D. (seminar tutor)
 Ing. Mgr. Vlastimil Reichel, Ph.D. (seminar tutor)
 Mgr. Eva Sedláková (seminar tutor)
 Bc. Ondřej Suchánek (seminar tutor)
 Mgr. Gabriela Žárská (seminar tutor)

Course objectives

The aim of the course is to provide students with the basic tools necessary for quantitative analysis in Micro-economics, Macroeconomics and other courses.

Teaching methods

The course consists of lectures and seminars.

Assessment methods

The course is completed by an exam. The total score consists of:

- the points gained in four written tests (80%)
- the points for active participation at instructions and homework - autocorrection exercise (20%)

Any copying, recording or taking out the tests, use of unauthorized devices and means of communication or other distortions of test objectivity will be considered a failure in the course and a gross violation of study regulations. Consequently, the teacher closes the test (credit) score in IS by grade "F" and Dean initiates disciplinary proceedings.

Learning outcomes

After completing the course, students will be able to

- handle routine mathematical operations and calculations.
- understand basic mathematical concepts
- apply procedures on solving practical problems in real situations.
- figure out how to use mathematical tools in economic, commercial, managerial and financial fields.

Syllabus

Lectures

1. Basic concepts, infinite sequences and series, functions
2. Limits of functions of one variable
3. Derivatives
4. Derivatives in use
5. Optimization of function of one variable
6. Functions of two variables
7. Integration
8. Definite integral

9. Linear algebra
10. Determinant and inverse matrix
11. Systems of linear equations
12. Linear independence

Literature

required literature

SYDSÆTER, Knut, Peter J. HAMMOND, Arne STRØM and Andrés CARVAJAL. *Essential mathematics for economic analysis*. Fifth edition. Harlow: Pearson, 2016. xvi, 807. ISBN 9781292074610.

recommended literature

BAUER, Luboš, Hana LIPOVSKÁ, Miloslav MIKULÍK and Vít MIKULÍK. *Matematika v ekonomii a ekonomice (Mathematics in Economics and Economy)*. první vydání. Praha: Grada Publishing, a.s., 2015. 352 pp. ISBN 978-80-247-4419-3.

SIMON, Carl P. and Lawrence BLUME. *Mathematics for economists*. 1st ed. New York: W.W. Norton, 1994. xxiv, 930. ISBN 0393957330.

HOY, Michael. *Mathematics for economics*. 3rd ed. Cambridge, Mass.: MIT Press, 2011. xiv, 959. ISBN 9780262516228.

ESF:BPM_STA1 Statistics 1

5 credits, type of completion zk (examination), course guarantor Mgr. Petra Ráboňová, Ph.D.

Teacher(s)

Mgr. Petra Ráboňová, Ph.D. (lecturer)
 Ing. Matouš Cabalka (seminar tutor)
 Mgr. Martin Dzúrik (seminar tutor)
 Mgr. Lenka Franců (seminar tutor)
 Mgr. Bc. Martin Chvátal, Ph.D. (seminar tutor)
 Ing. Mgr. Markéta Matulová, Ph.D. (seminar tutor)
 Mgr. Petra Ráboňová, Ph.D. (seminar tutor)
 Ing. Mgr. Vlastimil Reichel, Ph.D. (seminar tutor)
 Ing. Jana Vechetová (seminar tutor)
 Mgr. Lenka Zavadilová, Ph.D. (seminar tutor)

Course objectives

At the end of the course students should be able to:

- understand and explain the basic terms in calculus of probability and in descriptive statistics;
- apply the probability terms and the descriptive statistics terms to the description of economic events and data;
- use the terminology in the follow-up course of mathematical statistics.

Teaching methods

Theoretical lectures; practical computer-aided seminar sessions;

Assessment methods

Lecture with a seminar

Test requirements:

1. Adequately active participation at seminars
2. Success at ROPOT tests
3. Success at final test

Any copying, recording or leaking tests, use of unauthorized tools, aids and communication devices, or other disruptions of objectivity of exams (credit tests) will be considered non-compliance with the conditions for course completion as well as a severe violation of the study rules. Consequently, the teacher will finish the exam (credit test) by awarding grade "F" in the Information System, and the Dean will initiate disciplinary proceedings that may result in study termination.

Learning outcomes

After graduation of the course student should be able to:

- use and interpret functional and numeric characteristics within a framework of descriptive statistics
- describe types of variables with respect to measurement scale
- quantify randomness in elementary setting by probability
- use and properly interpret distributional function, probability function and density function
- determine in mathematical statistics popular distributions with respect to the application context

Syllabus

1. Types of variables with respect to measurement scale. Data visualisation.
2. Sampling, random sample
3. Basic of descriptive statistics.
4. Frequency and probability, probability properties, examples.
5. Independent events, properties of independent events, sequence of independent events.
6. Conditional probability, total probability rule, Bayes' theorem, examples.

7. Random variable, a discrete and continuous variable, discrete probability distribution, probability function and its properties; continuous probability distribution, probability density function and its properties.
8. Distribution function, its properties and its application.
9. Numerical measures of probability distribution: expected value, variance, quantile, their properties and application in economics.
10. Numerical measures of simultaneous probability distribution: covariance, correlation coefficient, their properties and application in economics.
11. Examples of discrete and continuous probability distributions and their application in the field of economics.
12. Central limit theorem and its applications.
13. Review

Literature

required literature

BUDÍKOVÁ, Marie, Maria KRÁLOVÁ and Bohumil MAROŠ. *Průvodce základními statistickými metodami (Guide to basic statistical methods)*. vydání první. Praha: Grada Publishing, a.s., 2010. 272 pp. edice Expert. ISBN 978-80-247-3243-5. <http://www.grada.cz/ekonomie/podbor/katalog/?show=16>

recommended literature

WEISS, N. A. *Introductory statistics*. Edited by Carol A. Weiss. 10th edition, global edition. Boston: Pearson, 2017. 763, 73. ISBN 9781292099729.

ESF:BPM_STA2 Statistics 2

5 credits, type of completion zk (examination), course guarantor Mgr. Petra Ráboňová, Ph.D.

Teacher(s)

Mgr. Petra Ráboňová, Ph.D. (lecturer)
 Ing. Matouš Cabalka (seminar tutor)
 Mgr. Martin Džurík (seminar tutor)
 Mgr. Bc. Martin Chvátal, Ph.D. (seminar tutor)
 Ing. Lukáš Kokrda (seminar tutor)
 Ing. Mgr. Markéta Matulová, Ph.D. (seminar tutor)
 Mgr. Petra Ráboňová, Ph.D. (seminar tutor)
 Ing. Mgr. Vlastimil Reichel, Ph.D. (seminar tutor)

Course objectives

At the end of the course students should be able to:

- understand and explain the basics of statistical inference;
- use the basic testing procedures;
- operate the statistical software.

Teaching methods

Theoretical lectures; computer seminar sessions.

Assessment methods

The final grade is given by the score of the final test.

The requirements for taking the test are:

to be active at seminar sessions which are compulsory and to pass 2 Ropots.

Any copying, recording or leaking tests, use of unauthorized tools, aids and communication devices, or other disruptions of objectivity of exams (credit tests) will be considered non-compliance with the conditions for course completion as well as a severe violation of the study rules. Consequently, the teacher will finish the exam (credit test) by awarding grade "F" in the Information System, and the Dean will initiate disciplinary proceedings that may result in study termination.

Learning outcomes

After graduation of the course student should be able to:

- distinguish between sample and population and properly interpret principles of inferential statistics
- determine statistical methods appropriate for particular application context
- solve tasks based on real data by means of sw. STATSTICA
- interpret properly outputs of analyses

Syllabus

- Normal as well as derived exact distributions (Pearson distribution, Student distribution, F distribution) and their properties; quantile tables.
- Law of large numbers, central limit theorem.
- Basic concepts of mathematical statistics; inductive statistics, random sampling, sample statistic.
- Point estimation and interval estimation of population parameters and parametric functions.
- Introduction to hypotheses testing.
- The statistical inferences based on a single sample from normal distribution.
- The statistical inferences based on two independent samples from the normal distribution.
- The statistical inferences based on one sample or two independent samples from Bernoulli (zero-one) distribution.
- One-way analysis of variance.

- Simple linear regression.
- Introduction to correlation analysis.
- The relationship between two variables on the nominal or ordinal scale
- Nonparametric tests on medians

Literature

required literature

BUDÍKOVÁ, Marie, Maria KRÁLOVÁ and Bohumil MAROŠ. *Průvodce základními statistickými metodami (Guide to basic statistical methods)*. vydání první. Praha: Grada Publishing, a.s., 2010. 272 pp. edice Expert. ISBN 978-80-247-3243-5. <http://www.grada.cz/ekonomie/podobor/katalog/?show=16>

not specified

WEISS, N. A. *Introductory statistics*. Edited by Carol A. Weiss. 10th edition, global edition. Boston: Pearson, 2017. 763, 73. ISBN 9781292099729.

ESF:BPM_VTMA Mathematics Entrance Test

credits, type of completion z (credit), course guarantor RNDr. Luboš Bauer, CSc.

Teacher(s)

RNDr. Luboš Bauer, CSc. (seminar tutor)

Mgr. Bc. Martin Chvátal, Ph.D. (seminar tutor)

Ing. Lukáš Kokrda (seminar tutor)

Ing. Pavel Loučka (seminar tutor)

Ing. Mgr. Markéta Matulová, Ph.D. (seminar tutor)

Course objectives

The aim of the course is to test knowledge of the secondary school mathematics necessary for the course Mathematics.

Teaching methods

In case of failing in the test self-study or course Mathematics 0 before resit.

Assessment methods

Credit requirements: Success at the test of the secondary school mathematics.

Learning outcomes

The knowledge of the secondary school mathematics necessary for the course Mathematics.

Syllabus

1. The basics of logic and set theory 2. Number systems 3. The basics of algebra 4. Functions 5. Equations and inequations 6. Sequences and series 7. Combinatorics, probability theory, statistics 8. Mathematical analysis 9. Analytic geometry

Literature

required literature

POLÁK, Josef. *Přehled středoškolské matematiky*. 9. vyd. Praha : Prometheus, 2008. 660 s. ISBN 978-80-7196-356-1 (s výjimkou kapitoly 9) popř. učebnice matematiky pro gymnázia

recommended literature

učebnice matematiky pro gymnázia

3 Provision of personnel

This chapter includes MU academic staff involved in teaching or guarantee of required and selective courses in the degree programme.

All academic staff are provided with information on experiences with supervision of theses at the university since 2000. The format is as follows: currently supervised thesis / total supervised and successfully defended thesis.

The guarantors of the Profile Core Courses (P) and Fundamental Theoretical Profile Core Course (Z) comply with the following requirements in accordance with Government Regulation No. 274/2016 Coll., On Standards for Accreditation in Higher Education:

- Staff Member Sheet: Checks if the Staff Member Sheet is completed.
- Qualification: Guarantors of (P) courses in Master's degree programmes and guarantors of (Z) courses in Bachelor's degree programmes must have a doctoral degree.
- Habilitation: Guarantors of (Z) courses in Master's degree programmes must be habilitated.
- Participation in teaching: Guarantors of (Z) courses in Master's or Bachelor's degree programmes must participate in teaching.

3.1 Guarantors of the profile core courses

doc. Ing. Alena Klupalová, Ph.D.

Guarantor of the profile core course — P
Habilitation: (2014) Podniková ekonomika a management (Masarykova univerzita)
ESF: BPH_BAS1 Bachelor Thesis Seminar 1 (seminar tutor)
ESF: BPH_BAS2 Bachelor Thesis Seminar 2 (lecturer, guarantor)
ESF: BPH_TEBP Bachelor Thesis (seminar tutor, guarantor)

Bachelor's theses: 5 / 92
Master's theses: 14 / 208
Doctoral theses, Dissertations: 2 / 5

Theses outside MU:
bachelor's theses: 5 master's theses: 8

Ing. Michal Kvasnička, Ph.D.

Guarantor of the profile core course — Z
ESF: BPE_MIE1 Microeconomics 1 (lecturer, guarantor)

Bachelor's theses: 11 / 56
Master's theses: 5 / 47
Doctoral theses, Dissertations: 0 / 1

prof. RNDr. Luděk Matyska, CSc.

Guarantor of the profile core course — P
Professorship: (2009) Informatika (Masarykova univerzita)
Habilitation: (1998) Informatika (Masarykova univerzita)
FI: PB001 Introduction to Information Technologies (lecturer, guarantor)

Bachelor's theses: 0 / 7
Master's theses: 0 / 21
Doctoral theses, Dissertations: 3 / 23

RNDr. Petr Novotný, Ph.D.

Guarantor of the profile core course — Z
FI: IB000 Mathematical Foundations of Computer Science (seminar tutor)
FI: IB110 Introduction to Informatics (lecturer, guarantor)

Bachelor's theses: 3 / 12
Master's theses: 0 / 6
Doctoral theses, Dissertations: 0 / 0

doc. Ing. Mgr. Jakub Procházka, Ph.D.

Guarantor of the profile core course — P
Habilitation: (2021) Podniková ekonomika a management (Masarykova univerzita)
ESF: BPH_BAS1 Bachelor Thesis Seminar 1 (lecturer, guarantor)
ESF: BPH_TEBP Bachelor Thesis (seminar tutor)

Bachelor's theses: 5 / 25
Master's theses: 4 / 33
Doctoral theses, Dissertations: 3 / 3

Ing. Jaromír Skorkovský, CSc.

Guarantor of the profile core course — Z
ESF: BPH_PIS1 Corporate Information Systems 1 (lecturer, guarantor)
ESF: BPH_PIS2 Corporate Information Systems 2 (lecturer, guarantor)
ESF: BPH_TEBP Bachelor Thesis (seminar tutor)
ESF: BPH_USPI Introduction to Management Information Systems (seminar tutor)

Bachelor's theses: 14 / 68
Master's theses: 4 / 38
Doctoral theses, Dissertations: 0 / 0

doc. Ing. Bc. Petr Suchánek, Ph.D.

Guarantor of the profile core course — Z
Habilitation: (2007) Podniková ekonomika a management (Masarykova univerzita)

ESF: BPH_BAS1 Bachelor Thesis Seminar 1 (lecturer)
 ESF: BPH_EKOR Corporate Economics (lecturer, seminar tutor, guarantor)
 ESF: BPH_POEK Business Economics (lecturer, guarantor)
 ESF: BPH_TEBP Bachelor Thesis (seminar tutor)

Bachelor's theses: 9 / 104
 Master's theses: 10 / 119
 Doctoral theses, Dissertations: 1 / 7

Theses outside MU:
 Bakalářské práce: 15

doc. Ing. Radoslav Škapa, Ph.D.

Guarantor of the profile core course — Z
 Habilitation: (2012) Podniková ekonomika a management (Masarykova univerzita)
 ESF: BPH_BAS1 Bachelor Thesis Seminar 1 (lecturer)
 ESF: BPH_PINF Business Informatics (lecturer, guarantor)
 ESF: BPH_TEBP Bachelor Thesis (seminar tutor)
 ESF: BPH_USPI Introduction to Management Information Systems (seminar tutor, guarantor)

Bachelor's theses: 6 / 78
 Master's theses: 2 / 120
 Doctoral theses, Dissertations: 4 / 7

3.2 Teacher(s)

Mgr. Krištof Anetta

Staff Member Sheet missing: personnel sheet not completed.
 FI: IB113 Introduction to Programming and Algorithms (seminar tutor)

Bachelor's theses: 0 / 0
 Master's theses: 0 / 0
 Doctoral theses, Dissertations: 0 / 0

Mgr. Luděk Bártek, Ph.D.

Staff Member Sheet missing: publications, select publications.
 FI: PB162 Java (seminar tutor)

Bachelor's theses: 11 / 82
 Master's theses: 8 / 28
 Doctoral theses, Dissertations: 0 / 0

RNDr. Luboš Bauer, CSc.

Staff Member Sheet missing: select publications.
 ESF: BPM_MATE Mathematics (seminar tutor)
 ESF: BPM_VTMA Mathematics Entrance Test (seminar tutor, guarantor)

Bachelor's theses: 0 / 0
 Master's theses: 0 / 0
 Doctoral theses, Dissertations: 0 / 0

RNDr. Nikola Beneš, Ph.D.

FI: IB000 Mathematical Foundations of Computer Science (seminar tutor)
 FI: PB161 C++ Programming (lecturer, guarantor)

Bachelor's theses: 0 / 3
 Master's theses: 0 / 2
 Doctoral theses, Dissertations: 0 / 0

Mgr. Silvie Bilková

Staff Member Sheet missing: publications, select publications.
 ESF: BPJ_JI2A Foreign Language I/2 - English (seminar tutor)
 ESF: BPJ_JI3A Foreign Language I/3 - English (seminar tutor)
 ESF: BPJ_JI4A Foreign Language I/4 - English (seminar tutor)

Bachelor's theses: 0 / 0
Master's theses: 0 / 0
Doctoral theses, Dissertations: 0 / 0

Theses outside MU:
n/a

doc. Ing. Michal Brandejs, CSc.

Staff Member Sheet missing: publications, select publications.
FI: PB150 Computer-Systems Architectures (lecturer, guarantor)
FI: PV004 UNIX (lecturer, guarantor)

Bachelor's theses: 2 / 42
Master's theses: 1 / 42
Doctoral theses, Dissertations: 0 / 2

doc. Ing. RNDr. Barbora Bůhnová, Ph.D.

FI: PB007 Software Engineering I (lecturer, guarantor)

Bachelor's theses: 3 / 33
Master's theses: 8 / 110
Doctoral theses, Dissertations: 4 / 6

Ing. Matouš Cabalka

ESF: BPM_MATE Mathematics (seminar tutor)
ESF: BPM_STA1 Statistics 1 (seminar tutor)
ESF: BPM_STA2 Statistics 2 (seminar tutor)

Bachelor's theses: 0 / 0
Master's theses: 0 / 0
Doctoral theses, Dissertations: 0 / 0

Ing. Mgr. Lucie Coufalová, Ph.D. et Ph.D.

ESF: BPE_MIE1 Microeconomics 1 (seminar tutor)

Bachelor's theses: 8 / 30
Master's theses: 12 / 16
Doctoral theses, Dissertations: 0 / 0

doc. Ing. Ondřej Částek, Ph.D.

ESF: BPH_BAS1 Bachelor Thesis Seminar 1 (lecturer)
ESF: BPH_TEBP Bachelor Thesis (seminar tutor)

Bachelor's theses: 5 / 64
Master's theses: 13 / 103
Doctoral theses, Dissertations: 1 / 1

Mgr. Marie Červenková, Ph.D.

ESF: BPJ_JI2F Foreign Language I/2 - French (seminar tutor, guarantor)
ESF: BPJ_JI3F Foreign Language I/3 - French (seminar tutor, guarantor)
ESF: BPJ_JI4F Foreign Language I/4 - French (seminar tutor, guarantor)

Bachelor's theses: 0 / 8
Master's theses: 0 / 4
Doctoral theses, Dissertations: 0 / 0

Ing. Renata Čuhlová, Ph.D., BA (Hons)

ESF: BPH_TEBP Bachelor Thesis (seminar tutor)

Bachelor's theses: 5 / 15
Master's theses: 14 / 20
Doctoral theses, Dissertations: 0 / 0

RNDr. Lukáš Daubner

FI: PB007 Software Engineering I (seminar tutor)

Bachelor's theses: 4 / 6

Master's theses: 1 / 3

Doctoral theses, Dissertations: 0 / 0

Mgr. Veronika De Azevedo Camacho, Ph.D.

ESF: BPJ_JI2S Foreign Language I/2 - Spanish (seminar tutor, guarantor)

ESF: BPJ_JI3S Foreign Language I/1 - Spanish (seminar tutor, guarantor)

ESF: BPJ_JI4S Foreign Language I/4 - Spanish (seminar tutor, guarantor)

Bachelor's theses: 0 / 0

Master's theses: 0 / 0

Doctoral theses, Dissertations: 0 / 0

RNDr. Karolína Dočkalová Burská

FI: PB162 Java (seminar tutor)

Bachelor's theses: 2 / 5

Master's theses: 0 / 4

Doctoral theses, Dissertations: 0 / 0

Theses outside MU:

-

doc. RNDr. Vlastislav Dohnal, Ph.D.

FI: PB168 Introduction to DB and IS (lecturer)

Bachelor's theses: 2 / 72

Master's theses: 5 / 65

Doctoral theses, Dissertations: 2 / 3

Ing. Bc. Michal Ďuríník, Ph.D.

ESF: BPH_TEBP Bachelor Thesis (seminar tutor)

Bachelor's theses: 0 / 17

Master's theses: 0 / 1

Doctoral theses, Dissertations: 0 / 0

Mgr. Hana Fitzová, Ph.D.

ESF: BPE_MAE1 Macroeconomics 1 (seminar tutor)

ESF: BPE_MIE1 Microeconomics 1 (seminar tutor)

Bachelor's theses: 11 / 25

Master's theses: 5 / 9

Doctoral theses, Dissertations: 0 / 0

Mgr. Tomáš Foltýnek, Ph.D.*Staff Member Sheet missing: select publications.*

FI: IB000 Mathematical Foundations of Computer Science (seminar tutor)

Bachelor's theses: 4 / 4

Master's theses: 2 / 2

Doctoral theses, Dissertations: 0 / 0

doc. Ing. Veronika Hedija, Ph.D.

ESF: BPH_EKOR Corporate Economics (seminar tutor)

Bachelor's theses: 0 / 7

Master's theses: 2 / 23

Doctoral theses, Dissertations: 0 / 0

doc. RNDr. Eva Hladká, Ph.D.

Staff Member Sheet missing: select publications.

FI: PB001 Introduction to Information Technologies (lecturer)

Bachelor's theses: 2 / 79

Master's theses: 0 / 34

Doctoral theses, Dissertations: 3 / 4

prof. RNDr. Petr Hliněný, Ph.D.

FI: IB000 Mathematical Foundations of Computer Science (lecturer, guarantor)

Bachelor's theses: 2 / 26

Master's theses: 1 / 18

Doctoral theses, Dissertations: 3 / 8

Mgr. Jiřina Hrbáčková

ESF: BPJ_JI2A Foreign Language I/2 - English (seminar tutor)

ESF: BPJ_JI3A Foreign Language I/3 - English (seminar tutor)

ESF: BPJ_JI4A Foreign Language I/4 - English (seminar tutor)

Bachelor's theses: 0 / 0

Master's theses: 0 / 0

Doctoral theses, Dissertations: 0 / 0

Ing. Bc. Jana Hvozdenká, Ph.D.

ESF: BPF_FIU1 Financial Accounting 1 (seminar tutor)

Bachelor's theses: 9 / 38

Master's theses: 11 / 53

Doctoral theses, Dissertations: 0 / 0

Ing. Eva Hýblová, Ph.D.

ESF: BPF_FIU1 Financial Accounting 1 (lecturer, seminar tutor, guarantor)

Bachelor's theses: 6 / 68

Master's theses: 11 / 104

Doctoral theses, Dissertations: 0 / 0

Bc. Mgr. Petra Chládková

ESF: BPJ_JI2N Foreign Language I/2 - German (seminar tutor)

ESF: BPJ_JI4N Foreign Language I/4 - German (seminar tutor)

Bachelor's theses: 0 / 0

Master's theses: 0 / 0

Doctoral theses, Dissertations: 0 / 0

Ing. Petra Chovancová, Ph.D.

Staff Member Sheet missing: professional employment since graduating from a higher-education institution.

ESF: BPE_MAE1 Macroeconomics 1 (seminar tutor)

ESF: BPE_MIE1 Microeconomics 1 (seminar tutor)

Bachelor's theses: 0 / 1

Master's theses: 0 / 0

Doctoral theses, Dissertations: 0 / 0

Mgr. Bc. Martin Chvátal, Ph.D.

Staff Member Sheet missing: publications, select publications.

ESF: BPM_MATE Mathematics (seminar tutor)

ESF: BPM_STA1 Statistics 1 (seminar tutor)

ESF: BPM_STA2 Statistics 2 (seminar tutor)

ESF: BPM_VTMA Mathematics Entrance Test (seminar tutor)

Bachelor's theses: 1 / 1

Master's theses: 0 / 0

Doctoral theses, Dissertations: 0 / 0

Ing. Michal Jirásek, Ph.D.

ESF: BPH_TEBP Bachelor Thesis (seminar tutor)

Bachelor's theses: 5 / 19

Master's theses: 9 / 35

Doctoral theses, Dissertations: 0 / 0

Theses outside MU:

Bakalářské práce: 14 Diplomové práce: 22

Ing. Jan Jonáš, Ph.D.

Staff Member Sheet missing: publications, select publications.

ESF: BPE_MAE1 Macroeconomics 1 (seminar tutor)

Bachelor's theses: 14 / 63

Master's theses: 6 / 47

Doctoral theses, Dissertations: 0 / 0

Ing. Michaela Kecskésová

Staff Member Sheet missing: publications, select publications.

ESF: BPE_MIE1 Microeconomics 1 (seminar tutor)

Bachelor's theses: 0 / 0

Master's theses: 0 / 0

Doctoral theses, Dissertations: 0 / 0

Ing. Lukáš Kokrda

Staff Member Sheet missing: professional employment since graduating from a higher-education institution.

ESF: BPM_MATE Mathematics (seminar tutor)

ESF: BPM_STA2 Statistics 2 (seminar tutor)

ESF: BPM_VTMA Mathematics Entrance Test (seminar tutor)

Bachelor's theses: 0 / 0

Master's theses: 0 / 0

Doctoral theses, Dissertations: 0 / 0

Mgr. Markéta Kovaříková

Staff Member Sheet missing: publications, select publications.

ESF: BPJ_JI2A Foreign Language I/2 - English (seminar tutor)

ESF: BPJ_JI3A Foreign Language I/3 - English (seminar tutor)

ESF: BPJ_JI4A Foreign Language I/4 - English (seminar tutor)

Bachelor's theses: 0 / 0

Master's theses: 0 / 0

Doctoral theses, Dissertations: 0 / 0

Ing. Mgr. Michal Krčál, Ph.D.

ESF: BPH_BAS1 Bachelor Thesis Seminar 1 (lecturer)

ESF: BPH_PINF Business Informatics (lecturer, seminar tutor)

ESF: BPH_TEBP Bachelor Thesis (seminar tutor)

ESF: BPH_USPI Introduction to Management Information Systems (seminar tutor)

Bachelor's theses: 9 / 65

Master's theses: 8 / 61

Doctoral theses, Dissertations: 0 / 0

Ing. Zuzana Křížová, Ph.D.

ESF: BPF_FIU1 Financial Accounting 1 (seminar tutor)

Bachelor's theses: 5 / 48

Master's theses: 5 / 106

Doctoral theses, Dissertations: 0 / 0

Theses outside MU:

Vysoké učení technické v Brně, Fakulta podnikatelská Bakalářské práce: 85 Diplomové práce: 64

Ing. Ladislava Kuchynková, Ph.D.

ESF: BPH_TEBP Bachelor Thesis (seminar tutor)

Bachelor's theses: 6 / 38

Master's theses: 9 / 69

Doctoral theses, Dissertations: 0 / 0

prof. Ing. Martin Kvizda, Ph.D.

ESF: BDX_AKAP Academic writing (lecturer, guarantor)

Bachelor's theses: 10 / 44

Master's theses: 10 / 114

Doctoral theses, Dissertations: 1 / 5

doc. Ing. Pavla Marciánová, Ph.D.

ESF: BPH_TEBP Bachelor Thesis (seminar tutor)

Bachelor's theses: 11 / 70

Master's theses: 15 / 86

Doctoral theses, Dissertations: 0 / 0

Mgr. Lukáš Másilko

ESF: BPM_MATE Mathematics (seminar tutor)

Bachelor's theses: 0 / 0

Master's theses: 0 / 0

Doctoral theses, Dissertations: 0 / 0

doc. RNDr. Martin Maška, Ph.D.

FI: IB000 Mathematical Foundations of Computer Science (seminar tutor)

Bachelor's theses: 3 / 20

Master's theses: 2 / 9

Doctoral theses, Dissertations: 1 / 1

doc. RNDr. Pavel Matula, Ph.D.

FI: IB000 Mathematical Foundations of Computer Science (seminar tutor)

Bachelor's theses: 3 / 43

Master's theses: 3 / 37

Doctoral theses, Dissertations: 0 / 1

Ing. Mgr. Markéta Matulová, Ph.D.

ESF: BPM_MATE Mathematics (lecturer, seminar tutor, guarantor)

ESF: BPM_STA1 Statistics 1 (seminar tutor)

ESF: BPM_STA2 Statistics 2 (seminar tutor)

ESF: BPM_VTMA Mathematics Entrance Test (seminar tutor)

Bachelor's theses: 0 / 2

Master's theses: 5 / 16

Doctoral theses, Dissertations: 0 / 0

Ing. Petr Mikuš, Ph.D.

ESF: BPH_EKOR Corporate Economics (seminar tutor)

ESF: BPH_POEK Business Economics (seminar tutor)

ESF: BPH_TEBP Bachelor Thesis (seminar tutor)

Bachelor's theses: 15 / 98

Master's theses: 9 / 87

Doctoral theses, Dissertations: 0 / 0

Theses outside MU:

Bakalářské práce: 18 Diplomové práce: 16 Disertační práce: 0

Ing. Dušan Mladenović, Ph.D.

ESF: BPH_TEBP Bachelor Thesis (seminar tutor)

Bachelor's theses: 5 / 16
Master's theses: 11 / 30
Doctoral theses, Dissertations: 0 / 0

Theses outside MU:
n/a

Ing. Jakub Moučka

Staff Member Sheet missing: personnel sheet not completed.

ESF: BPE_MAE1 Macroeconomics 1 (seminar tutor)
ESF: BPE_MIE1 Microeconomics 1 (seminar tutor)

Bachelor's theses: 2 / 2
Master's theses: 0 / 0
Doctoral theses, Dissertations: 0 / 0

Ing. Svatopluk Nečas, Ph.D.

ESF: BPF_FIU1 Financial Accounting 1 (seminar tutor)

Bachelor's theses: 8 / 58
Master's theses: 4 / 67
Doctoral theses, Dissertations: 0 / 0

PhDr. Jaroslav Nekuda

ESF: BDX_AKAP Academic writing (lecturer, seminar tutor)

Bachelor's theses: 0 / 0
Master's theses: 0 / 0
Doctoral theses, Dissertations: 0 / 0

Ing. Josef Nešleha

Staff Member Sheet missing: professional employment since graduating from a higher-education institution.

ESF: BPF_FIU1 Financial Accounting 1 (seminar tutor)

Bachelor's theses: 9 / 26
Master's theses: 13 / 48
Doctoral theses, Dissertations: 0 / 0

doc. Mgr. Jan Obdržálek, PhD.

Staff Member Sheet missing: select publications.

FI: IB000 Mathematical Foundations of Computer Science (seminar tutor)

Bachelor's theses: 2 / 10
Master's theses: 1 / 17
Doctoral theses, Dissertations: 1 / 1

Mgr. et Mgr. Tomáš Ondráček, Ph.D.

ESF: BPH_BAS1 Bachelor Thesis Seminar 1 (lecturer)
ESF: BPH_TEBP Bachelor Thesis (seminar tutor)
ESF: BPH_USPI Introduction to Management Information Systems (seminar tutor)

Bachelor's theses: 8 / 39
Master's theses: 12 / 30
Doctoral theses, Dissertations: 0 / 0

Mgr. Markéta Oplatková Pločková

Staff Member Sheet missing: publications, select publications.

ESF: BPJ_JI3A Foreign Language I/3 - English (seminar tutor)

Bachelor's theses: 0 / 0
Master's theses: 1 / 1
Doctoral theses, Dissertations: 0 / 0

Ing. Gabriela Oškrdalová, Ph.D.

ESF: BPF_FIU1 Financial Accounting 1 (seminar tutor)

Bachelor's theses: 9 / 51

Master's theses: 3 / 41

Doctoral theses, Dissertations: 0 / 0

RNDr. Radek Ošlejšek, Ph.D.

FI: PB162 Java (lecturer)

Bachelor's theses: 6 / 79

Master's theses: 5 / 100

Doctoral theses, Dissertations: 0 / 0

Ing. Tomáš Paleta, Ph.D.

ESF: BPE_MAE1 Macroeconomics 1 (seminar tutor)

ESF: BPE_MIE1 Microeconomics 1 (seminar tutor)

Bachelor's theses: 9 / 54

Master's theses: 7 / 48

Doctoral theses, Dissertations: 0 / 0

Ing. Vilém Pařil, Ph.D.

ESF: BPE_MIE1 Microeconomics 1 (seminar tutor)

Bachelor's theses: 4 / 25

Master's theses: 6 / 62

Doctoral theses, Dissertations: 0 / 0

Theses outside MU:

-

doc. Mgr. Radek Pelánek, Ph.D.

FI: IB113 Introduction to Programming and Algorithms (lecturer, guarantor)

Bachelor's theses: 2 / 44

Master's theses: 0 / 47

Doctoral theses, Dissertations: 2 / 4

Mgr. Dita Phillips*Staff Member Sheet missing: professional employment since graduating from a higher-education institution, publications, select publications.*

ESF: BPJ_JI2A Foreign Language I/2 - English (seminar tutor)

ESF: BPJ_JI3A Foreign Language I/3 - English (seminar tutor)

ESF: BPJ_JI4A Foreign Language I/4 - English (seminar tutor)

Bachelor's theses: 0 / 0

Master's theses: 0 / 0

Doctoral theses, Dissertations: 0 / 0

doc. Ing. Petr Pirožek, Ph.D.

ESF: BPH_TEBP Bachelor Thesis (seminar tutor)

Bachelor's theses: 7 / 59

Master's theses: 11 / 82

Doctoral theses, Dissertations: 0 / 4

Theses outside MU:

Vedené práce na JČU a VŠE Fakulta managementu Bakalářské práce: 22 Diplomové práce: 93 Disertační práce: 2

prof. RNDr. Tomáš Pítner, Ph.D.

FI: PB162 Java (lecturer, guarantor)

Bachelor's theses: 8 / 141

Master's theses: 17 / 207

Doctoral theses, Dissertations: 4 / 10

Theses outside MU:

Doctoral theses, Dissertations: 1 (co-supervision, University of Vienna)

RNDr. Jaromír Plhák, Ph.D.

FI: IB113 Introduction to Programming and Algorithms (seminar tutor)

FI: PB162 Java (seminar tutor)

Bachelor's theses: 5 / 33

Master's theses: 1 / 5

Doctoral theses, Dissertations: 0 / 0

Ing. Mgr. Blanka Pojslová, Ph.D.

ESF: BPJ_JI2A Foreign Language I/2 - English (seminar tutor, guarantor)

ESF: BPJ_JI3A Foreign Language I/3 - English (seminar tutor, guarantor)

ESF: BPJ_JI4A Foreign Language I/4 - English (seminar tutor, guarantor)

Bachelor's theses: 0 / 0

Master's theses: 0 / 0

Doctoral theses, Dissertations: 0 / 0

Mgr. Jiří Poláček, Ph.D.

ESF: BDX_AKAP Academic writing (seminar tutor)

Bachelor's theses: 0 / 1

Master's theses: 0 / 0

Doctoral theses, Dissertations: 0 / 0

Mgr. Bc. Eva Punčochářová

ESF: BPJ_JI2A Foreign Language I/2 - English (seminar tutor)

ESF: BPJ_JI3A Foreign Language I/3 - English (seminar tutor)

ESF: BPJ_JI4A Foreign Language I/4 - English (seminar tutor)

Bachelor's theses: 0 / 0

Master's theses: 0 / 0

Doctoral theses, Dissertations: 0 / 0

Theses outside MU:

n/a

Mgr. Erika Putnová

Staff Member Sheet missing: publications, select publications.

ESF: BPJ_JI2A Foreign Language I/2 - English (seminar tutor)

ESF: BPJ_JI3A Foreign Language I/3 - English (seminar tutor)

ESF: BPJ_JI4A Foreign Language I/4 - English (seminar tutor)

Bachelor's theses: 0 / 0

Master's theses: 0 / 0

Doctoral theses, Dissertations: 0 / 0

Mgr. Petra Ráboňová, Ph.D.

ESF: BPM_STA1 Statistics 1 (lecturer, seminar tutor, guarantor)

ESF: BPM_STA2 Statistics 2 (lecturer, seminar tutor, guarantor)

Bachelor's theses: 1 / 1

Master's theses: 0 / 0

Doctoral theses, Dissertations: 0 / 0

RNDr. Jaroslav Ráček, Ph.D.

Staff Member Sheet missing: select publications.

FI: PB168 Introduction to DB and IS (lecturer)

FI: PV165 Process Management (lecturer, guarantor)

Bachelor's theses: 2 / 117
Master's theses: 0 / 143
Doctoral theses, Dissertations: 0 / 0

Ing. Mgr. Vlastimil Reichel, Ph.D.

ESF: BPM_MATE Mathematics (seminar tutor)
ESF: BPM_STA1 Statistics 1 (seminar tutor)
ESF: BPM_STA2 Statistics 2 (seminar tutor)

Bachelor's theses: 8 / 28
Master's theses: 14 / 43
Doctoral theses, Dissertations: 0 / 0

Theses outside MU:

-

RNDr. Petr Ročkai, Ph.D.

Staff Member Sheet missing: professional employment since graduating from a higher-education institution.
FI: PB152 Operating Systems (lecturer, guarantor)
FI: PB161 C++ Programming (lecturer)

Bachelor's theses: 0 / 11
Master's theses: 1 / 11
Doctoral theses, Dissertations: 0 / 0

RNDr. Lukáš Ručka

Staff Member Sheet missing: publications, select publications.
FI: IB113 Introduction to Programming and Algorithms (seminar tutor)

Bachelor's theses: 3 / 9
Master's theses: 0 / 0
Doctoral theses, Dissertations: 0 / 0

Theses outside MU:

-

Mgr. Ing. Milan Sedláček, Ph.D.

Staff Member Sheet missing: publications, select publications.
ESF: BPH_EKOR Corporate Economics (seminar tutor)
ESF: BPH_TEBP Bachelor Thesis (seminar tutor)

Bachelor's theses: 3 / 38
Master's theses: 2 / 34
Doctoral theses, Dissertations: 0 / 0

Theses outside MU:

-

Ing. Petr Smutný, Ph.D.

ESF: BPH_TEBP Bachelor Thesis (seminar tutor)

Bachelor's theses: 6 / 53
Master's theses: 11 / 61
Doctoral theses, Dissertations: 0 / 0

Mgr. Petra Sojková

ESF: BPJ_JI2N Foreign Language I/2 - German (seminar tutor, guarantor)
ESF: BPJ_JI3N Foreign Language I/3 - German (seminar tutor, guarantor)
ESF: BPJ_JI4N Foreign Language I/4 - German (seminar tutor, guarantor)

Bachelor's theses: 0 / 0
Master's theses: 0 / 0
Doctoral theses, Dissertations: 0 / 0

RNDr. Josef Spurný, Ph.D.

Staff Member Sheet missing: personnel sheet not completed.

FI: PV165 Process Management (seminar tutor)

Bachelor's theses: 0 / 1

Master's theses: 5 / 30

Doctoral theses, Dissertations: 0 / 0

Mgr. Petra Stejskalová

ESF: BPJ_JI2A Foreign Language I/2 - English (seminar tutor)

ESF: BPJ_JI3A Foreign Language I/3 - English (seminar tutor)

ESF: BPJ_JI4A Foreign Language I/4 - English (seminar tutor)

Bachelor's theses: 0 / 0

Master's theses: 0 / 0

Doctoral theses, Dissertations: 0 / 0

doc. RNDr. David Svoboda, Ph.D.

FI: IB000 Mathematical Foundations of Computer Science (seminar tutor)

Bachelor's theses: 0 / 23

Master's theses: 1 / 15

Doctoral theses, Dissertations: 2 / 2

Ing. Bc. Alena Šafrová Drážilová, Ph.D.

ESF: BPH_BAS1 Bachelor Thesis Seminar 1 (lecturer)

ESF: BPH_TEBP Bachelor Thesis (seminar tutor)

Bachelor's theses: 4 / 51

Master's theses: 11 / 61

Doctoral theses, Dissertations: 0 / 0

Theses outside MU:

Bakalářské práce: 19 Diplomové práce: 4

Ing. Ladislav Šiška, Ph.D.

ESF: BPH_MAUUC Managerial Accounting (lecturer, seminar tutor, guarantor)

ESF: BPH_TEBP Bachelor Thesis (seminar tutor)

Bachelor's theses: 6 / 60

Master's theses: 5 / 111

Doctoral theses, Dissertations: 0 / 0

Mgr. Ing. Ondřej Špetík, Ph.D.

ESF: BPE_MAE1 Macroeconomics 1 (seminar tutor)

Bachelor's theses: 16 / 22

Master's theses: 1 / 1

Doctoral theses, Dissertations: 0 / 0

Ing. Eva Švandová, Ph.D.

ESF: BPH_MAUUC Managerial Accounting (seminar tutor)

ESF: BPH_TEBP Bachelor Thesis (seminar tutor)

Bachelor's theses: 6 / 68

Master's theses: 12 / 61

Doctoral theses, Dissertations: 0 / 0

prof. Ing. Zdeněk Tomeš, Ph.D.

ESF: BPE_MIE1 Microeconomics 1 (lecturer)

Bachelor's theses: 7 / 31

Master's theses: 5 / 65

Doctoral theses, Dissertations: 1 / 4

Mgr. et Mgr. Lenka Tóthová, Ph.D.

ESF: BPJ_JI2A Foreign Language I/2 - English (seminar tutor)

Bachelor's theses: 0 / 2

Master's theses: 0 / 0

Doctoral theses, Dissertations: 0 / 0

RNDr. Vladimír Ulman, Ph.D.

FI: PB162 Java (seminar tutor)

Bachelor's theses: 1 / 14

Master's theses: 0 / 6

Doctoral theses, Dissertations: 0 / 0

Mgr. Ladislav Václavík, Ph.D.

ESF: BPJ_JI2A Foreign Language I/2 - English (seminar tutor)

ESF: BPJ_JI3A Foreign Language I/3 - English (seminar tutor)

ESF: BPJ_JI4A Foreign Language I/4 - English (seminar tutor)

Bachelor's theses: 0 / 0

Master's theses: 0 / 0

Doctoral theses, Dissertations: 0 / 0

Ing. Petr Valouch, Ph.D.

ESF: BPF_FIU1 Financial Accounting 1 (seminar tutor)

Bachelor's theses: 9 / 77

Master's theses: 8 / 130

Doctoral theses, Dissertations: 0 / 0

Mgr. Daniela Veškrnová

ESF: BPJ_JI2F Foreign Language I/2 - French (seminar tutor)

ESF: BPJ_JI4F Foreign Language I/4 - French (seminar tutor)

Bachelor's theses: 1 / 1

Master's theses: 0 / 0

Doctoral theses, Dissertations: 0 / 0

Theses outside MU:

Bakalářské práce: 2 (NEWTON College, a.s.)

Ahad Zareravasan, PhD

ESF: BPH_PINF Business Informatics (seminar tutor)

ESF: BPH_TEBP Bachelor Thesis (seminar tutor)

Bachelor's theses: 5 / 10

Master's theses: 22 / 29

Doctoral theses, Dissertations: 1 / 1

Theses outside MU:

Bachelor's theses: none Master's theses: over 20 Doctoral theses, Dissertations: 1

Ing. Viliam Záhurecký, MBA, Ph.D.

ESF: BPH_EKOR Corporate Economics (seminar tutor)

ESF: BPH_POEK Business Economics (seminar tutor)

ESF: BPH_TEBP Bachelor Thesis (seminar tutor)

Bachelor's theses: 15 / 137

Master's theses: 9 / 195

Doctoral theses, Dissertations: 0 / 0

prof. Ing. Pavel Zezula, CSc.

FI: PB168 Introduction to DB and IS (guarantor)

Bachelor's theses: 1 / 7
 Master's theses: 1 / 22
 Doctoral theses, Dissertations: 3 / 16

RNDr. Aleš Zlámal

Staff Member Sheet missing: publications, select publications.
 FI: PB162 Java (seminar tutor)

Bachelor's theses: 0 / 28
 Master's theses: 0 / 3
 Doctoral theses, Dissertations: 0 / 0

Mgr. Ing. Jan Žák

ESF: BPH_TEBP Bachelor Thesis (seminar tutor)

Bachelor's theses: 0 / 39
 Master's theses: 1 / 33
 Doctoral theses, Dissertations: 0 / 0

Ing. Bc. Sylva Žáková Talpová, Ph.D.

ESF: BPH_TEBP Bachelor Thesis (seminar tutor)

Bachelor's theses: 3 / 26
 Master's theses: 12 / 56
 Doctoral theses, Dissertations: 0 / 0

doc. Ing. Libor Žídek, Ph.D.

ESF: BPE_MAE1 Macroeconomics 1 (lecturer, guarantor)

Bachelor's theses: 7 / 39
 Master's theses: 6 / 94
 Doctoral theses, Dissertations: 3 / 10

3.3 Composition of pedagogical staff by age

Position	Up to 35 years	36 — 55 years	56 — 70 years	71 years and more
Professor	0	4	1	1
Associate professor	0	13	3	0
Assistant professor	7	25	2	1
Lecturer	9	20	3	0
Researcher	0	2	0	0
Other (not academic)	4	3	2	0

3.4 Number of foreign pedagogical staff

	Quantity
Total number of pedagogical staff	100
From Slovakia	5
Other countries	2
Total number of foreign pedagogical staff	7

3.5 Publications

The academic has selected up to five of their most important publications over the last five years.

doc. Ing. Alena Klupalová, Ph.D.

Pain points and challenges of cores return management among German and French automotive aftermarket companies (in press)

KLAPALOVÁ, Alena, Michal PLAČEK, Radoslav ŠKAPA and Gabriela VACEKOVÁ. Pain points and challenges of cores return management among German and French automotive aftermarket companies (in press). *European Journal of International Management*. 2020. ISSN 1751-6757. doi:10.1504/EJIM.2020.10029429.

The Effectiveness of Reverse Logistics: the empirical test of its factors for product returns reduction

ŠKAPA, Radoslav and Alena KLAPALOVÁ. The Effectiveness of Reverse Logistics: the empirical test of its factors for product returns reduction. *Ekonomický časopis*. Bratislava: SAP - Slovak Academic Press, 2019, vol. 67, No 1, p. 86-104. ISSN 0013-3035.

Customer product returns — feedback and knowledge management

KLAPALOVÁ, Alena. Customer product returns — feedback and knowledge management. *Measuring Business Excellence*. 2019, vol. 23, No 2, p. 149-164. ISSN 1368-3047. doi:10.1108/MBE-11-2018-0099.

Employee-driven innovation and reverse supply chain management

KLAPALOVÁ, Alena. Employee-driven innovation and reverse supply chain management. *International Journal of Entrepreneurship and Innovation Management*. 2018, vol. 22, 4-5, p. 489-510. ISSN 1368-275X. doi:10.1504/IJEIM.2018.10013642.

Ing. Michal Kvasnička, Ph.D.

Do R&D Subsidies Support Innovation or Imitation? Evidence from Four EU Countries

STANĚK, Rostislav, Michal KVASNIČKA and Ondřej KRČÁL. Do R&D Subsidies Support Innovation or Imitation? Evidence from Four EU Countries. *Ekonomický časopis*. SAP - Slovak Academic Press, 2018, vol. 66, No 9, p. 909-924. ISSN 0013-3035.

Can we ignore spatial dependence when evaluating mergers?

KVASNIČKA, Michal. Can we ignore spatial dependence when evaluating mergers? *Empirical Economics*. HEIDELBERG: Springer-Verlag GmbH Germany, 2022, vol. 62, March, p. 1323-1344. ISSN 0377-7332. doi:10.1007/s00181-021-02055-x.

Is the Retail Gasoline Market Local or National?

KVASNIČKA, Michal, Rostislav STANĚK and Ondřej KRČÁL. Is the Retail Gasoline Market Local or National? *Journal of Industry, Competition and Trade*. Springer US, 2018, vol. 18, No 1, p. 47-58. ISSN 1566-1679. doi:10.1007/s10842-017-0249-0.

What Motivates Restaurant Customers to Tip: Evidence from the Czech Republic

KVASNIČKA, Michal. What Motivates Restaurant Customers to Tip: Evidence from the Czech Republic. *Acta Universitatis Agriculturae et Silviculturae Mendelianae Brunensis*. Brno: Mendel's University, 2018, vol. 66, No 1, p. 0273-0282. ISSN 1211-8516. doi:10.11118/actaun201866010273.

prof. RNDr. Luděk Matyska, CSc.

INDIGO-DataCloud: A platform to facilitate seamless access to e-infrastructures

SALOMONI, Davide, Luciano GAIDO, Isabel Campos PLASENCIA, Jesus E Marco de LUCAS, Peter SOLAGNA, Jorge GOMES, Luděk MATYSKA, P FUHRMAN, Marcus HARDT, Giacinto DONVITO, L DUTKA, Marcin PI o CIENNIK, Roberto BARBERA, Cristina AIFTIMIEI, Ignacio BLANQUER, Andrea CECCANTI, Mario DAVID, Alvaro Lopez GARCIA, German MOLTO, P ORVIZ, Zdeněk SUSTR, M VILJOEN, Fernando AGUILAR, L ALVES, Alexandre BONVING, Riccardo BRUNO, D DAVIDOVIC, Marco FARGETTA, Yen CHEN, Sandro FIORE, Z KURKCUOGLU, L LLORET, J MARTINS, Alessandra NUZZO, Paola NASSISI, J PINA, Eva SCIACCA, Daniele SPIGA, M TANGARO, Michal URBANIÁK, Bas WEGH and T ZOK. INDIGO-DataCloud: A platform to facilitate seamless access to e-infrastructures. *Journal of Grid Computing*. Springer Science+Business Media B.V., 2018, vol. 16, No 3, p. 381-408. ISSN 1570-7873. doi:10.1007/s10723-018-9453-3.

Common ELIXIR Service for Researcher Authentication and Authorisation

LINDEN, Mikael, Michal PROCHÁZKA, Ilkka LAPPALAINEN, Dominik František BUČÍK, Pavel VYSKOČIL, Martin KUBA, Sami SILÉN, Peter BELMANN, Alexander SCZYRBA, Steven NEWHOUSE, Luděk MATYSKA and Tommi NYRÖNEN. Common ELIXIR Service for Researcher Authentication and Authorisation. *F1000Research*. F1000 Research Ltd., 2018, vol. 7, No 2018, p. 1-16. ISSN 2046-1402. doi:10.12688/f1000research.15161.1.

RNDr. Petr Novotný, Ph.D.

Algorithmic Analysis of Qualitative and Quantitative Termination Problems for Affine Probabilistic Programs

CHATTERJEE, Krishnendu, Hongfei FU, Petr NOVOTNÝ and Rouzbeh HASHEMINEZHAD. Algorithmic Analysis of Qualitative and Quantitative Termination Problems for Affine Probabilistic Programs. *ACM TRANSACTIONS ON PROGRAMMING LANGUAGES AND SYSTEMS (TOPLAS)*. NEW YORK: ACM, 2018, vol. 40, No 2, 45 pp. ISSN 0164-0925. doi:10.1145/3174800.

Fuel in Markov Decision Processes (FiMDP): A Practical Approach to Consumption

BLAHOUEK, František, Murat CUBUKTEPE, Petr NOVOTNÝ, Melkior ORNIK, Pranay THANGEDA and Ufuk TOPCU. Fuel in Markov Decision Processes (FiMDP): A Practical Approach to Consumption. In *24th International Symposium on Formal Methods, FM 2021*. Cham, Switzerland: Springer, 2021. p. 640-656. ISBN 978-3-030-90869-0. doi:10.1007/978-3-030-90870-6_34.

On Lexicographic Proof Rules for Probabilistic Termination

CHATTERJEE, Krishnendu, Ehsan Kafshdar GOHARSHADY, Petr NOVOTNÝ, Jiří ZÁREVÚCKÝ and Djordje ŽIKELIĆ. On Lexicographic Proof Rules for Probabilistic Termination. In *24th International Symposium on Formal Methods, FM 2021*. Cham, Switzerland: Springer, 2021. p. 619-639. ISBN 978-3-030-90869-0. doi:10.1007/978-3-030-90870-6_33.

Reinforcement Learning of Risk-Constrained Policies in Markov Decision Processes

BRÁZDIL, Tomáš, Krishnendu CHATTERJEE, Petr NOVOTNÝ and Jiří VAHALA. Reinforcement Learning of Risk-Constrained Policies in Markov Decision Processes. In The Thirty-Fourth AAAI Conference on Artificial Intelligence, AAAI 2020. Palo Alto, California, USA: AAAI Press, 2020. p. 9794-9801. ISBN 978-1-57735-823-7. doi:10.1609/aaai.v34i06.6531.

On the Complexity of Value Iteration

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Mgr. Markéta Oplatková Plocková

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Mgr. Ing. Jan Žák

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Absolvované certifikace IPMA Level C, PMI PMP, Prince2 Practitioner, ITIL4 Foundation a Scrum Master.

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