Course descriptions

TABLE OF CONTENTS

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAMŠ+KMANM/2-MMN-111/15	Algorithms on Networks

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 2 / 2 **per level/semester:** 28 / 28
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 2.

Educational level: II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 170

A	B	C	D	E	FX
15,29	27,65	18,82	20,59	16,47	1,18

Lecturers: Mgr. Katarína Boďová, PhD.

Last change: 18.12.2018

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KMANM/2-MMN-104/18	Applied Functional Analysis (1)

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 2 / 2 **per level/semester:** 28 / 28
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 1.

Educational level: II.

Prerequisites:

Antirequisites: FMFI.KMANM/2-MMN-104/17

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 104

A	B	C	D	E	FX
5,77	14,42	18,27	23,08	31,73	6,73

Lecturers: doc. RNDr. Vladimír Toma, PhD.

Last change:

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KMANM/2-MMN-110/18	Applied Functional Analysis (2)

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 2 / 2 **per level/semester:** 28 / 28
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 2.

Educational level: II.

Prerequisites:

Antirequisites: FMFI.KMANM/2-MMN-110/17

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 89

A	B	C	D	E	FX
24,72	20,22	16,85	24,72	12,36	1,12

Lecturers: doc. RNDr. Vladimír Toma, PhD., prof. RNDr. Michal Fečkan, DrSc.

Last change:

Approved by:

STATE EXAM DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KMANM/2-MMN-955/15	**Course title:** Applied Mathematics and Statistics
Number of credits: 2	
Educational level: II.	
State exam syllabus:	
Last change: 05.11.2015	
Approved by:	

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI-FM.KEF/2-MMN-124/00	Banking

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 2 / 2 **per level/semester:** 28 / 28
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 1.

Educational level: II.

Prerequisites: FMFI-FM.KEF/2-MMN-107/00 - Financial Management

Course requirements:

Learning outcomes:

Class syllabus:
Brief Syllabus:
1. Significance of banking and its functions
- issue, distributional, redistributional, savings.
2. Basic types of banking systems
- one-stage, two-stage banking system.
3. Methods of banking systems
- universal, separate, mixed banking.
4. Representations, branches, subsidiaries of CB
- representation, branch, agency, subsidiary.
5. Banking in the EU
- EU's directives for the area of banking.
6. Regulatory organs in SR
- legislative – laws.
7. Capital of commercial bank
- TIER 1, TIER 2, TIER 3, - functions.
8. Basel's agreements about capital
- BASEL 1, BASEL2
9. The influence of Central bank on resources of commercial banks
- minimum reserves requirements, state bonds, treasuries.
10. European system of central banks
- ESCB, Eurosystem, ECB.
11. Retail banking
- bank clients, products, services, distribution.
12. Electronic banking
- types of products, block of products, advantages.
13. Firm's clientele

- segmentation, institutional clientele.

Recommended literature:
TKÁČOVÁ, Dana a kol.: Finančné trhy a bankovníctvo.
Praha: Wolters Kluwer, 2017. ISBN 978-80-7552-528-4
KANTNEROVÁ, Liběna: Základy bankovnictví. Teorie a praxe. Praha: C. H. Beck, 2016. ISBN 978-80-7400-595-4

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 212

A	B	C	D	E	FX
70,28	22,17	5,19	2,36	0,0	0,0

Lecturers: Mgr. Lucia Paškrtová, PhD.

Last change: 30.01.2021

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI-FM.KMn/2-MMN-221/00	Compensation Systems

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 2 / 2 **per level/semester:** 28 / 28
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 3.

Educational level: II.

Prerequisites:

Course requirements:
During the course students work on a complex case study, in which they are asked to make decisions required to manage compensation systems for an organization called FastCat. Students will work in teams consisting of 4-5 members and prepare a team report for each case phase, as well as a presentation of their key decisions and results supported by proper argumentation
Class performance is determined as follows:
FastCat Case Reports + Presentations
FastCat Strategy Statement (team) 10%
Phase 1: Compensation Strategy and Work Structure (team) 15%
Phase 2: Competitive Market Pay and the Pay Structure (team) 15%
Phase 3: Employee Contributions and Pay Increases/Administration (team) 15%
Group Evaluation 10%
In-class activities (or short presentations) 5%
Final Exam (during the exam period) 30%
Scale of assessment (preliminary/final): 70/30

Learning outcomes:
Students are familiarized with the basics of compensation systems, compensable factors, job evaluation methods, pay forms and pay systems. Techniques of creating compensation system in an organization are practiced on FastCat case study.

Class syllabus:
Pay System.
Compensation Strategy.
Internal Alignment.
External Equity.
Compensation Forms.
Relation between Compensation and Motivation.
Employee's Benefits.
Role of Labor Unions in Creating a Compensation System.
International Compensation.

Recommended literature:

1. Newman, J., Gerhart, B., Milkovich, G. 2017. Compensation. 12th edition. New York : McGraw-Hill. https://alis.uniba.sk:8443/lib/item?id=chamo:638100&fromLocationLink=false&theme=Katalog
2. Milkovich, G., Gerhard, B. 2013. Cases in Compensation. 11th edition. ISBN 978-0-945601-00-5
3. Bajzíková, Ľ., Fratričová, J. 2019. Základy personálneho manažmentu: Akademicko-praktický sprievodca v oblastiach manažmentu pracovných výkonov, pracovnej motivácie a odmeňovania. Bratislava: Univerzita Komenského. https://alis.uniba.sk:8443/lib/item?id=chamo:694002&fromLocationLink=false&theme=Katalog

Languages necessary to complete the course:
English

Notes:

Past grade distribution
Total number of evaluated students: 21

A	B	C	D	E	FX
52,38	38,1	4,76	0,0	4,76	0,0

Lecturers: prof. Ing. Ľubica Bajzíková, PhD., Mgr. Zuzana Kirchmayer, PhD.

Last change: 10.09.2020

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAG/2-MMN-132/00	Computer Graphics (1)

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 2 / 2 **per level/semester:** 28 / 28
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 1.

Educational level: II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 260

A	B	C	D	E	FX
39,23	28,85	21,54	7,31	1,15	1,92

Lecturers: doc. RNDr. Andrej Ferko, PhD.

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAG/2-MMN-133/00	Computer Graphics (2)

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 2 / 2 **per level/semester:** 28 / 28
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 2.

Educational level: II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 130

A	B	C	D	E	FX
30,77	26,15	19,23	8,46	14,62	0,77

Lecturers: doc. RNDr. Andrej Ferko, PhD.

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAMŠ/2-MMN-106/15	Computer Statistics

Educational activities:
Type of activities: course
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 1.

Educational level: II.

Prerequisites:

Antirequisites: FMFI.KAMŠ/2-MMN-106/00

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 152

A	B	C	D	E	FX
9,21	25,0	23,03	26,32	15,79	0,66

Lecturers: doc. Mgr. Ján Mačutek, PhD.

Last change: 18.09.2020

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI-FM.KIS/2-MMN-136/12	Data Processing for Management and Marketing (Data Mining I)

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 2.

Educational level: II.

Prerequisites: FMFI.KMANM/2-MMN-138/18 - Multidimensional Methods in Management (SAS)

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 52

A	B	C	D	E	FX
17,31	34,62	38,46	5,77	0,0	3,85

Lecturers: doc. Ing. Iveta Stankovičová, PhD.

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI-FM.KIS/2-MMN-236/12	Data Processing for Management and Marketing (Data Mining II)

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 3.

Educational level: II.

Prerequisites: FMFI.KMANM/2-MMN-138/18 - Multidimensional Methods in Management (SAS)

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 32

A	B	C	D	E	FX
40,63	53,13	6,25	0,0	0,0	0,0

Lecturers: doc. Ing. Iveta Stankovičová, PhD.

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KMANM/2-MMN-203/00	Decision Techniques in Management

Educational activities:
Type of activities: lecture
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 3.

Educational level: II.

Prerequisites:

Course requirements:
Scale of assessment (preliminary/final): 40/60

Learning outcomes:

Class syllabus:
Deterministic and stochastic decision analysis in the choice of the best alternative. Models of inventory management. Classification and basic characteristics of waiting line models. Managing projects using critical path method. Practical solution of production management problems by linear programming methods.

Recommended literature:
W. L. Winston, S. C. Albright: Practical Management Science: Spreadsheet Modeling and Application (Duxbury Press, 1997).
Anderson, Sweeney, Williams: Contemporary Management Sciense with Spreadsheets, ITP, South-Western College Publ., 1999.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 364

A	B	C	D	E	FX
54,4	12,64	15,11	3,57	14,01	0,27

Lecturers: doc. RNDr. Vladimír Toma, PhD.

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KMANM/2-MMN-910/00	Diploma Thesis (1)

Educational activities:
Type of activities:
Number of hours:
per week: **per level/semester:**
Form of the course: on-site learning

Number of credits: 4

Recommended semester: 3.

Educational level: II.

Prerequisites:

Course requirements:
Scale of assessment (preliminary/final): 100/0

Learning outcomes:

Class syllabus:
Searching and studying in literature (books and journals) following the type of problem solved.

Recommended literature:
Relevant to the problem solved.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 369

A	B	C	D	E	FX
80,49	11,92	5,42	1,63	0,54	0,0

Lecturers:

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KMANM/2-MMN-911/15	Diploma Thesis (2)

Educational activities:
Type of activities:
Number of hours:
per week: **per level/semester:**
Form of the course: on-site learning

Number of credits: 12

Recommended semester: 4.

Educational level: II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 142

A	B	C	D	E	FX
88,03	6,34	1,41	2,11	1,41	0,7

Lecturers:

Last change: 02.06.2015

Approved by:

STATE EXAM DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KMANM/2-MMN-991/15	**Course title:** Diploma Thesis Defense
Number of credits: 2	
Educational level: II.	
State exam syllabus:	
Last change: 02.06.2015	
Approved by:	

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KMANM/2-MMN-920/15	Diploma Thesis Seminar (1)

Educational activities:
Type of activities: seminar
Number of hours:
per week: 1 **per level/semester:** 14
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 2.

Educational level: II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 144

A	B	C	D	E	FX
93,06	3,47	1,39	0,69	1,39	0,0

Lecturers: doc. RNDr. Vladimír Toma, PhD.

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KMANM/2-MMN-921/00	Diploma Thesis Seminar (2)

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 3.

Educational level: II.

Prerequisites:

Course requirements:
Scale of assessment (preliminary/final): 100/0

Learning outcomes:

Class syllabus:
Every student must make at least one presentation of his results and of the state of art of his diploma thesis. To answer questions and comments made by the teacher and other participants on the seminar.

Recommended literature:
Základnú literatúru doporučí vedúci diplomovej práce.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 370

A	B	C	D	E	FX
82,97	10,0	4,86	1,35	0,81	0,0

Lecturers: doc. RNDr. Vladimír Toma, PhD.

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KMANM/2-MMN-922/00	Diploma Thesis Seminar (3)

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 4.

Educational level: II.

Prerequisites:

Course requirements:
Scale of assessment (preliminary/final): 100/0

Learning outcomes:

Class syllabus:
The syllabus from the first semester is completed following the the needs of concrete diploma thesis.

Recommended literature:
Literature from the first term is competed following the dipploma theses and its finishing needs.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 369

A	B	C	D	E	FX
88,62	6,78	2,17	1,63	0,54	0,27

Lecturers: doc. RNDr. Vladimír Toma, PhD.

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI-FM.KIS/2-MMN-205/00	E-business and E-market

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 3.

Educational level: II.

Prerequisites:

Course requirements:
Scale of assessment (preliminary/final): 100/0

Learning outcomes:

Class syllabus:
Technology-enabled business transformation, alignment of business and IT, approaches to strategy creation, SWOT analysis, senior management presentations. IT governance, risk management, reporting structure. Software economics, cost management, ROI, time to pay back, outsourcing, utility computing, business and IT metrics, balanced scorecards. Enterprise computing, middleware, business applications (ERP, SCM, CRM, CMS). Systems architecture, components, packages, reuse, open source. Systems integration, database federation, reliable messaging, web-services, SOA, ESB. Case studies based on small and large organisations use of e-business techniques and technology. Internet as a marketing tool. Application of marketing elements in Internet environment. Benefits of Internet for marketing. We are entering the Internet. Intensity of need to participate on Internet. Goals of firm's presence on Internet. Suitability of products. How to attain the set goals effectively? Value of a web page. Value. Value models of web pages. Choice of value model. Promotion on Internet. Basic terminology. Categories and trends of internet advertising. Carriers of internet ads. Introducing search systems. Banner advertising. Other forms of advertising on the Net. Advertising networks. Promotion OFF-LINE. One-to-One marketing. Process of one-to-one marketing. Personalization of internet pages. Benefits of personalization. Customer support. Case study: Promotion of web pages.

Recommended literature:
Fellenstein, C., Wood, R.: Exploring E-commerce, Global E-business, and E-societies, Prentice Hall PTR, 2000
Turban E., Leidner D., McLean E., Wetherbe J., Information Technology for Management: Transforming Organizations in the Digital Economy, 5th Edition, Wiley, New York 2006. ISBN: 978-0-471-70522-2
Knight P., Vysoce efektivní marketingový plán, Grada, Praha 2007, ISBN 978-80-247-1999-3

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 126

A	B	C	D	E	FX
92,86	5,56	0,0	0,79	0,0	0,79

Lecturers: Ing. Jaroslav Vojtechovský, PhD., Mgr. Eva Poráziková

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAMŠ/1-EFM-380/00	Econometrics

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 2 / 2 **per level/semester:** 28 / 28
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 2.

Educational level: I., II.

Prerequisites: FMFI.KAMŠ/1-EFM-330/00 - Statistical Methods and leboFMFI.KAMŠ/2-MMN-106/15 - Computer Statistics and leboFMFI.KAMŠ/2-PMS-107/15 - Regression Models and leboFMFI.KAMŠ/1-DAV-201/20 - Fundamentals of Probability and Statistics and leboFMFI.KAMŠ/1-PMA-510/00 - Basics of Mathematical Statistics

Course requirements:
Scale of assessment (preliminary/final): 30/70

Learning outcomes:

Class syllabus:
General framework of model building in the applications. Classical linear regression model. Methods of parameter estimation and their properties. Ordinary Least Squares method and theory. Regression diagnostics. Stochastic specification and classical assumptions of the linear regression model. Inference in the linear regression model. Violating assumptions in the classical linear regression model, detection and correction: heteroskedasticity and autocorrelation. Generalized least squares method. Multikollinearity. Stochastic regressors, autoregression. Instrumental variables method. Introduction to simultaneous equations. Qualitative variables, logistic regression. Overview of other methods.

Recommended literature:
Faraway, J. J., Linear models with R, Chapman&Hall/CRC, 2005.
Johnston, J. and DiNardo, J., Econometric methods, McGraw&Hill, 4-th. ed, 1997.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 1090

A	B	C	D	E	FX
27,52	15,14	18,72	17,16	17,98	3,49

Lecturers: Mgr. Ján Somorčík, PhD., Mgr. Samuel Rosa, PhD.

Last change: 12.10.2016

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAMŠ/2-EFM-125/00	Economics of Information

Educational activities:
Type of activities: lecture
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 4.

Educational level: II.

Prerequisites:

Course requirements:
Scale of assessment (preliminary/final): 50/50

Learning outcomes:

Class syllabus:
Classes of models with asymmetric information. Subjective risk with hidden action or hidden information. Adverse selection. Mechanism design and post-contractual hidden knowledge. Signalling and detection.

Recommended literature:
E. Rasmusen: Games and Information, An Introduction to Game Theory, 4th Edition. Blackwell Publishers, 2006
Mas-Collel, Whinston, Green: Microeconomic Analysis. Oxford University Press, 1995
Fudenberg , Tirole: Game Theory. MIT Press,1998

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 236

A	B	C	D	E	FX
99,15	0,0	0,0	0,0	0,0	0,85

Lecturers: doc. RNDr. Ján Pekár, PhD.

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI-FM.KEF/2-MMN-112/00	Economy Processes Modelling

Educational activities:
Type of activities: lecture / laboratory practicals
Number of hours:
per week: 2 / 2 **per level/semester:** 28 / 28
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 2.

Educational level: II.

Prerequisites:

Recommended prerequisites:
Conversion of subjects: statistics, statistical methods, if the student has only one semester of statistics, he / she must complete the subject of the managerial statistics

Course requirements:
Continuous assessment: test, independent work
Exam: Exam
Scale of assessment (preliminary/final): 30/70

Learning outcomes:
Time series analysis, modeling of economic dynamics, valuation of financial derivatives using Mathematica.

Class syllabus:
Stacionary models of time series ARMA(p,q), kovariance and korrelation function, parcial korrelation function. Nonstacionary and seazon models of time series. The preparation of data on time series analysis by Box – Jenkinson methodology, transformation of data. Choice kovariance, korrelation and partial korrelation function and they usage in model identification of time series. Parameters estimation of a model and the test of its accuracy. Usage of a time series madel on the prognostics of its future values. Difusion processes in finance mathematics, Black-Scholes and Mertonova analysis and odvodenie deriving the finance derivativs.valuation equation. Solution of Black-Scholes equation in the case of call a put options, dividends paying shares ooptions, forwards, futures; exotic and barier options. Numeric solution of finance mathematcs problems – finance trees American options as problems with free boundary for Black-Scholes equation. Numeric methods American options valuation. Diskrete ans continuous models of ekonomic dynamics. Solving and the stability of ekonomic dynamics models.

Recommended literature:
Jozef Komorník - Magda Komorníková - Karol Mikula: Modelovanie ekonomických a finančných procesov. FM UK, Bratislava 1998.
Hal. R. Varian: Economic and Financial Modeling with Mathematica. Springer-Verlag, New York 1993.

Peter Ritchken: Options: Theory, Strategy and Applications. Scott, Foresman and Comp., USA 1987.
T. Cipra: Analýza časových řad s aplikacemi v ekonomii. SNTL / Alfa, Praha (1986).

Languages necessary to complete the course:
English

Notes:

Past grade distribution
Total number of evaluated students: 404

A	B	C	D	E	FX
49,01	26,73	17,33	4,95	1,98	0,0

Lecturers: doc. Ing. Mgr. Urban Kováč, PhD.

Last change: 14.03.2018

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJP/1-MXX-233/13	English Conversation Course (1)

Educational activities:
Type of activities: practicals
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 1., 3.

Educational level: I., II.

Prerequisites:

Course requirements:
Scale of assessment (preliminary/final): 100/0

Learning outcomes:

Class syllabus:
The content of the course is general English.
The language level is B2/C1 (Upper-Intermediate/Lower Advanced).

Recommended literature:
Selection of materials from Inside Out Upper-Intermediate, Cutting Edge Upper-Intermediate, New English File Upper-Intermediate, British and American newspapers and journals
Recordings: authentic and semi-authentic (source: BBC, CNN, coursebook recordings)

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 193

A	B	C	D	E	FX
65,28	13,99	7,25	2,07	1,55	9,84

Lecturers: PhDr. Elena Klátiková, Mgr. Aneta Barnes

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJP/1-MXX-234/13	English Conversation Course (2)

Educational activities:
Type of activities: practicals
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 2., 4.

Educational level: I., II.

Prerequisites:

Course requirements:
Scale of assessment (preliminary/final): 100/0

Learning outcomes:

Class syllabus:
The course is a follow-up to the Conversation Course in English (1). The content of the course is general English.
The language level is B2/C1 (Upper-Intermediate/Lower Advanced).

Recommended literature:
Selection of materials from Inside Out Upper-Intermediate, Cutting Edge Upper-Intermediate, New English File Upper-Intermediate, British and American newspapers and journals
Recordings: authentic and semi-authentic (source: BBC, CNN, coursebook recordings)

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 118

A	B	C	D	E	FX
73,73	15,25	4,24	0,85	0,0	5,93

Lecturers: PhDr. Elena Klátiková, Mgr. Aneta Barnes

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KMANM/2-MMN-130/15	Finance and Insurance Mathematics in MS-Excel

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 2.

Educational level: II.

Prerequisites:

Antirequisites: FMFI.KMANM/2-MMN-130/00

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 145

A	B	C	D	E	FX
84,14	5,52	4,14	6,21	0,0	0,0

Lecturers: RNDr. Peter Švaňa, CSc.

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI-FM.KEF/2-MMN-224/10	**Course title:** Financial Accounting and Analysis
Educational activities: **Type of activities:** lecture / practicals **Number of hours:** **per week:** 2 / 2 **per level/semester:** 28 / 28 **Form of the course:** on-site learning	
Number of credits: 5	
Recommended semester: 3.	
Educational level: II.	
Prerequisites:	
Course requirements: Scale of assessment (preliminary/final): 50/50	
Learning outcomes: The aim of the subject is to explain the nature and methodology of keeping an enterprise's accounting as part of the enterprise information system	
Class syllabus: Accounting as part of the enterprise information system. Functions and basic structure of accounting. Account information users. Property scroll and its display in accounting. Valuation of assets and liabilities in accounting. Financial Statements and Financial Statements. Basic company accounts (balance sheet, profit and loss statements). Cash flow management. Business liquidity management. Fundamentals of financial analysis. Analysis of financial statements. Analysis of financial statements and their use by different users.	
Recommended literature: [1] SAXUNOVÁ, D. 2019. Financial Statements for the Needs of Managers -Global Accounting Standards : US GAAP and IFRS. Prague : Wolters Kluwer, 2019. [2] Internetové zdroje na webových sídlach: www.ifrs.org, www.fasb.org. [3] Stickney, Weil – Financial Accounting and Analysis – theory, analysis and interpretations, 13th edition, 2010 [4] Kimmel, Weyghand, Kieso - Financial Accounting - Tool for decision making, 2015 Wiley or latest edition	
Languages necessary to complete the course: English	
Notes:	

Past grade distribution
Total number of evaluated students: 16

A	B	C	D	E	FX
31,25	37,5	12,5	12,5	6,25	0,0

Lecturers: prof. RNDr. Darina Saxunová, PhD.

Last change: 19.01.2021

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI-FM.KEF/2-MMN-107/00	**Course title:** Financial Management
Educational activities: **Type of activities:** lecture / practicals **Number of hours:** **per week:** 2 / 2 **per level/semester:** 28 / 28 **Form of the course:** on-site learning	
Number of credits: 5	
Recommended semester: 1.	
Educational level: II.	
Prerequisites:	
Course requirements: Scale of assessment (preliminary/final): 30/70	
Learning outcomes:	
Class syllabus: EN Brief Syllabus: Analysis of project's cash flows: factors, which influence project's cash flows, value of project's managerial option, evaluation of projects with different life cycles, optimal economic project life cycle, inflation influences on project's cash flows. Risk analysis and optimal capital budgeting: project's risk, sensitivity analysis and potential scenarios analysis, simulation Monte Carlo, decision trees, optimal capital budget, rationalization of capital. Long-term financial planning: formal financial statements – method of steady state ratio, formula for calculation of supplementary financial resources. Linear and nonlinear prognostic models, financial control system. Introduction into theory and practice of capital structures: business risks and influencing factors, financial risk, basic theories of capital structures, optimal capital structure. Dividend policy: theories of investor's preferences, residual dividend model, practical dividend policy and influencing factors. Sources of long-term financing: stock markets, organized bourses and OTC markets, transaction types on stock markets, advantages and disadvantages of common stocks, process of investment banking, bonds and their rating, advantages and disadvantages of financing from foreign sources, basic characteristic of leasing, advantages of leasing financing, preferred stocks – advantages and disadvantages, warrants, convertible bonds. Short-term assets management: working capital, alternative investment policies of financing short-term assets, working capital and economic added value. Management of finance in form of cash: cash cycle, resources and use of cash, cash budgeting. Management of inventories and management of accounts receivable: inventories and expenses for their holding, examples of inventory management systems, accounts receivable analysis, accounts receivable monitoring, financial and other analysis of customer, debt recovery, discount for customers, the change of payment conditions. Short-term financing: assets financing– aggressive and conservative approach, alternatives of current assets financing, resources of short-term financing, business loan and its costs. Short-term financing – common bank loans: techniques for loans, forms of loan securities, banking loans and their price,	

criteria for choice of bank. Short-term financing – bills of exchange, factoring: functions of bill of exchange, significant necessities of own and foreign bill of exchange, types of factoring, advantages and disadvantages of factoring. Cash conversion cycle: conversion cycle, Baumol's model, optimal cash transfer, simulation Monte Carlo and safety level for cash, cash budget. Estimation of optimal level of inventories: inventory pricing methods, optimal size of order, discount and sensitivity analysis.

Recommended literature:

Normative arrangements concerning firm's activities on different hierarchic levels.
Recent specialized journals.
Brealey R. A. – Myers J, C.: Teorie a praxe firemních financií, Victoria Publishing, Praha 1993 / vybrané state/.

Languages necessary to complete the course:

English

Notes:

Past grade distribution

Total number of evaluated students: 395

A	B	C	D	E	FX
22,03	30,89	20,76	15,19	9,87	1,27

Lecturers: Mgr. Ján Smoleň, PhD.

Last change: 19.09.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJP/1-MXX-141/00	French Language (1)

Educational activities:
Type of activities: practicals
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 1.

Educational level: I., II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
French language is taught at two levels: beginner and intermediate. Students opt for one of them depending on whether they wish to obtain the fundamentals of the language or wish to maintain and/or improve previous knowledge of French.

Recommended literature:
Pravda, Pravdová: Učebnica francúzštiny pre samoukov a kurzy, SPN Bratislava 1999, ISBN 80-08-00431-2

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 421

A	B	C	D	E	FX
45,13	20,43	19,48	9,03	1,9	4,04

Lecturers: Mgr. Ľubomíra Kožehubová

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJP/1-MXX-142/00	French Language (2)

Educational activities:
Type of activities: practicals
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 2.

Educational level: I., II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
The subject continues the program of French language (1) and provides courses of essential and intermediate French language.

Recommended literature:
Pravda, Pravdová: Učebnica francúzštiny pre samoukov a kurzy, SPN Bratislava 1999, ISBN 80-08-00431-2
Blažena Srncová: Učebnica francúzštiny pre študentov Matematicko-fyzikálnej fakulty , UK 1983
Kolektív Lingea, s.r.o.: Slovensko-francúzsky hovorník, Bratislava 2008

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 259

A	B	C	D	E	FX
38,22	25,87	20,08	10,42	2,7	2,7

Lecturers: Mgr. Ľubomíra Kožehubová

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJP/1-MXX-241/00	French Language (3)

Educational activities:
Type of activities: practicals
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 3.

Educational level: I., II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
The subject provides a course of intermediate French language, covering not only general, but also technical language.

Recommended literature:
Pravda, Pravdová: Učebnica francúzštiny pre samoukov a kurzy, SPN Bratislava 1999, ISBN 80-08-00431-2
Blažena Srncová: Učebnica francúzštiny pre študentov Matematicko-fyzikálnej fakulty , UK 1983
Kolektív Lingea, s.r.o.: Slovensko-francúzsky hovorník, Bratislava 2008

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 101

A	B	C	D	E	FX
37,62	28,71	21,78	6,93	0,99	3,96

Lecturers: Mgr. Ľubomíra Kožehubová

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJP/1-MXX-242/00	French Language (4)

Educational activities:
Type of activities: practicals
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 4.

Educational level: I., II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
The subject provides a course of intermediate French covering not only general, but also technical French language.

Recommended literature:
Pravda, Pravdová: Učebnica francúzštiny pre samoukov a kurzy, SPN Bratislava 1999, ISBN 80-08-00431-2
Blažena Srncová: Učebnica francúzštiny pre študentov Matematicko-fyzikálnej fakulty , UK 1983
Kolektív Lingea, s.r.o.: Slovensko-francúzsky hovorník, Bratislava 2008
Zarha Lahmidi: Sciences-techniques.com, ISBN 209-0331186-0, CLE international, 2005

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 71

A	B	C	D	E	FX
39,44	33,8	18,31	2,82	1,41	4,23

Lecturers: Mgr. Ľubomíra Kožehubová

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJP/1-MXX-151/00	German Language (1)

Educational activities:
Type of activities: practicals
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 1.

Educational level: I., II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
German language is taught at three levels: beginner, intermediate and advanced. Students opt for one of them depending on whether they need to learn the fundamentals or maintain and/or improve their previous knowledge.

Recommended literature:
Vilášek, P.: Nemčina pre študentov FMFI, Na webovej stránke autora v elektronickej podobe.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 717

A	B	C	D	E	FX
35,43	27,62	19,8	9,21	2,79	5,16

Lecturers: Mgr. Alexandra Maďarová, Mgr. Marián Mancovič

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJP/1-MXX-152/00	German Language (2)

Educational activities:
Type of activities: practicals
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 2.

Educational level: I., II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
The course continues the program of German language (1). German language is taught at three levels: beginner, intermediate, advanced.

Recommended literature:
Vilášek, P.: Nemčina pre študentov FMFI, Na webovej stránke autora v elektronickej podobe.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 468

A	B	C	D	E	FX
35,47	20,51	20,73	13,46	3,42	6,41

Lecturers: Mgr. Alexandra Maďarová

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJP/1-MXX-251/00	German Language (3)

Educational activities:
Type of activities: practicals
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 3.

Educational level: I., II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
The subject continues the program of German language (2). It provides a course of intermediate and advanced German language.

Recommended literature:
Vilášek, P.: Nemčina pre študentov FMFI, Na webovej stránke autora v elektronickej podobe.
Aus moderner Technik und Naturwissenschaft, 1999, Max Hueber Verlag, D-85737, ISBN 3-19-001629-1

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 158

A	B	C	D	E	FX
39,24	26,58	21,52	6,96	2,53	3,16

Lecturers: Mgr. Alexandra Maďarová

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJP/1-MXX-252/00	German Language (4)

Educational activities:
Type of activities: practicals
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 4.

Educational level: I., II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
The subject continues the program of German language (3). It provides a course of intermediate and advanced German language.

Recommended literature:
Vilášek, P.: Nemčina pre študentov FMFI, Na webovej stránke autora v elektronickej podobe.
Vilma Václavíková: Nemčina pre študentov MFF UK, Vysokoškolský učebný text pre potrebu študentov KJP, č. 9793/1982 C VIII/2, 1983

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 85

A	B	C	D	E	FX
40,0	25,88	12,94	11,76	3,53	5,88

Lecturers: Mgr. Alexandra Maďarová

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAMŠ/2-EFM-126/00	Industrial Organization

Educational activities:
Type of activities: lecture
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 4.

Educational level: II.

Prerequisites:

Course requirements:
Scale of assessment (preliminary/final): 40/60

Learning outcomes:

Class syllabus:
Marker structure and competition: perfect competition; monopoly; oligopoly; costs.
Obstacles in entering the market, fusions. Vertical obstacles and vertical connecting.
Firms' entering to market, leaving market, obstacles by entering.
Strategies of price determination and product differentiation.
Fusions, cartels, agreements.
Research and development: investments to research and development, licences.
Advertisement. Marketing strategies. Quality and endurance of products.

Recommended literature:
Shy, Oz Industrial Organization, MIT Press 1998

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 209

A	B	C	D	E	FX
97,13	2,39	0,0	0,0	0,0	0,48

Lecturers: doc. RNDr. Ján Pekár, PhD.

Last change: 18.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI-FM.KEF/2-MMN-222/00	Investment Analysis

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 2 / 2 **per level/semester:** 28 / 28
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 3.

Educational level: II.

Prerequisites:

Course requirements:
Scale of assessment (preliminary/final): 40/60

Learning outcomes:
The aim of the subject is to deepen student's knowledge about financial markets, its problems and risks, as well as about some products, which are tradeable at those markets. The purpose of the course is also familiarization of basic methods and techniques of investing to stocks and bonds.

Class syllabus:
International financial management: purchasing power parity, unsecured interest rate parity, term parity, covered interest rate parity, yield of investment in foreign country, effect of global diversification, examples of global investment strategies, financial markets correlation.
Acquisition and mergers: some reasons for acquisitions and mergers, tactics and defence during mergers and acquisitions, forms of business combinations, structure of supply for take over, tasks of investment banks during mergers and acquisitions.
Financial risks: types of financial risks, value at risk (VaR), measurement of interest risk by VaR, surveying of interest positions, VaR and diversification effects, VaR of investment portfolios, project's impact on VaR, cash-flow at risk (CaR).
Financial derivates and hedging of risks: basic types of financial derivates, standardization of financial derivates, long- and short- position, term-contracts pricing, hedging of open positions, risk factors, examples of complicated hedging techniques, option parity, replication of option position, option pricing methods, riskless arbitrage, dynamic data-hedging, sensitivity parameters, interest and currency swap.
Duration and immunization: yield curves and interest structures, Macaulay duration, present value effect and reinvesting effect while investing to bonds, modified duration, effective duration and key-rate duration, immunization of open bond positions.

Recommended literature:
Brigham, E. F., Ehrhardt, M. C.: Financial Management, 11th Edition, Thomson, South-Western, 2005
Z.S. Blaha, I. Jindřichovská: "Opce, swapy, futures - deriváty finančního trhu", 2. vydanie, Management Press, Praha 1997, ISBN: 80-85943-29-8

Prednáška "Investičné analýzy"
Odporúčaná:
Brealey, R. A., Myers, S. C.: Principles of Corporate Finance, 7th Edition, McGraw Hill, 2003

Languages necessary to complete the course:
English

Notes:

Past grade distribution
Total number of evaluated students: 94

A	B	C	D	E	FX
24,47	24,47	21,28	10,64	19,15	0,0

Lecturers: prof. RNDr. Ing. Ľudomír Šlahor, CSc., Mgr. Martina Jurčíková Romanová, PhDr. Daniela Majerčáková, PhD., MBA

Last change: 09.03.2018

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI-FM.KIS/2-MMN-129/00	Management Information Systems

Educational activities:
Type of activities: lecture / seminar
Number of hours:
per week: 2 / 2 **per level/semester:** 28 / 28
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 4.

Educational level: II.

Prerequisites:

Course requirements:
Scale of assessment (preliminary/final): 60/40

Learning outcomes:

Class syllabus:
- The Challenge and Strategic Role of Information Systems
- Organizational Foundations of Information Systems
- Information Systems Implementation
- The Role of the Information System in Promoting Quality
- Building Information Systems: Contemporary Approaches
- Management and Organizational Support Systems
- Managing Contemporary Information Systems

Recommended literature:
Laudon J.P., Laudon K.C., Management Information Systems & Multimedia Student CD Package, 10/E, ISBN-10: 0132337746, ISBN-13: 9780132337748, Prentice Hall, New York 2007
James A. O'Brien, Management Information Systems, 7/e, McGraw-Hill Higher Education, Boston 2006, ISBN: 007293588x

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 14

A	B	C	D	E	FX
28,57	7,14	42,86	21,43	0,0	0,0

Lecturers: prof. RNDr. Michal Greguš, PhD., doc. Ing. Jaroslava Kniežová, PhD., Mgr. Július Selecký, PhD.

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI-FM.KEF/2-MMN-126/18	Managerial Accounting

Educational activities:
Type of activities: lecture
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 2.

Educational level: II.

Prerequisites:

Antirequisites: FMFI-FM.KEF/2-MMN-126/00

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 34

A	B	C	D	E	FX
55,88	14,71	20,59	2,94	2,94	2,94

Lecturers: prof. RNDr. Darina Saxunová, PhD., Mgr. Lenka Papíková, PhD.

Last change:

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI-FM.KSP/2-MMN-125/00	**Course title:** Managerial Decision-Making

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 2 / 2 **per level/semester:** 28 / 28
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 2.

Educational level: II.

Prerequisites:

Recommended prerequisites:
Finished bachelor degree.

Course requirements:
The overall evaluation is in accordance with the faculty evaluation system: A = 91-100%; B = 81 90%; C = 73-80%; D = 66-72%; E = 65-60%; F = 0-59%.
Scale of assessment (preliminary/final): Ongoing: 40% / Exam: 60%. The exam consists of the written mid-term exam during the semester 30% and of the final exam during the examination period 30%.

Learning outcomes:
KAHNEMAN, Daniel: Thinking, Fast and Slow. NY : Farrar, Straus and Giroux, 2011. 499 p. ISBN 978-0-374-53355-7.
MONAHAN, George. Management Decision Making. Cambridge : Cambridge University Press, 2007. ISBN 978-0-521-78118-3.
GRÜNIG, Rudolf – KÜHN, Richard: Successful Decision-making : A Systematic Approach to Complex Problems. 1st ed. Berlin : Springer, 2005. 231 p. ISBN 3-540-24307-0.
HUBER, George. Managerial Decision Making. 1st ed. Glenview : Scott, Foresman and Company, 1980. 228 p. ISBN 0-673-15141-7.
GÁL, Peter – HOLIENKA, Marian – HOLIENKOVÁ, Jana – Decision-making of student entrepreneurs: positive, creative, fast, and simultaneously wise. In: International conference on Decision making for small and medium-sized enterprises : Conference proceedings. Karvina : Slezska univerzita v Opave, 2019. s. 88-95 [online]. ISBN 978-80-7510-339-0.
GÁL, Peter: Marketing Implications of Framing in the Decision#Making, In: Acta Univ. Agric. Silvic. Mendel. Brun, 2018, 66(5): 1267 – 1273, doi: 10.11118/actaun201866051267.
GÁL, Peter – MRVA, Miloš – GAJDOŠOVÁ, Zuzana: The cognitive reflection test and the propensity to use heuristics in decision making. In: Comenius Management Review, roč. 8, č. 2 (2014), s. 29-40. ISSN 1337-6721.
GÁL, Peter – MRVA, Miloš – MEŠKO, Matej: Heuristics, biases and traps in managerial decision making. In: Acta Univ. Agric. Silvic. Mendel. Brun, 2013, 61(7), 2117-2122; ISSN 1211-8516. doi:10.11118/actaun201361072117.

MRVA, Miloš – GÁL, Peter – MEŠKO, Matej – MARCIN, Peter: Heuristics in the Process of Decision-Making. In: Comenius Management Review, vol. 7, nr. 2 (2013), p. 28-40. ISSN 1337-6721.
Harvard Business Review on Decision Making. Boston : Harvard Business School Press, 2001. 200 p. ISBN 978-1-57851-557-8.
Other articles / studies distributed throughout the semester to individual problem areas. The minimum condition is the possibility of student access to the internet through the Comenius University network.

Class syllabus:

1. Introduction into the subject. Decision-making in management. The nature of managerial decision-making. The decision-making process.
2. The rational approaches in the managerial decision-making. Methods and approaches of the decision-making under certainty, uncertainty and risk. The sequence of decisions and decision trees.
3. The psychological aspect of managerial decision-making. The two systems in us. The heuristics of anchoring, availability and representativeness. The prospect theory. The irrational types of choices. The limits of the human mind.
4. The group decision making. Defining the group's assignment, planning and organizing the overall group effort and staffing the decision group. Directing and controlling the group meeting. The creative methods and techniques of group decision-making.

Recommended literature:

KAHNEMAN, Daniel: Thinking, Fast and Slow. NY : Farrar, Straus and Giroux, 2011. 499 p. ISBN 978-0-374-53355-7.
MONAHAN, George. Management Decision Making. Cambridge : Cambridge University Press, 2007. ISBN 978-0-521-78118-3.
GRÜNIG, Rudolf – KÜHN, Richard: Successful Decision-making : A Systematic Approach to Complex Problems. 1st ed. Berlin : Springer, 2005. 231 p. ISBN 3-540-24307-0.
HUBER, George. Managerial Decision Making. 1st ed. Glenview : Scott, Foresman and Company, 1980. 228 p. ISBN 0-673-15141-7.
GÁL, Peter – MRVA, Miloš – MEŠKO, Matej: Heuristics, biases and traps in managerial decision making. In: Acta Univ. Agric. Silvic. Mendel. Brun, 2013, 61(7), 2117-2122; ISSN 1211-8516. doi:10.11118/actaun201361072117.
MRVA, Miloš – GÁL, Peter – MEŠKO, Matej – MARCIN, Peter: Heuristics in the Process of Decision-Making. In: Comenius Management Review, vol. 7, nr. 2 (2013), p. 28-40. ISSN 1337-6721.
Harvard Business Review on Decision Making. Boston : Harvard Business School Press, 2001. 200 p. ISBN 978-1-57851-557-8.
Other articles / studies distributed throughout the semester to individual problem areas. The minimum condition is the possibility of student access to the internet through the Comenius University network.

Languages necessary to complete the course:

Slovak / English

Notes:

Subject is provided only in the summer semester.

Past grade distribution
Total number of evaluated students: 147

A	B	C	D	E	FX
21,77	32,65	23,13	12,24	10,2	0,0

Lecturers: Mgr. Peter Gál, PhD., Mgr. Miloš Mrva, PhD.

Last change: 03.03.2020

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI-FM.KMk/2-MMN-122/00	Marketing Management

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 2 / 2 **per level/semester:** 28 / 28
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 1.

Educational level: II.

Prerequisites:

Course requirements:
Scale of assessment (preliminary/final): 50/50

Learning outcomes:

Class syllabus:

Recommended literature:
1. PAJTINKOVÁ BARTÁKOVÁ, G. – GUBÍNIOVÁ, K. 2012. Udržateľný marketingový manažment. Trenčín : Inštitút aplikovaného manažmentu, 2012. ISBN 978–80–89600–08–3
2. BARTÁKOVÁ, Gabriela a kolektív. 2007. Marketing manažment II – ako v súčasnom trhovom prostredí postupovať. Bratislava : 228 s.r.o., 2007. ISBN 978-80-969856-1-6
3. KOTLER, P. 2010. Chaotika: Manažment a marketing firiem v turbulentných časoch. Bratislava : Eastone Books, 2010. ISBN 978-80-8109-114-8

Languages necessary to complete the course:
Sloavk, English

Notes:

Past grade distribution
Total number of evaluated students: 210

A	B	C	D	E	FX
23,81	27,14	19,05	13,33	13,81	2,86

Lecturers: doc. Ing. Gabriela Pajtinková Bartáková, PhD., doc. JUDr. PhDr. Katarína Gubíniová, PhD.

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI-FM.KMk/2-MMN-127/00	Marketing Research

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 2 / 2 **per level/semester:** 28 / 28
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 4.

Educational level: II.

Prerequisites:

Recommended prerequisites:
Marketing management

Course requirements:
40 % research project. Evaluation will be based on the quality level of the research project.
60 % final test. Final test will be composed as combination of open and closed questions from lectures and project. Written, online test using the selected application (MS Forms)
Electronic communication and method of distribution of study materials is carried out by MS Teams application.
The semester project is elaborated continuously at individual seminars, namely the assignment is always given one week in advance at the seminar. Students can work on the semester project in groups. Semester project is handed out without the possibility of additional adjustments and additional exchanges.
Scale of assessment (preliminary/final): 40/60

Learning outcomes:
After completing the course students will be able to analyze and interpret data that are used in marketing practice. They will obtain the ability and skills required to work in managerial and professional positions using the information in the context of marketing management. Students will be eligible to solve complex problems related to research and they will be able to analyze the market and customers.

Class syllabus:
1. The role of marketing research in management of marketing activities – introduction.
2. Process of marketing research.
3. Typology of marketing research.
4. Survey as marketing research method.
5. Observation as marketing research method.
6. Experimental design in marketing research.
7. Sampling.
8. Panel research and omnibus research.

9. Data analysis – descriptive analysis: one-dimensional, two-dimensional and multidimensional descriptive analysis.
10. Hypothesis testing.
11. Data analysis – advanced analysis: regression analysis, correlation coefficient, factor analysis.
12. Data analysis – advanced analysis: structural equation modeling, cluster analysis and conjoint analysis.
13. Tendencies in the development of marketing research.

Recommended literature:

• BRADLEY, N., 2013. Marketing Research tools and Techniques. Oxford: Oxford University Press, 2013. ISBN 978-0-19-965509-0.
• HAGUE, P. N., HAGUE, N., 2004. Market Research in Practice: A Guide to the Basics. Pages: 257, Publisher: Kogan Page Ltd, 2004. E-source: <http://site.ebrary.com/lib/uniba/Doc?id=10084442>
• CHURCHILL, A. G. – IACOBUCCI, D., 2010. Marketing Research. Methodological Foundations. South-Western, Cengage Learning, 2010. ISBN 0-538-74377-8.
• KOZEL, R., 2006. Moderní marketingový výzkum. Praha: Grada Publishing, 2006. [online]. Available from: <http://books.google.sk/books?id=1EfM8GQiOBcC&dq=marketingov%C3%BD+v%C3%BDzkum&source=gbs_navlinks_s>
• KUMAR, V., 2015. Marketing research. A global Outlook. New Dehli: Sage Publications, 2015. ISBN 978-93-515-0248-7.
• RICHTEROVÁ, K. a kol. 2007. Marketingový výskum. Bratislava: Ekonóm, 2007. ISBN 80-225-2362-2
• TAHAL, R. a kol. 2017. Marketingový výzkum. Postupy, metody, trendy. Praha: Grada Publishing, 2017. ISBN 80-271-0206-8
• VOKOUNOVÁ, D. a kol. 2004. Praktikum z prieskumu trhu. Bratislava: Ekonóm, 2004. ISBN 80-225-1753
• Trend, Journal of International Marketing and Marketing Science and Inspirations journals

Languages necessary to complete the course:
Slovak, English

Notes:

Past grade distribution
Total number of evaluated students: 93

A	B	C	D	E	FX
46,24	30,11	22,58	0,0	1,08	0,0

Lecturers: Mgr. František Olšavský, PhD., Mgr. Lucia Vilčeková, PhD.

Last change: 10.02.2021

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KMANM/2-MMN-237/15	Mathematical Skills in Management

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 3.

Educational level: II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 116

A	B	C	D	E	FX
92,24	5,17	1,72	0,0	0,86	0,0

Lecturers: Mgr. Lukáš Polesňák

Last change: 11.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI-FM.KEF/2-MMN-128/00	Monetary Theory and Policy

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 2 / 2 **per level/semester:** 28 / 28
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 2.

Educational level: II.

Prerequisites:

Course requirements:
Scale of assessment (preliminary/final): 50/50

Learning outcomes:
Expand the lessons learned from managing monetary policy and applying monetary criteria in managing the national economy.

Class syllabus:
The objectives of monetary policy in monetary theory and practice. Money and currency. Money theories and methods of money issuance. Theory of Interest. Monetary equilibrium and monetary stability - the conditions for its security and the consequences of the disturbance. The issue of inflation as a monetary phenomenon, determining the diagnosis of inflation. Anti-inflationary policy and disinflation costs. The theory of rational expectations and its application in monetary policy. Money supply. Targets, limits and instruments of monetary policy. External balance, foreign exchange rates and balance of payments. Coordination of monetary and budgetary policies. NBS monetary policy. Monetary policy within the EMU.

Recommended literature:
Irena Hlavatá: Menová teória a politika. Vydavateľstvo Ekonóm, Bratislava 1996.
Frederic S. Mishkin: The Economics of Money, Banking and Financial Markets, (second edition), Scott, Foresman and Company, Gleniew - Illinois - Boston - London 1989.

Languages necessary to complete the course:
English

Notes:

Past grade distribution
Total number of evaluated students: 210

A	B	C	D	E	FX
44,76	36,19	15,71	2,38	0,48	0,48

Lecturers: PhDr. Štefan Rychtárik, PhD.

Last change: 13.03.2018
Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KMANM/2-MMN-138/18	Multidimensional Methods in Management (SAS)

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 1.

Educational level: II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 18

A	B	C	D	E	FX
27,78	27,78	22,22	0,0	0,0	22,22

Lecturers: doc. Ing. Iveta Stankovičová, PhD.

Last change:

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAI/2-MMN-207/00	Multimedia for Management

Educational activities:
Type of activities: course
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 4.

Educational level: II.

Prerequisites:

Course requirements:
Scale of assessment (preliminary/final): 50/50

Learning outcomes:

Class syllabus:
Introduction to multimedia, history, basic definitions and concepts, the future of multimedia.
Multimedia personal computer: HW and SW. Sound in multimedia: MIDI standard, sequencer, computer music. Practical examples of sound processing: wav, mid.
The authoring SW, presentation programmes, examples (encyclopaedias, teaching programmes).
Usage of text, graphics, animations and video in multimedia products.
Video: NLE (nonlinear video editing) - practical examples.
Communication and multimedia (hypermedia, videoconferencing, up-to-date MM technologies).

Recommended literature:
Computer oriented journals.
Original manufacturer's manuals for MM SW and HW.
Specialised Web pages devoted to multimedia.
Other available literature.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 375

A	B	C	D	E	FX
66,4	22,4	6,4	4,0	0,0	0,8

Lecturers: Ľubomír Lúčan, CSc.

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KMANM/2-MMN-101/18	Numerical Methods (1)

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 2 / 1 **per level/semester:** 28 / 14
Form of the course: on-site learning

Number of credits: 4

Recommended semester: 1.

Educational level: II.

Prerequisites:

Antirequisites: FMFI.KMANM/2-MMN-101/00

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 406

A	B	C	D	E	FX
15,52	26,6	22,41	21,67	13,3	0,49

Lecturers: Mgr. Jela Babušíková, PhD.

Last change:

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KMANM/2-MMN-102/18	Numerical Methods (2)

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 2 / 1 **per level/semester:** 28 / 14
Form of the course: on-site learning

Number of credits: 4

Recommended semester: 2.

Educational level: II.

Prerequisites:

Antirequisites: FMFI.KMANM/2-MMN-102/00

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 397

A	B	C	D	E	FX
8,56	4,79	11,08	22,92	51,13	1,51

Lecturers: Mgr. Jela Babušíková, PhD.

Last change:

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KMANM/2-MMN-103/00	Ordinary Differential Equations

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 3 / 1 **per level/semester:** 42 / 14
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 1.

Educational level: II.

Prerequisites:

Course requirements:
Scale of assessment (preliminary/final): 40/60

Learning outcomes:

Class syllabus:
1. Local and global properties of solutions of systems of differential equations
2. Linear differential systems and linear differential equations of the n-th order.
3. Linear differential systems with constant coefficients.
4. Autonomous differential systems.
5. Boundary value problems and Sturm-Liouville eigenvalue problem.
6. Stability of solutions of differential equations.

Recommended literature:
M. Greguš, M.Švec, V.Šeda: Obyčajné diferenciálne rovnice, Alfa, SNTL, Bratislava, Praha, 1985.
M. Brown: Differential Equations and their Applications, Springer-Verlag, New York, 1975.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 401

A	B	C	D	E	FX
27,68	34,16	27,18	9,73	0,75	0,5

Lecturers: prof. RNDr. Jaroslav Jaroš, CSc.

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI-FM.KMn/2-MMN-123/00	**Course title:** Organizational Behavior

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 2 / 2 **per level/semester:** 28 / 28
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 1.

Educational level: II.

Prerequisites:

Course requirements:
20 % – case study preparation and presentation, 30 % - midterm written exam,
50 % – oral exam.
Grade A requires 91 % (minimum), B 81 %, C 73 %, D 66 % , and grade E requires 60% at minimum.
Scale of assessment (preliminary/final): 50/50

Learning outcomes:
The course covers specific content areas of Organizational Behavior (OB) and is designed for graduate students in the field of Management. OB as a contemporary approach to management is a course designed to introduce graduate students to the theories, concepts, and practical applications of research in the field. The course helps to develop the skills necessary to solve specific problems of OB faced by organizations.

Class syllabus:
• Introduction, The Nature of Organizations, Trends in the New Workplace, The Nature of Managerial Work, Managerial Skills, Management Lessons from Abroad – Japanese Management.
• Individual Behavior and Performance, Basic Attributes of Individuals, Values, Attitudes, and the Perceptual Process.
• Motivation Theories, Learning, Reinforcement, Self-Management, Job Design
• Groups in Organizations, Group Effectiveness, Group Dynamics, Group Norms, Teamwork.
• Managing Organizations: Organizational Design for Strategic Competency, Basic Elements of Organizational Structures, Organizational Design Concepts (Options).
• Management and Chaos Theory, The New Organization
• Managing Change in Organizations, Managers as Change Agents, Change Strategies, Resistance to Change, Crisis of Change, Dynamics of Stress. Power. Leadership and followership. Managerial decision-making.

Recommended literature:
Robbins S.P, Judge T.A.: Organizational Behavior, 16th Edition, Pearson, Harlow, 2015.
Rudy, J. – Rudyová, J.: Human Resource Management in Japan, VHK Altdorf, 2008

Languages necessary to complete the course:

English

Notes:

Past grade distribution
Total number of evaluated students: 33

A	B	C	D	E	FX
27,27	30,3	15,15	15,15	12,12	0,0

Lecturers: doc. PhDr. Rozália Sulíková, PhD., Mgr. Alexandra Bohinská

Last change: 04.01.2016

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KMANM/2-MMN-109/00	Partial Differential Equations

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 3 / 1 **per level/semester:** 42 / 14
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 2.

Educational level: II.

Prerequisites:

Course requirements:
Scale of assessment (preliminary/final): 40/60

Learning outcomes:

Class syllabus:
1. Linear and quasilinear partial differential equations of the first order.
2. The method of characteristics.
3. Classification of partial differential equations of the second order. Canonical forms.
4. One-dimensional wave equation. Heat equation.
5. Fourier method
6. Parabolic eqaution.
7. Laplace equation.

Recommended literature:
M. Greguš: Parciálne diferenciálne rovnice (skriptá UK), Bratislava 1983.
J. Kačur: Rovnice matematickej fyziky I, (skriptá UK), Bratislava 1984.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 397

A	B	C	D	E	FX
33,75	30,98	20,65	12,34	1,26	1,01

Lecturers: prof. RNDr. Jaroslav Jaroš, CSc., RNDr. František Jaroš, PhD.

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KMANM/2-MMN-238/19	Performance Marketing

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 4.

Educational level: II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 15

A	B	C	D	E	FX
33,33	46,67	13,33	6,67	0,0	0,0

Lecturers: Mgr. Ján Laurenčík

Last change: 06.02.2020

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KTV/2-MXX-110/00	Physical Education and Sport (1)

Educational activities:
Type of activities: practicals
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 1.

Educational level: II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
Practicing of the students´ game skills in collective sports: basketball, volleyball, football, floorball and hockey. Mastering of the basic technique of a particular sport discipline in other sports. In paddling, basic training on still and slightly flowing water. Development of coordination skills, improvement of articular mobility and cardiovascular system.

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 1594

A	B	C	D	E	FX
98,56	0,56	0,06	0,0	0,0	0,82

Lecturers: PaedDr. Dana Mašlejová, Mgr. Ladislav Mókus, Mgr. Ondrej Podkonický, Mgr. Jana Leginusová, Mgr. Tomáš Kuchár, PhD., PaedDr. Mikuláš Ortutay, Mgr. Martin Dovičák, PhD., Mgr. Júlia Raábová, PhD., Mgr. Branislav Nedbálek

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KTV/2-MXX-120/00	Physical Education and Sport (2)

Educational activities:
Type of activities: practicals
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 2.

Educational level: II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
Practicing of offensive and defensive game combinations and playing with modified rules in collective sports such as basketball, volleyball, football, floorball, hockey. Command of elements of higher difficulty in locomotion skills (swimming - crawl stroke, breast stroke, butterfly stroke, trampoline jumping and aerobics – practicing of areobics compositions, bodybuilding – development of the main muscle groups, paddling on running water. Testing of the level of physical fitness and coordination skills.

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 1458

A	B	C	D	E	FX
98,97	0,41	0,07	0,07	0,0	0,48

Lecturers: Mgr. Martin Dovičák, PhD., Mgr. Tomáš Kuchár, PhD., Mgr. Jana Leginusová, PaedDr. Dana Mašlejová, Mgr. Ladislav Mókus, Mgr. Branislav Nedbálek, PaedDr. Mikuláš Ortutay, Mgr. Ondrej Podkonický, Mgr. Júlia Raábová, PhD.

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KTV/2-MXX-210/00	Physical Education and Sport (3)

Educational activities:
Type of activities: practicals
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 3.

Educational level: II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
To improve offensive and defensive game combinations in collective sports. Practicing of tactical and technical elements in individual sports. Compensatory exercises to correct wrong body posture. Stretching. Competition rules in sport disciplines.

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 1219

A	B	C	D	E	FX
99,02	0,41	0,0	0,0	0,0	0,57

Lecturers: PaedDr. Dana Mašlejová, Mgr. Ladislav Mókus, Mgr. Ondrej Podkonický, Mgr. Jana Leginusová, Mgr. Tomáš Kuchár, PhD., PaedDr. Mikuláš Ortutay, Mgr. Martin Dovičák, PhD., Mgr. Júlia Raábová, PhD., Mgr. Branislav Nedbálek

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KTV/2-MXX-220/00	Physical Education and Sport (4)

Educational activities:
Type of activities: practicals
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 4.

Educational level: II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
Sport training for Faculty Championships in a selected sport with modified rules. Selection of sport-talented students into teams of the Faculty Sport League, University League of Bratislava Faculties, and participation in sport events of the Faculty and University.

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 1056

A	B	C	D	E	FX
99,05	0,38	0,09	0,0	0,09	0,38

Lecturers: PaedDr. Dana Mašlejová, Mgr. Ladislav Mókus, Mgr. Ondrej Podkonický, Mgr. Jana Leginusová, Mgr. Tomáš Kuchár, PhD., PaedDr. Mikuláš Ortutay, Mgr. Martin Dovičák, PhD., Mgr. Branislav Nedbálek, Mgr. Júlia Raábová, PhD.

Last change: 02.06.2015

Approved by:

STATE EXAM DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KMANM/2-MMN-954/15	**Course title:** Quantitative Methods in Management
Number of credits: 2	
Educational level: II.	
State exam syllabus:	
Last change: 05.11.2015	
Approved by:	

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJP/1-MXX-161/00	Russian Language (1)

Educational activities:
Type of activities: practicals
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 1.

Educational level: I., II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
The subject provides a course in Russian language for beginners.

Recommended literature:
The textbook has not been published. It is at students' disposal in an electronic format.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 685

A	B	C	D	E	FX
58,98	16,35	10,51	4,53	1,9	7,74

Lecturers: PhDr. Elena Klátiková

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJP/1-MXX-162/00	Russian Language (2)

Educational activities:
Type of activities: practicals
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 2.

Educational level: I., II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
The subject continues the program of Russian language (1) and provides a course of Russian for beginners.

Recommended literature:
The textbook has not been published. It is at students' disposal in an electronic format.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 414

A	B	C	D	E	FX
65,94	15,22	8,7	3,86	0,97	5,31

Lecturers: PhDr. Elena Klátiková

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJP/1-MXX-261/00	Russian Language (3)

Educational activities:
Type of activities: practicals
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 3.

Educational level: I., II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
The course "Russian for Intermediate Students" is a follow-up to "Russian for Beginners". The subject of the course is general Russian in the range appropriate to the given level.

Recommended literature:
The textbook has not been published. It is at students' disposal in an electronic format.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 197

A	B	C	D	E	FX
70,05	17,77	8,63	2,54	0,0	1,02

Lecturers: PhDr. Elena Klátiková

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJP/1-MXX-262/00	Russian Language (4)

Educational activities:
Type of activities: practicals
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 4.

Educational level: I., II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:
The course "Russian for Intermediate Students" is a follow-up to "Russian for Beginners". The subject of the course is general Russian in the range appropriate to the given level.

Recommended literature:
The textbook has not been published. It is at students' disposal in an electronic format.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 142

A	B	C	D	E	FX
75,35	13,38	7,04	2,82	0,7	0,7

Lecturers: PhDr. Elena Klátiková

Last change: 02.06.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KMANM/2-MMN-134/17	Skills in Human Resources Management

Educational activities:
Type of activities: seminar
Number of hours:
per week: 3 **per level/semester:** 42
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 1., 3.

Educational level: II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 21

A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0

Lecturers: doc. RNDr. Tibor Šipőcz, CSc.

Last change: 14.09.2018

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KTV/2-MXX-115/17	Sports in Natur (1)

Educational activities:
Type of activities:
Number of hours:
per week: **per level/semester:**
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 1.

Educational level: II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 68

A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0

Lecturers: Mgr. Branislav Nedbálek

Last change:

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KTV/2-MXX-116/18	Sports in Natur (2)

Educational activities:
Type of activities:
Number of hours:
per week: **per level/semester:**
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 2.

Educational level: II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 35

A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0

Lecturers: Mgr. Branislav Nedbálek

Last change:

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI-FM.KSP/2-MMN-204/00	Strategic Management

Educational activities:
Type of activities: lecture / practicals
Number of hours:
per week: 2 / 2 **per level/semester:** 28 / 28
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 3.

Educational level: II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 361

A	B	C	D	E	FX
34,63	27,98	18,28	9,97	8,31	0,83

Lecturers: prof. Ing. Jozef Papula, PhD., doc. Mgr. Zuzana Papulová, PhD.

Last change: 18.09.2020

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KMANM/2-MMN-140/15	Unconventional Application of Mathematical Analysis

Educational activities:
Type of activities: seminar
Number of hours:
per week: 2 **per level/semester:** 28
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 2.

Educational level: II.

Prerequisites:

Antirequisites: FMFI.KMANM/2-MAT-621/09

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 68

A	B	C	D	E	FX
91,18	8,82	0,0	0,0	0,0	0,0

Lecturers: prof. RNDr. Jaroslav Jaroš, CSc.

Last change: 02.06.2015

Approved by: