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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: 123

A	В	С	D	Е	FX
13,82	21,14	20,33	26,02	17,89	0,81

Lecturers: prof. RNDr. Ján Plesník, DrSc., Mgr. Katarína Boďová, PhD.

Last change: 18.12.2018

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: 60

A	В	C	D	E	FX
10,0	21,67	25,0	23,33	18,33	1,67

Lecturers: doc. RNDr. Vladimír Toma, PhD.

Last change:

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID: Course title:

FMFI.KMANM/2- Applied Functional Analysis (2)

MMN-110/18

**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: 50

A	В	С	D	Е	FX
32,0	18,0	10,0	16,0	2,0	22,0

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

Last change:

# STATE EXAM DESCRIPTION

University: Comenius University in Bratislava						
Faculty: Faculty of Mathema	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: prof. RNDr. M	Approved by: prof. RNDr. Michal Fečkan, DrSc.					

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:

FMFI-FM.KEF/2
MMN-124/00

Course title:

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	В	С	D	Е	FX
70,28	22,17	5,19	2,36	0,0	0,0

Lecturers: Mgr. Lucia Paškrtová, PhD.

**Last change:** 13.02.2018

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID: Course title:

FMFI-FM.KMn/2- Compensation Systems MMN-221/00

**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:**

Preliminary Assessment:

Individual Paper (5%; In-class Activities (7%); Group Case Study: Strategy Statement (8%), Phase 1 Report (15%), Phase 2 Report (15%), Phase 3 Report (15%), Group Performance Evaluation (5%). Final Assessment:

Written Exam (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:**

Milkovich, G.- Newman, J. 2016. Compensation. 12th edition.

Milkovich, G. – Gerhard, B. 2013. Cases in Compensation. 11th edition.

Bajzíková, Ľ. 2006. Systémy odmeňovania. Bratislava: Ofprint.

Journal American Compensation Academy.

Journal of HRM, FM UK, 2008-2018.

# Languages necessary to complete the course:

English							
Notes:							
Past grade distribution Total number of evaluated students: 20							
A	В	С	D	Е	FX		
55,0	35,0	5,0	0,0	5,0	0,0		
Lecturers: prof. Ing. Ľubica Bajzíková, PhD., Mgr. Zuzana Kirchmayer, PhD.							
Last change: 11.02.2018							
Approved by: 1	orof. RNDr. Mich	nal Fečkan, DrSc	-				

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: 234 Α В  $\mathbf{C}$ D Е FX 40,17 28,21 22,65 7,26 0,43 1,28 Lecturers: doc. RNDr. Andrej Ferko, PhD. **Last change:** 02.06.2015

Strana: 11

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: 129 Α В  $\mathbf{C}$ D E FX 30,23 26,36 19,38 8,53 14,73 0.78 Lecturers: doc. RNDr. Andrej Ferko, PhD. **Last change:** 02.06.2015

Strana: 12

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: 114

A	В	С	D	Е	FX
12,28	23,68	22,81	27,19	14,04	0,0

Lecturers: doc. Mgr. Ján Mačutek, PhD.

Last change: 02.06.2015

Approved by: prof. RNDr. Michal Fečkan, DrSc.

**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: 48

A	В	С	D	Е	FX
14,58	33,33	41,67	6,25	0,0	4,17

Lecturers: doc. Ing. Iveta Stankovičová, PhD.

Last change: 02.06.2015

Approved by: prof. RNDr. Michal Fečkan, DrSc.

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID: Course title:

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

**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: 31

A	В	С	D	Е	FX
38,71	54,84	6,45	0,0	0,0	0,0

Lecturers: doc. Ing. Iveta Stankovičová, PhD.

Last change: 02.06.2015

Approved by: prof. RNDr. Michal Fečkan, DrSc.

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID: Course title:

FMFI.KMANM/2- Decision Techniques in Management MMN-203/00

**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: 312

A	В	С	D	Е	FX
55,45	11,54	14,74	3,21	14,74	0,32

Lecturers: doc. RNDr. Vladimír Toma, PhD.

**Last change:** 02.06.2015

Approved by: prof. RNDr. Michal Fečkan, DrSc.

**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: 313

A	В	С	D	Е	FX
80,51	11,5	5,43	1,92	0,64	0,0

**Lecturers:** 

**Last change:** 02.06.2015

Approved by: prof. RNDr. Michal Fečkan, DrSc.

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KMANM/2-Diploma Thesis (2) MMN-911/15 **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: 85 В  $\mathbf{C}$ D E Α FX 89,41 3,53 2,35 2,35 1,18 1,18 Lecturers: doc. RNDr. Vladimír Toma, PhD., prof. RNDr. Michal Fečkan, DrSc. Last change: 02.06.2015 Approved by: prof. RNDr. Michal Fečkan, DrSc.

# STATE EXAM DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:
FMFI.KMANM/2Diploma Thesis Defense

Number of credits: 2

Educational level: II.

State exam syllabus:

Last change: 02.06.2015

Approved by: prof. RNDr. Michal Fečkan, DrSc.

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KMANM/2-Diploma Thesis Seminar (1) MMN-920/15 **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: 117 В  $\mathbf{C}$ D E Α FX 98,29 0,0 0,0 0,85 0,85 0,0 Lecturers: doc. RNDr. Vladimír Toma, PhD. Last change: 02.06.2015 **Approved by:** prof. RNDr. Michal Fečkan, DrSc.

**University:** Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID: Course title:

FMFI.KMANM/2- Diploma Thesis Seminar (2)

MMN-921/00

**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: 315

A	В	С	D	Е	FX
85,08	7,62	4,76	1,59	0,95	0,0

Lecturers: doc. RNDr. Vladimír Toma, PhD.

**Last change:** 02.06.2015

**Approved by:** prof. RNDr. Michal Fečkan, DrSc.

**University:** Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID: Course title:

FMFI.KMANM/2- Diploma Thesis Seminar (3)

**Educational activities: Type of activities:** seminar

**Number of hours:** 

MMN-922/00

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: 313

A	В	С	D	Е	FX
90,1	5,11	2,24	1,6	0,64	0,32

Lecturers: doc. RNDr. Vladimír Toma, PhD.

Last change: 02.06.2015

**Approved by:** prof. RNDr. Michal Fečkan, DrSc.

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID: Course title:

FMFI-FM.KIS/2- E-business and E-market MMN-205/00

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 oneto-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: 120								
A	В	B C D E FX						
94,17	5,0	0,0	0,83	0,0	0,0			
Lecturers: Ing.	Jaroslav Vojtech	ovský, PhD., Mg	gr. Eva Porázikov	á				
<b>Last change:</b> 02.06.2015								
Approved by: 1	prof. RNDr. Mich	nal Fečkan, DrSc						

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 or FMFI.KAMŠ/2-

MMN-106/15 - Computer Statistics or FMFI.KAMŠ/2-PMS-107/15 - Regression Models or

FMFI.KAMŠ/2-MMN-106/15 - Computer 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: 1032

A	В	С	D	Е	FX
24,22	15,5	18,9	17,64	18,6	5,14

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

Last change: 12.10.2016

Approved by: prof. RNDr. Michal Fečkan, DrSc.

**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: 229

A	В	С	D	Е	FX
99,13	0,0	0,0	0,0	0,0	0,87

Lecturers: doc. RNDr. Ján Pekár, PhD.

**Last change:** 02.06.2015

Approved by: prof. RNDr. Michal Fečkan, DrSc.

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID: Course title:

FMFI-FM.KEF/2- Economy Processes Modelling MMN-112/00

**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 mathemates 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: 340

A	В	С	D	Е	FX
43,53	29,71	18,82	5,59	2,35	0,0

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

**Last change:** 14.03.2018

**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: 144

A	В	С	D	Е	FX
59,72	18,06	9,03	2,08	1,39	9,72

Lecturers: PhDr. Elena Klátiková

Last change: 02.06.2015

**Approved by:** prof. RNDr. Michal Fečkan, DrSc.

**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: 78

A	В	С	D	Е	FX
64,1	20,51	6,41	1,28	0,0	7,69

Lecturers: PhDr. Elena Klátiková

Last change: 02.06.2015

Approved by: prof. RNDr. Michal Fečkan, DrSc.

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KMANM/2-Finance and Insurance Mathematics in MS-Excel MMN-130/15 **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: 122  $\mathbf{C}$ D Е FX 81,97 6.56 7,38 4.1 0.0 0.0 Lecturers: RNDr. Peter Švaňa, CSc.

**Approved by:** prof. RNDr. Michal Fečkan, DrSc.

Last change: 02.06.2015

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:

FMFI-FM.KEF/2- Financial Accounting and Analysis MMN-224/10

Course title:

**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:**

Financial accounting an introduction to concepts, methods, and uses / Clyde P. Stickney, Roman L. Weil. Fort Worth: Harcourt Brace, 1997

#### Languages necessary to complete the course:

**English** 

# **Notes:**

# Past grade distribution

Total number of evaluated students: 16

A	В	С	D	Е	FX
31,25	37,5	12,5	12,5	6,25	0,0

Lecturers: doc. RNDr. Darina Saxunová, PhD.

**Last change:** 12.03.2018

**Approved by:** prof. RNDr. Michal Fečkan, DrSc.

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID: Course title:

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

**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:

Normative arrangements in a firm and in the entrepreneurial sphere and their evaluation from the point of view of modern theory and applicability. Attitude of enterpreneurial sphere towords credits and the whole system of credits; financing – budged and funds managing, financial markets developments and their relations to international finances.

#### **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: 361

A	В	C	D	Е	FX
21,88	30,47	21,33	15,24	9,7	1,39

Lecturers: prof. RNDr. Ing. Ľudomír Šlahor, CSc., Mgr. Ján Smoleň, PhD.

**Last change:** 06.03.2018

**Approved by:** prof. RNDr. Michal Fečkan, DrSc.

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: 387

A	В	С	D	Е	FX
41,09	21,96	21,19	9,82	2,07	3,88

Lecturers: Mgr. Ľubomíra Kožehubová

Last change: 02.06.2015

Approved by: prof. RNDr. Michal Fečkan, DrSc.

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: 247

A	В	С	D	Е	FX
36,03	26,72	21,05	10,93	2,83	2,43

Lecturers: Mgr. Ľubomíra Kožehubová

Last change: 02.06.2015

**Approved by:** prof. RNDr. Michal Fečkan, DrSc.

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: 97

A	В	C	D	Е	FX
36,08	28,87	22,68	7,22	1,03	4,12

Lecturers: Mgr. Ľubomíra Kožehubová

Last change: 02.06.2015

**Approved by:** prof. RNDr. Michal Fečkan, DrSc.

**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: 68

A	В	С	D	Е	FX
36,76	35,29	19,12	2,94	1,47	4,41

Lecturers: Mgr. Ľubomíra Kožehubová

Last change: 02.06.2015

Approved by: prof. RNDr. Michal Fečkan, DrSc.

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: 666

A	В	С	D	Е	FX
32,28	29,13	21,17	9,91	2,85	4,65

Lecturers: Mgr. Alexandra Mad'arová, Mgr. Marián Mancovič

**Last change:** 02.06.2015

**Approved by:** prof. RNDr. Michal Fečkan, DrSc.

**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: 423

A	В	С	D	Е	FX
30,5	21,99	22,93	14,66	3,78	6,15

Lecturers: Mgr. Alexandra Mad'arová, Mgr. Marián Mancovič

Last change: 02.06.2015

Approved by: prof. RNDr. Michal Fečkan, DrSc.

**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: 150

A	В	С	D	Е	FX
38,0	28,0	22,0	6,67	2,67	2,67

Lecturers: Mgr. Alexandra Mad'arová, Mgr. Marián Mancovič

Last change: 02.06.2015

Approved by: prof. RNDr. Michal Fečkan, DrSc.

**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: 78

A	В	С	D	Е	FX
35,9	28,21	14,1	12,82	3,85	5,13

Lecturers: Mgr. Alexandra Mad'arová, Mgr. Marián Mancovič

Last change: 02.06.2015

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: 206

A	В	С	D	Е	FX
97,09	2,43	0,0	0,0	0,0	0,49

Lecturers: doc. RNDr. Ján Pekár, PhD.

Last change: 18.06.2015

Approved by: prof. RNDr. Michal Fečkan, DrSc.

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID: Course title:

FMFI-FM.KEF/2- Investment Analysis MMN-222/00

**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: 78

A	В	С	D	Е	FX
24,36	17,95	24,36	11,54	21,79	0,0

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

Last change: 09.03.2018

**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: 12

A	В	С	D	Е	FX
25,0	8,33	41,67	25,0	0,0	0,0

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

**Last change:** 02.06.2015

Approved by: prof. RNDr. Michal Fečkan, DrSc.

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI-FM.KEF/2-Managerial Accounting MMN-126/18 **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: 30  $\mathbf{C}$ D FX Ε 56.67 16.67 3,33 20.0 0.0 3,33 Lecturers: doc. RNDr. Darina Saxunová, PhD. Last change:

Strana: 46

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:

FMFI-FM.KSP/2- Managerial Decision-Making MMN-125/00

Course title:

**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%; E = 65-

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:**

Decision-making belongs to main responsibilities and functions of the managers and managers are regarded and evaluated in terms of success in making decisions. The goal of the course is to improve the decision-making skills of students and to contribute to their ability to effectively and creatively solve problems both individually and within the teams. The course graduates would learn to perceive decision-making as a systematic process in the context of problem solving. They would be able to use rational methods of decision-making under conditions of certainty, risk and uncertainty as well as to solve the sequence of successive decisions. They would be familiar with the techniques of decision-making in groups and teams. They would sense the psychological perspective of the decision-making. They would practice the gained theoretical knowledge practically by means of the various simulations and case studies.

## 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: 144

A	В	С	D	Е	FX
20,83	33,33	22,92	12,5	10,42	0,0

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

Last change: 13.02.2018

**University:** Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID: Course title:

FMFI-FM.KMk/2- Marketing Management MMN-122/00

**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: 191

A	В	С	D	Е	FX
24,08	28,27	18,32	13,61	13,09	2,62

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

**Last change:** 02.06.2015

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course title:

Course ID:

FMFI-FM.KMk/2- Marketing Research MMN-127/00

**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.

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:

The role of research in marketing - trends, definitions and scope.

Sampling - advantages and disadvantages of using samples in research, process and methods of sampling, sample size calculation.

Basic research methods - observation, survey, experiment, primary and secondary research.

Qualitative vs. quantitative research – differences, fields of use, methods of evaluation.

Data processing - Descriptive analysis, Univariate analysis and multivariate analysis, Static and dynamic analysis.

Hypotheses testing - hypothesis setting, level of significance, types of tests, how to select the appropriate method.

Application of research in marketing - cluster analysis to identify market segments, conjoint analysis in product research, multidimensional scaling to determine the market position.

Internet and research - AB testing, research purchasing behavior, measure the effectiveness of emarketing.

Data Mining - predictive analysis, market basket analysis.

## **Recommended literature:**

- [1] BRADLEY, N., 2013. Marketing Research tools and Techniques. Oxford: Oxford University Press, 2013. 359 p. ISBN 978-0-19-965509-0.
- [2] CHURCHILL, A. G. IACOBUCCI, D., 2005. Marketing Research. Methodological Foundations. Mason: Thomson/South-Western, 2005. 403 p. ISBN 0-324-22509-1.
- [3] KUMAR, V., 2015. Marketing research. A global Outlook. New Dehli: Sage Publications, 2015. 412 p. ISBN 978-93-515-0248-7.
- [4] Richterová, K. a kol.: Marketingový výskum. Bratislava: Ekonóm 2007. 376 p. ISBN 80-225-2064-0.
- [5] Marketing Science and Inspirations journal.

# Languages necessary to complete the course:

Slovak, English

**Notes:** 

## Past grade distribution

Total number of evaluated students: 90

A	В	С	D	Е	FX
45,56	30,0	23,33	0,0	1,11	0,0

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

Last change: 08.03.2018

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KMANM/2-Mathematical Skills in Management MMN-237/15 **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: 85 В  $\mathbf{C}$ D E Α FX 95,29 3,53 1,18 0,0 0,0 0,0 Lecturers: Mgr. Lukáš Polesňák Last change: 11.06.2015 Approved by: prof. RNDr. Michal Fečkan, DrSc.

**University:** Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID: Course title:

FMFI-FM.KEF/2- Monetary Theory and Policy MMN-128/00

**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: 185

A	В	С	D	Е	FX
47,03	34,05	15,68	1,62	0,0	1,62

Lecturers: PhDr. Štefan Rychtárik, PhD.

**Last change:** 13.03.2018

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KMANM/2-Multidimensional Methods in Management (SAS) MMN-138/18 **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: 10 В  $\mathbf{C}$ D E FX Α 30,0 30,0 0,0 0,0 0,0 40,0 Lecturers: doc. Ing. Iveta Stankovičová, PhD. Last change: Approved by: prof. RNDr. Michal Fečkan, DrSc.

**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: way, 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: 316

A	В	C	D	Е	FX
62,97	25,95	7,59	2,53	0,0	0,95

Lecturers: L'ubomír Lúčan, CSc.

**Last change:** 02.06.2015

Approved by: prof. RNDr. Michal Fečkan, DrSc.

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID: Course title:

FMFI.KMANM/2- Numerical Methods (1) MMN-101/18

**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: 368

A	В	С	D	E	FX
16,58	25,0	21,47	23,1	13,86	0,0

Lecturers: Mgr. Jela Babušíková, PhD.

Last change:

Approved by: prof. RNDr. Michal Fečkan, DrSc.

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KMANM/2-Numerical Methods (2) MMN-102/18 **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: 340  $\mathbf{C}$ D Е FX 9.41 9.41 4.41 19,41 56,18 1,18

Strana: 58

Lecturers: Mgr. Jela Babušíková, PhD.

Approved by: prof. RNDr. Michal Fečkan, DrSc.

Last change:

**University:** Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID: Course title:

FMFI.KMANM/2- Ordinary Differential Equations

MMN-103/00

**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: 361

A	В	С	D	Е	FX
28,81	33,24	27,15	9,7	0,83	0,28

Lecturers: prof. RNDr. Jaroslav Jaroš, CSc.

**Last change:** 02.06.2015

**Approved by:** prof. RNDr. Michal Fečkan, DrSc.

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID: Course title:

FMFI-FM.KMn/2- Organizational Behavior MMN-123/00

**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: 26								
A	В	С	D	Е	FX			
15,38	38,46	19,23	15,38	7,69	3,85			
Lecturers: doc	Lecturers: doc. PhDr. Rozália Sulíková, PhD.							
<b>Last change:</b> 04.01.2016								
Approved by:	prof. RNDr. Mich	nal Fečkan, DrSc						

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID: Course title:

FMFI.KMANM/2- Partial Differential Equations MMN-109/00

**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 equation.
- 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: 340

A	В	С	D	Е	FX
32,94	30,88	20,59	12,94	1,47	1,18

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

**Last change:** 02.06.2015

Approved by: prof. RNDr. Michal Fečkan, DrSc.

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: 1433

A	В	С	D	Е	FX
99,16	0,56	0,0	0,0	0,0	0,28

**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: prof. RNDr. Michal Fečkan, DrSc.

**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: 1331

Α	В	С	D	E	FX
99,77	0,08	0,0	0,08	0,0	0,08

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

**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: 1081

A	В	С	D	Е	FX
99,44	0,37	0,0	0,0	0,0	0,19

**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: prof. RNDr. Michal Fečkan, DrSc.

**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: 957

A	В	С	D	Е	FX
99,37	0,42	0,0	0,0	0,1	0,1

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: prof. RNDr. Michal Fečkan, DrSc.

# STATE EXAM DESCRIPTION

University: Comenius University in Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:
FMFI.KMANM/2FMFI.KMANM/2MMN-954/15

Number of credits: 2

Educational level: II.

State exam syllabus:

Last change: 05.11.2015

Approved by: prof. RNDr. Michal Fečkan, DrSc.

**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: 654

A	В	С	D	Е	FX
60,4	15,9	10,09	4,74	1,83	7,03

Lecturers: PhDr. Elena Klátiková

Last change: 02.06.2015

Approved by: prof. RNDr. Michal Fečkan, DrSc.

**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: 399

A	В	С	D	Е	FX
65,66	15,79	9,02	4,01	1,0	4,51

Lecturers: PhDr. Elena Klátiková

**Last change:** 02.06.2015

Approved by: prof. RNDr. Michal Fečkan, DrSc.

**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: 196

A	В	С	D	Е	FX
70,41	17,35	8,67	2,55	0,0	1,02

Lecturers: PhDr. Elena Klátiková

Last change: 02.06.2015

Approved by: prof. RNDr. Michal Fečkan, DrSc.

**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: 138

A	В	С	D	Е	FX
75,36	13,04	7,25	2,9	0,72	0,72

Lecturers: PhDr. Elena Klátiková

**Last change:** 02.06.2015

Approved by: prof. RNDr. Michal Fečkan, DrSc.

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KMANM/2-Skills in Human Resources Management MMN-134/17 **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: 15 В  $\mathbf{C}$ D E Α 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: prof. RNDr. Michal Fečkan, DrSc.

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: 30 Α В  $\mathbf{C}$ D E FX 100,0 0,0 0,0 0,0 0,0 0,0 Lecturers: Mgr. Branislav Nedbálek Last change: Approved by: prof. RNDr. Michal Fečkan, DrSc.

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course title: Course ID:** 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: 9 Α C В D E FX 100,0 0,0 0,0 0,0 0,0 0,0 Lecturers: Mgr. Branislav Nedbálek Last change: Approved by: prof. RNDr. Michal Fečkan, DrSc.

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI-FM.KSP/2-Strategic Management MMN-204/00 **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: 306 В  $\mathbf{C}$ D E Α FX 30,72 28,76 9,48 19,61 10,46 0,98

Lecturers: doc. Mgr. Zuzana Papulová, PhD., Mgr. Maroš Šlenker

**Last change:** 02.06.2015

Approved by: prof. RNDr. Michal Fečkan, DrSc.

University: Comenius University in Bratislava Faculty: Faculty of Mathematics, Physics and Informatics **Course ID: Course title:** FMFI.KMANM/2-Unconventional Application of Mathematical Analysis MMN-140/15 **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: 44  $\mathbf{C}$ D Е FX 100.0 0.0 0.0 0.0 0.0 0.0 Lecturers: prof. RNDr. Jaroslav Jaroš, CSc. Last change: 02.06.2015

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