



SUBJECT DATASHEET

FINANCE

BMEGT35M402

I. SUBJECT DESCRIPTION

1. SUBJECT DATA

Subject name

FINANCE

ID (subject code)

BMEGT35M402

Type of subject

contact lessons

Course types and lessons

<i>Type</i>	<i>Lessons</i>
Lecture	3
Practice	1
Laboratory	0

Type of assessment

exam grade

Number of credits

5

Subject Coordinator

<i>Name</i>	<i>Position</i>	<i>Contact details</i>
Dr. Bethlendi András	associate professor	bethlendi.andras@gtk.bme.hu

Educational organisational unit for the subject

Department of Finance

Subject website

<https://edu.gtk.bme.hu/>

Language of the subject

magyar - HU

Curricular role of the subject, recommended number of terms

Programme: **Electrical Engineering, B.Sc.**

Subject Role: **Compulsory**

Recommended semester: **0**

Direct prerequisites

Strong None

Weak None

Parallel None

Exclusion None

Validity of the Subject Description

2. OBJECTIVES AND LEARNING OUTCOMES

Objectives

Business decisions are based on significant business uncertainty and risk. The aim of teaching the subject is that students get to know the basic concept of risk management. What types of risks do companies and financial institutions face. Risk management, and more broadly, how responsible corporate governance can effectively manage these, thereby increasing the value of the organization. Students will get an idea of the basic methods and best practices of risk management, with emphasis on value at risk; expected shortfall; stress test and scenario analysis. Market risks are presented through option and bond pricing models (what risks these financial instruments are sensitive to). We describe the credit risk and its two components: expected and unexpected loss. We also cover operational and sovereign risks. In developing the topic, we made great efforts to cover the first and fourth topics of the international FRM (Financial Risk Manager) exam (Foundations of Risk Management; Valuation and Risk Models). In the course of education, we keep in mind the objective that, as a result of the learning process, the student should be able to apply the acquired theory in practice.

Academic results

Knowledge

1. Student is aware of
2. the different types of risk;
3. basic risk management methods;
4. modern corporate governance systems, in which the risk management function also plays a role;
5. risk mitigation techniques.

Skills

1. Student is able to
2. plan and organize independent learning,
3. comprehend and use the professional literature of the topic,
4. to identify and measure corporate / banking risk,
5. perform calculations to support decision making.

Attitude

1. Student
2. is open to learn about and adapt innovations in finance,
3. collaborates with their instructors and peers during the learning process,
4. gains knowledge and information,
5. makes use of ICT tools.

Independence and responsibility

1. Student
2. is open to accept reliable critical remarks,
3. collaborates with other students in performing assignments during the learning process,
4. is capable of making informed judgements in the financial (risk) decision-making,
5. can weigh the significance of their responsibilities and foresee the consequences of their decisions.

Teaching methodology

Lectures, verbal and written communication, use of ICT tools and techniques, optionally independent and group assignments.

Materials supporting learning

- Kötelező - Obligatory:
- Az előadások prezentációinak anyaga, ami a félév során folyamatosan fog feltöltésre kerülni.
- Lecture slides which will be uploaded continuously during the semester.
- Ajánlott - Recommended:
- Az aktuális irodalmi lista az első órán kerül ismertetésre.
- The actual bibliography will be presented in the first hour.

II. SUBJECT REQUIREMENTS

TESTING AND ASSESSMENT OF LEARNING PERFORMANCE

General Rules

A 2.2. pontban megfogalmazott tanulási eredmények értékelése vizsga alapján történik. Az értékelésben megjelenik a nem kötelező házi feladat helyes megoldása.

Performance assessment methods

A. Szorgalmi időszakban végzett teljesítményértékelések részletes leírása - Detailed description of mid-term performance assessments A vizsgára bocsáthatóság és az aláírás feltétele: a tanórák 70%-án való részvétel. B. Vizsgaidőszakban végzett teljesítményértékelések - Detailed description of examination performance assessments A tárgyi tudás és képesség kompetenciaelemeinek értékelése írásos formában a vizsgaidőszakban történik. Az értékelés alapjául szolgáló tananyagrészt a tantárgy előadója határozza meg. A vizsgán rendelkezésre álló idő a szemeszter során kerül kihirdetésre.

Percentage of performance assessments, conducted during the study period, within the rating

Percentage of exam elements within the rating

- Év végi írásbeli vizsga: 100

Conditions for obtaining a signature, validity of the signature

Az aláírás megszerzésének feltétele az előadások látogatása. A vizsga megírásának feltétele az aláírás megszerzése. A megszerzett aláírás a TVSZ szerinti időtartamig érvényes.

Issuing grades

Excellent	91
Very good	86-90
Good	70-85
Satisfactory	60-69
Pass	50-59
Fail	-49

Retake and late completion

Javítás és pótlás TVSZ szerint történik.

Coursework required for the completion of the subject

részvétel a kontakt tanórákon	56
vizsgafelkészülés	94
összesen	150

Approval and validity of subject requirements

Consulted with the Faculty Student Representative Committee, approved by the Vice Dean for Education, valid from: 04.03.2024.

III. COURSE CURRICULUM

THEMATIC UNITS AND FURTHER DETAILS

Topics covered during the term

A 2.2. pontban megfogalmazott tanulási eredmények eléréséhez a tantárgy a következő tematikai blokkokból áll. Az egyes félévekben meghirdetett kurzusok sillabuszaiban e témaelemeket ütemezzük a naptári és egyéb adottságok szerint.

- 1 Risk management systems, basic types of risk, value-creating risk management
- 2 Role of risk management in corporate governance, risk management errors, regulations
- 3 Methods of risk measurement: VaR (Value-at-Risk), Conditional VaR, Expected Shortfall
- 4 Market risk management
- 5 Fundamentals of portfolio theory, risk-adjusted performance measurement
- 6 Derivative VaR
- 7 Experiences of individual and systemic financial disasters
- 8 Credit risk management
- 9 Risk-based regulatory capital requirement
- 10 Liquidity risk management
- 11 Operational risk management
- 12 Country risk management
- 13 Insurance risks
- 14 Risk analysis (scenarios and stress tests)
- 15 Data quality and risk reports

Additional lecturers

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Approval and validity of subject requirements