SUBJECT DATASHEET

Green finance and digitization

BMEGT35A124

I. SUBJECT DESCRIPTION

1. SUBJECT DATA

Subject name
Green finance and digitization

ID (subject code)	BMEGT35A124

Type of subject
contact lessons

Course types and lessons

Type	*Lessons*
Lecture	4
Practice	0
Laboratory	0

Type of assessment
exam

Number of credits
5

Subject Coordinator

Name	*Position*	*Contact details*
Dr. Ilyésné Dr. Molnár Emese	assistant professor	ilyesne.molnar.emese@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: **BA in Finance and Accounting**
Subject Role: **Compulsory for the specialisation**
Recommended semester: **4**

Direct prerequisites

Strong	nincs
Weak	nincs
Parallel	nincs
Exclusion	nincs

Validity of the Subject Description
Approved by the Faculty Board of Faculty of Economic and Social Sciences, Decree No: 580439/11/2024 registration number. Valid from: 29.05.2024.

2. OBJECTIVES AND LEARNING OUTCOMES

Objectives

The subject introduces students to the practical foundations of information management. Within this, the aim is to be aware of the typical IT tasks to be performed in organizations (mainly medium and large companies and institutions), to understand the tasks and process of the development and operation of IT systems. Be able to evaluate the effectiveness of an IT investment, form a bridge between IT professionals and business areas as a manager, and be familiar with and successfully apply effective, web-based IT solutions.

Academic results

Knowledge

1. Students know the IT language, concepts and vocabulary used in companies and institutions,
2. the tasks of IT process management,
3. the methodology of IT developments,
4. the types of IT systems, such as. ERP, CRM, business and artificial intelligence systems,
5. IT trends, latest technological trends.

Skills

1. Students are able to integrate effectively into the work of an IT organization or business IT projects,
2. understand at a high level the entire IT operation of the organization, even if he/she has a direct view of only a narrow slice,
3. understand the business and IT objectives of IT systems,
4. get involved in the development of IT systems from both the business and IT side and to monitor the development project intelligently,
5. identify risks in IT operations,
6. review IT finances, understand cost categories,
7. identify IT opportunities that can be used to effectively improve business processes.

Attitude

1. Students participate proactively in the lectures, answers questions from (guest) instructors, and asks questions that help to understand the topic,
2. collaborate with the instructor and fellow students to expand knowledge,
3. will continuously expand your knowledge by reading the recommended internet portals,
4. open to the use of information technology tools.

Independence and responsibility

1. are preparing for the examinations in private.
2. follow the curriculum, the published slides, the teaching aid from hour to hour.
3. perform an independent project task as part of a presentation competition (optional).

Teaching methodology

Lectures, and written communication, use of ICT tools and techniques, home assignment. Students will submit assignments, including quizzes, throughout the semester based on the course content presented in that assignment. Students will complete hands-on, application exams using accounting forms.

Materials supporting learning

- A kötelező tananyag (jegyzet és diasorok) a tárgy honlapjáról (modle rendszerben) lesz letölthető
- Textbooks, notes, downloadable materials.
- The compulsory curriculum (notes and slides) will be available for download from the subject's website (in Moodle system).

II. SUBJECT REQUIREMENTS

TESTING AND ASSESSMENT OF LEARNING PERFORMANCE

General Rules

The 2.2. assessment of the learning outcomes is the following: Attendance at classes is recommended because there is a lot of background
knowledge that is not found in the handouts published to complete the Midterm Exams and tasks. They can collect extra points for active
participa-tion in classes. The assessment of the course is done in a scoring system. 50% is available during a semester and 50% in the written exam.

Performance assessment methods

A. Detailed description of assessments during a semester Performance evaluation of midterm exams: a complex, written way of evaluation
the knowledge and ability type competence elements of the subject in the form of a midterm exams, twice during the semester. An-swer
50 multiple-choice questions in 50 minutes. Appointments: Midterm Exam 1 (from the curriculum of the first three weeks): max. 25 points Midterm Exam 2 (from the curriculum of the fifth-seventh weeks): max. 25 points 2. Partial performance evaluation (individual studies and team-work): the form of which is the homework prepared individually or in groups, the content of the home-work, requirements,
the deadline for submission and the method of evaluation are determined by the seminar lecturer. Up to 25 points can be obtained. B. Detailed
description of assessments during examination period Elements of the exam: 1. written performance assessment: written test from the full semester curriculum 2. crediting of mid-year results (score). Offered grades: those who scored at least 67 points with their mid-year performance, those who scored at least 60 points can request an offered grade. A more detailed description of midterm and end-of-semester performance evaluations can be found in each semester in Moodle.

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

- **Level 1 evaluation (midterm exam)**: 25
- **Level 2 evaluation (midterm exam)**: 25
- **performance evaluation (individual studies and team work)**: 25
- **Total**: 75

Percentage of exam elements within the rating

- **written exam**: 50
- **évközi eredmények beszámítása**: 50
- **Összesen**: 100

Conditions for obtaining a signature, validity of the signature

The condition for obtaining the signature is that the 3.3. the student must achieve at least 50% of the scores. There is no minimum requirement per midterm exam. The condition for writing the Exam is to obtain a signature. The obtained signature is valid for the period according to the Study and Examination Regulations.

Issuing grades

Excellent	96
Very good	91-95
Good	81–90
Satisfactory	66–80
Pass	50–65
Fail	0-49

Retake and late completion

1. Up to one of the two Midterm Exams (optional) may be replaced or repaired without any certification during the replacement week. The better score matters. 2. Individual and group studies, due to their nature, cannot be replaced, improved or otherwise replaced. 3. In case of a failed exam the exam can be improved according to the relevant rules of the Study and Examination Regulations.

Coursework required for the completion of the subject

részvétel a kontakt tanórákon	36
Mid-term preparation for lessons, independent acquisition of written materials	36

Preparation for performance evaluations	20
Individual work / team-work	20
Preparing for the exam	38
Total	150

Approval and validity of subject requirements

Consulted with the Faculty Student Representative Committee, approved by the Vice Dean for Education, valid from: 06.05.2024.

III. COURSE CURRICULUM

THEMATIC UNITS AND FURTHER DETAILS

Topics covered during the term

Subject includes the topics detailed in the course syllabus to ensure learning outcomes listed under 2.2. can be achieved. Timing of the topics may be affected by calendar or other circumstances in each semester. Each week, the topic of the first two lessons is typically theoretical, and the second two lessons present practical cases and examples. The order of each presentation may vary depending
on the contact details of the guest lecturers.

1 Basic concepts of information management: information technology systems, digitized information or communication solutions

2 Planning and development methods of information technology systems

3 Operation of information technology systems.

4 TEST

5 Security of information technology systems

6 New technological era: New and emerging technologies (László Molnár)

7 Economic value creation in the digital age - Value is based on knowledge, creativity, market niche

8 TEST

9 Money – the digital central bank money

10 New and sustainable forms of financing the economy: advantages and dilemmas (digital banking)

11 Green finance and market solutions (the dual relationship between the financial system and sustainability, the basis of a sustainable financial system is information and data)

12 Presentations (student work)

13 Preliminary examination

Additional lecturers

Molnár László		molnar.laszlo@gtk.bme.hu
Tóth Márk Gyula	PhD hallgató	tothmarkgyula@edu.bme.hu

Approval and validity of subject requirements