SUBJECT DATASHEET

Global supply chain management

BMEGT20BX4U001-00

I. SUBJECT DESCRIPTION

1. SUBJECT DATA

Subject name
Global supply chain management

ID (subject code)	BMEGT20BX4U001-00

Type of subject
contact hours

Course types and lessons

Type	*Lessons*
Lecture	4
Practice	0
Laboratory	0

Type of assessment
mid-term grade

Number of credits
5

Subject Coordinator

Name	*Position*	*Contact details*
Dr. Sebestyén Zoltán	Associate Professor	sebestyen.zoltan@gtk.bme.hu

Educational organisational unit for the subject
Department of Management and Business Economics

Subject website
http://www.mvt.bme.hu/oktatas

Language of the subject
magyar - HU

Curricular role of the subject, recommended number of terms

Direct prerequisites

Strong	None
Weak	None
Parallel	None
Exclusion	None

Validity of the Subject Description
Approved by the Faculty Board of Faculty of Economic and Social Sciences, Decree No: 580501/3/2025 registration number. Valid from: 2025.07.10.

2. OBJECTIVES AND LEARNING OUTCOMES

Objectives

The course introduces you to the basics of business economics, procurement management processes and related KPIs. Students will learn about the latest global sourcing trends, supply chain operations and process management approaches, and apply modelling tools.

Academic results

Knowledge

1. Knowledge of the basic concepts and classical models of logistics processes.
2. Mastered the knowledge and basic algorithms of site planning.
3. Has knowledge of how to design supplier evaluation systems.
4. Understands the tasks of production logistics.
5. Can solve the basic problems of distribution logistics.
6. Has a comprehensive knowledge of company process improvement methods to improve the efficiency of logistics activities.

Skills

1. Initiate, set up and implement logistics projects in a team environment, especially in a multidisciplinary environment.
2. To plan, organise, manage and lead logistics workflows in competitive and public sector organisations, both nationally and internationally.
3. Solve tasks related to the management of logistics processes, prepare analyses, reports, surveys, work independently and in teams.
4. Identify logistical problems and prepare decisions to solve them, obtain and analyse the necessary information.
5. Identify and respond to strategic supply chain issues.

Attitude

1. Demonstrates a problem-sensitive, proactive attitude in order to achieve quality work, is constructive, cooperative and proactive in projects and team work.
2. Receptive to new information, new professional knowledge and methodologies, open to new tasks and responsibilities requiring autonomy and cooperation.
3. Strives to develop his/her knowledge and working relationships, and to cooperate with colleagues in this area.

Independence and responsibility

1. Under general professional supervision, independently carries out and organises the tasks defined in the job description.
2. Independently organise the analysis of logistical processes, data collection, systematisation and evaluation.
3. Take responsibility for your analyses, conclusions and decisions.

Teaching methodology

Lectures, written and oral communication, use of IT tools and techniques in lectures and in optional assignments.

Materials supporting learning

- Szegedi Zoltán-Prezenszki József: Logisztika-menedzsment. 4. javított, bővített kiadás, oldalszám: 482; Kossuth Kiadó, 2017; ISBN: 9789630988971.
- Szász Levente, Demeter Krisztina: Ellátásilánc-menedzsment, oldalszám: 266; Akadémiai Kiadó, 2017.
- Dr. Szegedi Zoltán: Ellátásilánc-menedzsment, oldalszám: 258; Kossuth Kiadó, 2012; ISBN: 9789630969444.
- Sunil Chopra, Peter Meindl: Supply Chain Management: Strategy, Planning, and Operation 6th Edition; oldalszám: 516; Kiadó: Pearson; 2014; ISBN: 978-0133800203.
- Christopher, Martin: Logistics and Supply Chain Management 6th Edition; oldalszám: 360; Kiadó: FT Publishing International; 2022; ISBN: 9781292416182.

II. SUBJECT REQUIREMENTS

TESTING AND ASSESSMENT OF LEARNING PERFORMANCE

General Rules

The assessment of the learning outcomes set out in 2.2 is based on two mid-year written assessments (summative assessment).

Performance assessment methods

For a detailed description of the performance assessments during the academic term: Summative academic assessment: A max. of 100 (50-50)
points can be obtained from the two midterms. The end-of-semester grade is awarded on the basis of a combined total of 51 points from the two papers.

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

- **1st midterm**: 50
- **2nd midterm**: 50
- **total**: 100

Percentage of exam elements within the rating

Conditions for obtaining a signature, validity of the signature

In order to obtain a signature, the student must achieve at least 50% of the points available under point 3.3.

Issuing grades

Excellent	91
Very good	87,5-90
Good	75–87
Satisfactory	62–74,5
Pass	50–61,5
Fail	0-49,5

Retake and late completion

There is no minimum requirement for each midterm, either of them can be made up at the time announced as a make-up in advance during
the academic term according to the announced timetable. Either of the two midterms may be corrected, but in this case the new result will be taken into account as the new result of the previous and the new result. If the student is unable to obtain a grade other than unsatisfactory by making up, the student will not be allowed to repeat more times in the semester in question.

Coursework required for the completion of the subject

participation at classes	56
preparation for assessments	56
individual learning	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: 07.07.2024.

III. COURSE CURRICULUM

THEMATIC UNITS AND FURTHER DETAILS

Topics covered during the term

In order to achieve the learning outcomes set out in 2.2, the subject consists of the following thematic blocks. These thematic elements are scheduled in the course syllabuses of the courses offered in each semester according to the calendar and other constraints.

1 The concept and importance of the supply chain.
2 Objective functions of the supply chain.
3 Basic information and operational problems of the supply chain and their possible solutions.
4 Strategic and operational issues of site planning.
5 Practical application of the ADD algorithm.
6 Optimising a site from a logistical point of view.
7 Basics of procurement logistics.
8 Logistics-based development of customer service systems.
9 Typology and basic models of transportation problems.
10 Lean-based process improvement in logistics systems.
11 Impact of the concept of Industry 4.0 in logistics processes.

Additional lecturers

Kelemen Tamás mesteroktató kelemen.tamas@gtk.bme.hu

Approval and validity of subject requirements