SUBJECT DATASHEET

LOGISTICS – SUPPLY CHAIN MANAGEMENT

BMEGT20MN10

I. SUBJECT DESCRIPTION

1. SUBJECT DATA

Subject name
LOGISTICS – SUPPLY CHAIN MANAGEMENT

ID (subject code)	BMEGT20MN10

Type of subject
contact lessons

Course types and lessons

Type	*Lessons*
Lecture	2
Practice	2
Laboratory	0

Type of assessment
term grade

Number of credits
5

Subject Coordinator

Name	*Position*	*Contact details*
Kelemen Tamás	senior lecturer	kelemen.tamas@gtk.bme.hu

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

Subject website
https://edu.gtk.bme.hu

Language of the subject
magyar - HU; angol - ENG

Curricular role of the subject, recommended number of terms

Direct prerequisites

Strong	Termelés- és szolgáltatásmenedzsment (BMEGT20M013) / Production and Organization Management (BME
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: 580005/7/2022. Valid from: 26.01.2022.

2. OBJECTIVES AND LEARNING OUTCOMES

Objectives

The main objective of the course is for students to understand the logic of the supply chain concept and, as part of it, the basic logistics processes of companies. They will learn the basic models and objective functions of purchasing, production and sales logistics. We review the problems of collaboration between corporate areas required to apply modern management concepts and the supply chain approach.

Academic results

Knowledge

1. have knowledge of the basic concepts and classical models of logistics processes.
2. acquired knowledge and basic algorithms related to site planning.
3. know how to design supplier evaluation systems.
4. are aware of the tasks of production logistics.
5. can solve the basic problems of distribution logistics.

Skills

1. initiate, compile and implement logistics projects in team work, primarily in a multidisciplinary environment.
2. plan, organize, direct and manage the logistics workflows of competitive sector and public sector organizations either domestically or internationally.
3. solve tasks related to the management of logistics processes, to prepare analyses, reports, surveys, to perform inde-pendent and group work.
4. identify logistical problems and prepare decisions for their solution, to obtain and analyse the necessary information.
5. identify and answer strategic issues in the supply chain.

Attitude

1. demonstrate problem-sensitive, proactive behaviour in the interest of quality work, is constructive, cooperative and proactive in projects and group tasks.
2. are susceptible to the reception of new information, new professional knowledge and methodologies, open to taking on new, independent and cooperative tasks and responsibilities.
3. seek to develop their knowledge and working relationships, in this cooperation with their colleagues.

Independence and responsibility

1. under general professional supervision, independently perform and organize the tasks specified in the job description.
2. independently organizes the analysis of logistics processes, data collection, systematization, evaluation.
3. take responsibility for their analyses, conclusions and decisions.

Teaching methodology

Lectures, written and oral communication, case studies, use of IT tools and techniques during the presentation and tasks to be done independently or in group.

Materials supporting learning

- Az oktató által kiadott oktatási segédletek a tárgy Moodle oldalán. (letöltés helye: https://edu.gtk.bme.hu)
- Szegedi Zoltán-Prezenszki József: Logisztika-menedzsment. 4. jav., bővített kiadás, Kossuth Kiadó, 2010
- Szász Levente, Demeter Krisztina: Ellátásilánc-menedzsment, Akadémiai Kiadó, 2017
- Dr. Szegedi Zoltán: Ellátásilánc-menedzsment, Kossuth Kiadó, 2012
- Course materials uploaded to the Moodle page of the course. (available at: https://edu.gtk.bme.hu)
- Reid, R.D. & Sanders, N.R.: Operations Management: An Integrated Approach, 7th Edition, Wiley, 2020

II. SUBJECT REQUIREMENTS

TESTING AND ASSESSMENT OF LEARNING PERFORMANCE

General Rules

In the case of the English language programme, the assessment of the learning outcomes formulated in point 2.2 is based on two midterm
written tests (partial performance assessment).

Performance assessment methods

Detailed description of performance evaluations performed during the term: 1) Partial performance assessments: two midterm written tests (80-80 minutes) for max. 100 points (50-50). The minimum requirement is to achieve min. 50 points from the two midterms.

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

- **Mid-term test I**: 50
- **Mid-term test II**: 50
- **Total**: 100

Percentage of exam elements within the rating

Conditions for obtaining a signature, validity of the signature

The condition for obtaining the signature is that the student achieves at least 50% of the score obtainable according to point 3.3.
The obtained signature is valid until the required semester according to the Code of Studies.

Issuing grades

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

Retake and late completion

1) There is no individual minimum requirement for each midterm performance assessment, either of the two midterms may be retaken at
the time announced in advance during the retake period. 2) Due to its nature, group work participation cannot be replaced, improved, or otherwise replaced. 3) Either of the two midterms can be retaken, but in the case of retake, the new result is taken into account. 4) If the student is not able to obtain a grade other than Fail with the replacement, then the student does not have the opportunity to make further retakes in the given semester.

Coursework required for the completion of the subject

participation in contact hours	14
participation in practice	14
preparation for assessments	54
independent study of the designated written materials	54
Total	150

Approval and validity of subject requirements

Consulted with the Faculty Student Representative Committee, approved by the Vice Dean for Education, valid from: 10.01.2022.

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 Az ellátási lánc fogalma, jelentősége.
2 Az ellátási lánc célfüggvényei.
3 Az ellátási lánc alapvető információs és működési problémái és azok megoldási lehetőségei.
4 Telephelytervezés stratégiai és operatív kérdései.
5 Az ADD algoritmus gyakorlati alkalmazása.
6 Telephely logisztikai szempontú optimalizálása.
7 Beszerzési logisztika alapjai.
8 Vevőkiszolgálási rendszerek logisztikai alapú fejlesztése.
9 Szállítási problémák tipizálása és alapmodelljei.
10 Lean alapú folyamatfejlesztés a logisztikai rendszerekben.

Additional lecturers

Approval and validity of subject requirements