SUBJECT DATASHEET

Today's Quality Management Challenges

BMEGT20MN60

I. SUBJECT DESCRIPTION

1. SUBJECT DATA

Subject name
Today's Quality Management Challenges

ID (subject code) BMEGT20MN60

Type of subject
contact lessons

Course types and lessons

Type	*Lessons*
Lecture	2
Practice	0
Laboratory	0

Type of assessment
term grade

Number of credits
3

Subject Coordinator

Name	*Position*	*Contact details*
Dr. Surman Vivien	associate professor	surman.vivien@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, English - EN

Curricular role of the subject, recommended number of terms
Programme: **MSc in Engineering Management**
Subject Role: **Compulsory**
Recommended semester: **0**

Direct prerequisites

Strong	specializációra besorolás/enrolled to specialisation
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: 580162/10/2026 registration number. Valid from: 18.03.2026.

2. OBJECTIVES AND LEARNING OUTCOMES

Objectives

The subject builds on the knowledge of the quality management field. Its purpose is to present the challenges that organizations face during the practical implementation of traditional quality management concepts and approaches and the application of related methods and tools. It provides students with a comprehensive critical overview of their use, taking into account today's trends and many sector-specific features. During the semester, we review the real impact of globalization, digitalization, technological development, sustainability, and changing customer expectations from a quality management point of view. Students can learn how to improve organizational performance using quality management models and tools through the course.

Academic results

Knowledge

1. Students will know the newest trends of quality management.
2. Student will know the role of quality management in the successful operation of organizations.

Skills

1. Students will be able to professionally participate in solving quality management problems, preparing and/or making such decisions.
2. Students will be able to communicate about quality management in a professionally appropriate manner.

Attitude

1. Students will be open to new results of quality management.
2. Students will strive for cooperation in teamwork.
3. Performs tasks independently in the analysis of quality management problems.

Independence and responsibility

1. Takes responsibility for decisions regarding quality management.

Teaching methodology

Lectures, theoretical model interpretation, exercises, case studies independently and in group work.

Materials supporting learning

- Az oktatók által kiadott oktatási segédletek (https://edu.gtk.bme.hu)
- Kiran, D.R. (2017) Total Quality Management key concepts and case studies, Elsevier.
- Evans, J.R. – Lindsay, W.M. (2017) Managing for Quality and Performance Excellence, 10th ed., Cengage Learning.

II. SUBJECT REQUIREMENTS

TESTING AND ASSESSMENT OF LEARNING PERFORMANCE

General Rules

The assessment of the learning outcomes formulated in point 2.2 takes place in one midterm and in partical performance assessment.

Performance assessment methods

A. Detailed description of the performance assessments carried out during the term: I. 1 written midterm for 100 points. II. Active lecture participation and submission of tasks developed in groups (partial performance assessment), from which a maximum of 70 points
can be included in the final result. The subject can be completed with a midterm and/or partial performance assessment, but with the partial performance assessment at a maximum of 70% (grade 5 cannot be obtained only with partial performance assessment). The formation
of teams and the participation in teamwork is voluntary. Maximum 100 points can be achieved from the midterm and partial performance
assessment together. Achieving a minimum of 50% from them together is the requirement for completing the subject.

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

- **Midterm**: 100
- **Partial performance evaluation (active participation and group tasks)**: 70
- **Total**: 100

Percentage of exam elements within the rating

Conditions for obtaining a signature, validity of the signature

Issuing grades

Excellent	90
Very good	80-89
Good	70-79
Satisfactory	60-69
Pass	50-59
Fail	0-49

Retake and late completion

1) The midterm can be retaken according to the Code of Studies. The result achieved at the retake is the one included in the final result. 2) Due to its nature, active participation and group work cannot be replaced or improved in any other way.

Coursework required for the completion of the subject

participation at the lectures	24
preparation for the performance evaluation	26
group work	40
total	90

Approval and validity of subject requirements

Consulted with the Faculty Student Representative Committee, approved by the Vice Dean for Education, valid from: 02.03.2026.

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. In the syllabus of the courses announced in each semester, these topics are scheduled according to the calendar and other conditions.

1 Integration of new technologies into quality management systems.

2 Regulatory compliance and quality management.

3 Changing customer expectations and their management.

4 The role and challenges of sustainability in quality management.

5 Case studies, good practices and current trends in quality management.

6 Sectorial quality management systems and their current changes

Additional lecturers

Approval and validity of subject requirements