



SUBJECT DATASHEET

I. SUBJECT DESCRIPTION

1. GENERAL DATA

1.1. *Subject name (in Hungarian, in English)*

Summer Internship • Summer Internship

1.2. *Neptun code*

BMEGEÁTBKSZ

1.3. *Type*

study unit without contact hours (criteria unit)

1.4. *Course types and number of hours (weekly / semester)*

course type	number of hours (weekly)	nature (connected / stand-alone)
lecture (theory)	-	-
exercise	-	-
laboratory exercise	-	-

1.5. *Type of assessments (quality evaluation)*

signature

1.6. *ECTS*

0

1.7. *Subject coordinator*

name: Dr. Benedek Tamás (76511246251)
post: adjunct
contact: benedek@ara.bme.hu

1.8. *Host organization*

Department of Fluid Mechanics (<http://www.ara.bme.hu>)

1.9. *Course homepage*

<http://www.ara.bme.hu/oktatas/tantargy/NEPTUN/BMEGEATBKSZ>

1.10. *Course language*

hungarian, english

1.11. *Primary curriculum type*

mandatory criteria

1.12. *Direct prerequisites*

Strong prerequisite:	-
Weak prerequisite:	-
Parallel prerequisite:	-
Milestone prerequisite:	-
Excluding condition:	-

(the subject cannot be taken if you have previously completed any of the following subjects or groups of subjects)

2. AIMS AND ACHIEVEMENTS

2.1. Aim

The aim of the course is for the student to gain professional experience in a company that is active in the field of mechanical engineering. The current internship topic is designated by the works consultant, which the student must elaborate in sufficient detail. In this way, the student gets an insight into the operational and work processes of companies operating in the field of mechanical engineering, can receive professional advice from the engineers already working there, and can establish and further develop his practical knowledge.

2.2. Learning outcomes

Competences that can be acquired by completing the course:

A. Knowledge

- It systematizes the knowledge acquired in the field of mechanical engineering during the internship.
- He / she was informed about the details of the field of mechanical engineering learned during the internship.
- He has the minimum expected professional experience after the internship.
- Gather in a report the most important new knowledge learned during your internship.
- He sees the connections between his previous studies and the new knowledge gained during his internship.
- It interprets the experience gained during the internship.
- It systematizes your existing knowledge and new knowledge gained during your internship.
- Understands the practical aspects of the field of mechanical engineering learned during the internship.
- He has knowledge and experience in the field of mechanical engineering beyond his university studies.
- He / she is familiar with the main professional challenges of the field learned during the internship.

B. Ability

- Apply the knowledge acquired in the field of mechanical engineering during the internship.
- He / she is able to use the knowledge acquired during his / her later work, during his / her internship.
- Use your professional experience later in your career.
- Together, they apply the knowledge they have previously acquired and the new knowledge they have acquired during their internship.
- Describes the experience gained during the internship.
- Outline the new knowledge gained during the internship in the light of the existing ones.
- Use your new knowledge gained during your internship with your existing ones.
- Is able to distinguish between theoretical and practical aspects of the field learned during the internship.
- Apply your internship experience during the internship.
- It solves the main professional challenges of the field of mechanical engineering learned during the internship.

C. Attitude

- He constantly monitors his work, results and conclusions with the help of his supervisor and consultant.
- It continuously expands your knowledge of your chosen field of mechanical engineering.
- He is open to using information technology tools and acquiring new skills when needed.

- It strives to get to know the system of tools needed for technical problem solving, to use it error-free and routinely.
- It develops your ability to provide accurate and error-free problem solving, engineering precision and accuracy.

D. Independence and responsibility

- Collaborates with your supervisor and consultant, as well as your fellow students as needed, to expand your knowledge.
- During the internship, you accept well-founded professional and other critical remarks.
- He constantly cooperates with his supervisor, consultant and, if necessary, his fellow students during the internship.
- With his knowledge, based on his analyzes, he makes a responsible, well-founded and independent decision and performs independent work.
- He feels responsible for the problems of energy efficiency and the sustainable use of the environment, as well as for present and future generations.

2.3. Teaching methodology

The student carries out the subject at an external company belonging to the field of mechanical engineering, his work is supervised by an external (operational) consultant appointed by the company. During the consultations and independent work, the student solves the assigned tasks based on the knowledge acquired during the completed subjects. An additional task of the consultant is to monitor the student's work. The work done during the semester must be documented. At the end of the internship, the supervisor evaluates the student's work in writing in proportion to the time spent by the student and depending on the quality of the work.

2.4. Support materials

a) Textbooks

-

b) Lecture notes

-

c) Online materials

<http://www.ara.bme.hu/oktatas/tantargy/NEPTUN/BMEGEATBKSZ>

2.5. Validity of the course description

Start of validity:	2021. April 26.
End of validity:	2024. April 26.

II. SUBJECT REQUIREMENT

3. ACHIEVEMENT CONTROL AND EVALUATION

3.1 General rules

In order to fulfill the subject, three administrative obligations must be fulfilled: 1.) Completion and submission of the application form according to the current (valid) regulation, 2.) Preparation and submission of the professional practice report according to the current (valid) regulation, 3.) Electronic submission of a certificate of completion of the traineeship issued by the representative of the traineeship in accordance with the current (current) regulations. The condition for signing the subject is the completion of the above three administrative tasks.

3.2 Assessment methods

A. Detailed description of mid-term assessments

B. Detailed description of assessments performed during the examination period (if relevant)

Elements of the exam:

1. written partial exam
-
2. oral partial exam
-
3. practical partial exam
-
4. inclusion of mid-term results
-

3.3 The weight of mid-term assessments in signing or in final grading

identifier	weight
------------	--------

3.4 The weight of partial exams in grade (if relevant)

type	weight
written partial exam	0 %
oral partial exam	0 %
practical partial exam	0 %
inclusion of mid-term results	0 %

3.5 Determination of the grade

grade • [ECTS]	the grade expressed in percents
very good(5) • Excellent [A]	above 92%
very good(5) • Very Good [B]	85% .. 92%
good(4) • Good [C]	72% .. 85%
satisfactory(3) • Satisfactory [D]	65% .. 72%
sufficient(2) • Pass [E]	50% .. 65%

insufficient(1) • Fail [F]

below 50%

The lower limit specified for each grade already belongs to that grade.

3.6 Attendance and participation requirements

3.7 Special rules for improving, retaken and replacement

The special rules for improving, retaken and replacement shall be interpreted and applied in conjunction with the general rules of the CoS (TVSZ).

Taking into account the previous result in case of improvement, retaken-improvement:

new result overrides previous result

3.8 Study work required to complete the course

Activity	hours / semester
summary	0

3.9. Validity of subject requirements

Start of validity: 2021. April 26.

End of validity: 2024. April 26.

4. ADDITIONAL INFORMATION

4.1 Primary course

The primary (main) course of the subject in which it is advertised and to which the competencies are related:
mechanical engineering

4.2 Link to the purpose and (special) compensations of the Regulation KKK

This course aims to improve the following competencies defined in the Regulation KKK>

a) knowledge

- Student is familiar with the general and specific mathematical, scientific and social principles, rules, contexts and procedures needed to operate in the field of engineering.
- Student has the knowledge and understanding of the basic facts and limits of the knowledge and activity systems in the field of engineering and of the expected directions of development and improvement.
- Student has the broad theoretical and practical knowledge, methodological and practical skills for the design, manufacture, modelling, operation and management of complex engineering systems and processes.

b) ability

- Student has the ability to apply the general and specific mathematical, scientific and social principles, rules, relationships and procedures acquired in solving problems in the field of engineering.
- Student has the ability to approach and solve specific problems within student's field of specialisation in a multi-disciplinary and interdisciplinary manner.
- Student has the ability to organise cooperation with experts from related disciplines in problem solving.

c) attitude

- Student embraces the professional and ethical values associated with the technical discipline.
- Student strives to respect and enforce ethical principles of work and organisational culture.
- Student strives to plan and carry out tasks to a high professional standard, either independently or in a team.

d) independence and responsibility

- Student has the ability to work independently on engineering tasks.
- Student demonstrates responsibility for sustainability, health and safety culture and environmental awareness.
- Student takes initiative in solving technical problems.

4.3 Prerequisites for completing the course

Knowledge type competencies

(a set of prior knowledge, the existence of which is not obligatory, but greatly facilitates the successful completion of the subject) -

Ability type competencies

(a set of prior abilities and skills, the existence of which is not obligatory, but greatly contributes to the successful completion of the subject) -