



TANTÁRGYI ADATLAP SUBJECT DATASHEET

PPL (PRIVATE PILOT LICENCE)

BMEGT52S800

I. COURSE DESCRIPTION

1. SUBJECT DATA

Course name

PPL (PRIVATE PILOT LICENCE)

Course code

BMEGT52S800

Course type

contact lessons

Kurzustípusok és óraszámok

<i>Type</i>	<i>Lessons</i>	<u>Type of assessment</u>
Lecture	8	exam
Practice	0	<u>Number of credits</u>
Laboratory	0	2

Course leader

<i>Name</i>	<i>Position</i>	<i>Email address</i>
-------------	-----------------	----------------------

Dr. Tóvölgyi Sarolta	assistant professor	tovolgyi.sarolta@gtk.bme.hu
----------------------	---------------------	-----------------------------

Organizational unit for the subject

Department of Ergonomics and Psychology

Subject website

<https://edu.gtk.bme.hu>

Language of teaching

magyar - HU

Curriculum role of the subject, recommended semester

Pre-requisites

strong Nincs

weak Nincs

paralell Nincs

exclusive Nincs

1.13 A tantárgyleírás érvényessége / Validity of the Subject Description

Pre-2017, next review September 2021.

Pre-2017, next review September 2021.

2. OBJECTIVES AND LEARNING OUTCOMES

Objectives

The human physiology and psychology from the perspective of aeronautics is extracted during this class. Students expected to be familiar with the basic principles of the human respiratory system, heart and blood, the side effects of rapid decompression or working in low pressure environment. Regards psychol-ogy students learn how to cooperate with their flight instructor and how the cognitive system works.

Learning outcomes

Knowledge

1. They have comprehensive knowledge of the physiological effects of aviation on the human body.
2. They have comprehensive knowledge of the psychological effects of aviation on the human body.
3. They have comprehensive knowledge of how human information is processed.
4. They have comprehensive knowledge of possible illusions affecting the human senses during flight.

Ability

1. They are able to recognize when unexpected physiological phenomena (eg. hypoxia) in flight affect the pilot's or passengers' body.
2. They are able to recognize when unexpected psychological phenomena (eg. hyperventilation) in flight af-fect the pilot's or passengers' body.
3. They are able to make the right decision and take action when the above phenomena occur.

Attitude

1. They are characterized by sensitivity to human needs. They are characterized by a user-centric thinking and approach.
2. They are characterized by continuous learning skills, broad and thorough education, interdisciplinary in-terest.
3. They are characterized by a system-level thinking and approach.
4. They are characterized by a strong critical and self-critical sense.

Autonomy and responsibility

1. To solve various professional problems, they Awareness of various human performance and external fac-tors affecting the human body in flight.
2. They are open to independently monitor technical, technological and human developments in his / her field.
3. In order ensure the safety of flight, it mobilizes its theoretical and practical knowledge and skills in an autonomous manner, if necessary in cooperation with the other members of the fly deck.

Methodology of teaching

Lectures

Materials supporting learning

- 1. Air Pooley's Manual Book 6 - Human Factors & Pilot Performance

II. SUBJECT REQUIREMENTS

TESTING AND ASSESSMENT OF LEARNING PERFORMANCE

General Rules

The assessment of the learning outcomes set out in point 2.2 is based on two mid-term exams.

Performance evaluation methods

Detailed description of assessments performed during the semester: summative assessment of learning performance: complex, written way of assessment of knowledge and skill types of competence elements of the subject in the form of end-term exams.

Proportion of performance evaluations performed during the diligence period in the rating

- :

Proportion of examination elements in the rating

- written exam: 100%
- sum: 100%

The condition for obtaining the signature, validity of the signature

To obtain the signature, resulting at least 40% of the score of the dissertation, its presentation and the oral exam according to section 3.3 is necessary. The obtained signature is valid for the period according to the general rules of the university.

Grading

Excellent	> 90
Very good	80–89
Good	70-79
Satisfactory	60-69
Pass	40-59
Fail	< 40

Correction and retake

Study work required to complete the course

8
52
60

Approval and validity of subject requirements

Pre-2017, next review September 2021.

III. COURSE CURRICULUM

THEMATIC UNITS AND FURTHER DETAILS

Topics discussed during the semester

To achieve the learning outcomes specified in section 2.2, the subject consists of the following thematic blocks. The syllabus of the specific course announced in each semester shall schedule these elements of topics according to the calendar and other circumstances.

- 1 Human performance and limitations
- 2 The circulation system
- 3 Oxygen and respiration
- 4 Hearing and balance – and illusion
- 5 Sight and visual illusion

Lecturers participating in teaching

Pulay Márk Ágoston tanársegéd pulay.mark@gtk.bme.hu

Approval and validity of subject requirements

Beyond Part I and II of the Subject Datasheet, Part III is approved by the head of the Department of Ergonomics and Psychology indicated in section 1.8 in consultation with the director(s) of the programme(s) concerned.