**Plant protectional mycology MTMNO7007A**

Name and code of the subject: Plant protection mycology MTMNO7007A

Name and title of the person responsible for the subject: Dr. Gabor Tarcali senior research fellow

Additional instructors involved in teaching the subject: Csüllög Kitti

Name and level of the program: Expert of plant protection, MSc

Subject type: obligatory

Teaching timetable of the subject, type of examination: 2 + 1 C

Credit value of the subject: 3

Purpose of teaching the subject:

The student should be familiar with the system of plant pathogenic fungi. Through their most

important morphological and taxonomic characteristics, the life cycle and biology the student

can develop an integrated approach to plant protection against fungal diseases. Fungi, in a

broader sense, are responsible for 40-65% of plant diseases. The topic is one of the defining

parts of plant protection. In detailed plant pathology (per plant), knowledge of these is essential.

Content of the subject (14 weeks)

Lectures:

1. Introduction to mycology

2. Protozoa

3. Chromista (Oomycota)

4. Chromista (Oomycota), Mycorrhizae

5. Fungi (Chytridiomycota; Zygomycota)

6. Ascomycota

7. Ascomycota

8. Ascomycota

9. Ascomycota

10. Ascomycota

11. Basidiomycota

12. Basidiomycota

13. Basidiomycota

14. Summary

Practices:

1. Introduction to mycology

2. Life cycles and biology of Protozoa

3. Life cycles and biology of Chromista (Oomycota)

4. Life cycles and biology of Chromista (Oomycota), Mycorrhizae

5. Life cycles and biology of Chytridiomycota and Zygomycota fungi

6. Life cycles and biology of Acomycota fungi

7. Life cycles and biology of Acomycota fungi

8. Life cycles and biology of Acomycota fungi

9. Life cycles and biology of Acomycota fungi

10. Life cycles and biology of Acomycota fungi

11. Life cycles and biology of Basidiomycota fungi

12. Life cycles and biology of Basidiomycota fungi

13. Life cycles and biology of Basidiomycota fungi

14. Life cycles and biology of Basidiomycota fungi

Type of mid-term examination:

Participation in lectures and practices.

Regular theoretical and practical preparation with periodic inspections.

Method of assessment (semester examination mark - report, practical grade, colloquium,

examination):

Oral examination at the end of the semester.

Teaching aids: Slide presentations of the knowledge to be submitted and the disease lists are available in advance in PDF files.

Recommended literature:

Agrios, G.N. (2005): Plant Pathology, Fifth Edition. Academic Press.

Sambamurti A.P.S.S. (2006): A Textbook of Plant Pathology. IK International.

Richard Gáborjányi, R., Takács, A.P .: Plant Pathology, University of Pannonia, Georgikon

Faculty, Plant Protection Institute, Keszthely

Name and code of the subject: Plant protection law and administration MTMNO7016A

Name and title of the person responsible for the subject: Dr. Gabor Tarcali senior research fellow

Additional instructors involved in teaching the subject:

Name and level of the program: Expert of plant protection, MSc

Subject type: obligatory

Teaching timetable of the subject, type of examination: 3 + 0 C

Credit value of the subject: 3

Purpose of teaching the subject:

The student should get acquainted with the Hungarian plant protection organization and the

current administration. The student should get acquainted with the Hungarian plant protection

legislation. At the skill level, the student should master the rules for the use of plant protection

products and be able to apply them in practice.

Content of the subject (14 weeks)

1. Introduction, historical overview

2. Organization of the plant protection administration, plant protection authorities

3. Plant protection legislation

4. Obligation to protect against pests

5. Regulations for quarantine and dangerous pests, quarantine rules

6. Plant protection regulations in the European Union

7. Plant health rules, plant passport

8. Phytosanitary inspection of propagating material

9. Authorization of active substances and plant protection products

10. Rules for the use of plant protection products

11. Rules for the use of plant protection products

12. Rules for the use of plant protection products

13. Environmental regulations, protection of bees and living waters

14. Legal consequences, administrative procedure

Type of mid-term examination: Participation in the lectures.

Method of assessment (semester examination mark - report, practical grade, colloquium, examination):

Written examination at the end of the semester.

Teaching aids: Slide presentations of the knowledge to be submitted and the disease lists are available in

advance in PDF files.

Recommended literature:

- Current legislation on plant protection (XLVI of 2008 Act, 43/2010. (IV. 26.) FVM Decree,

Directive 2009/128 / EC of the EU Parliament and the Council),

- Gabor Tarcali: Plant Protection Law and Administration, Educational Handbook, 2020