Ecology - BMEEOVKDT71

I. Subject Specification

1. Basic Data

1.1 Title

Ecology

1.2 Code

BMEEOVKDT71

1.3 Type

Module with associated contact hours

1.4 Contact hours

Type	Hours/week / (days)
Lecture	1
Consultation	1

1.5 Evaluation

Exam

1.6 Credits

3

1.7 Coordinator

name	Zsolt Kozma
academic rank	Associate professor
email	kozma.zsolt@emk.bme.hu

1.8 Department

Department of Sanitary and Environmental Engineering

1.9 Website

https://epito.bme.hu/BMEEOVKDT71
https://fiek2.mywire.org/course/view.php?id=2583

1.10 Language of instruction

english

1.11 Curriculum requirements

Ph.D.

1.12 Prerequisites

1.13 Effective date

1 September 2022

2. Objectives and learning outcomes

2.1 Objectives

The aim of the course is to give (i) relevant insight into ecology with attention to the research topics of the participants and (ii) to improve the literature review skills of the participants.

2.2 Learning outcomes

Upon successful completion of this subject, the student:

A. Knowledge

1. Participants will get to know the ecological aspects, methods and data sources relevant for their field for research.

B. Skills

1. Participants will improve their literature review skills

C. Attitudes

1. Participants will acquire proper engineering attitude towards the ecosystem (principles of prevention and precaution, etc.)

D. Autonomy and Responsibility

1. Participants will be able to autonomously assess the ecological consequences of engineering activity in their field

2.3 Methods

Consultation, classroom exercises, self paced homework assignment

2.4 Course outline

Week	**Topics of lectures and/or exercise classes**
1.	Lecture: Principles in ecology

2.	Lecture: Principles in ecology
3.	Lecture: topic is tailored for the interest of the participants
4.	Introduction into homework assignment
5.	Consultation
6.	Consultation
7.	Lecture: nature based solutions
8.	Lecture: ecosystem services
9.	Consultation
10.	Consultation
11.	Consultation
12.	Consultation
13.	Consultation
14.	Presentation of homework assignments

The above programme is tentative and subject to changes due to calendar variations and other reasons specific to the actual semester. Consult the effective detailed course schedule of the course on the subject website.

2.5 Study materials

a) Lecture slides:

- William J. Mitsch, James G. Gosselink Wetlands 5th Edition Wiley, 2015 ISBN-13: 978-1118676820
- William J. Mitsch, James G. Gosselink, Li Zhang, Christopher J. Anderson Wetland Ecosystems 1st Edition Wiley, 2009 ISBN-13: 978-0470286302

2.6 Other information

2.7 Consultation

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This Subject Datasheet is valid for:

Inactive courses

II. Subject requirements

Assessment and evaluation of the learning outcomes

3.1 General rules

The grade will measure the learning outcomes listed under 2.2 and will be decided based on the homework assignment (written material and presentation)

3.2 Assessment methods

Evaluation form	Abbreviation	Assessed learning outcomes
Homework assignment	HW	A.1; B.1; C.1; D.1
Exam	E	A.1; B.1; C.1; D.1

The dates of deadlines of assignments/homework can be found in the detailed course schedule on the subject's website.

3.3 Evaluation system

Abbreviation	Score
HW	50%
E	50%
Sum	**100%**

3.4 Requirements and validity of signature

Participants, who hand in their homework in the Semester or in the Retak week as the latest will receive signature

3.5 Grading system

Grade	Points (P)
excellent (5)	5
good (4)	4
satisfactory (3)	3
passed (2)	2
failed (1)	1

3.6 Retake and repeat

Homework assignment handing in: Possible in the retake week.
Homework assignment presentation: Possible in the Exam period

3.7 Estimated workload

Activity	Hours/semester
Lectures and consultations	28
Homework	62
Sum	**90**

3.8 Effective date

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1 September 2022

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