Water quality classification - BMEEOVKDT82

I. Subject Specification

1. Basic Data

1.1 Title

Water quality classification

1.2 Code

BMEEOVKDT82

1.3 Type

Module with associated contact hours

1.4 Contact hours

Type	Hours/week / (days)
Lecture	28

1.5 Evaluation

Exam

1.6 Credits

3

1.7 Coordinator

name	István Licskó
academic rank	Honorary professor
email	licsko.istvan@emk.bme.hu

1.8 Department

Department of Sanitary and Environmental Engineering

1.9 Website

https://epito.bme.hu/BMEEOVKDT82
https://fiek2.mywire.org/course/view.php?id=2580

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

Development appropriate knowledge in water quality classification of PhD students connecting their specific study area

2.2 Learning outcomes

Upon successful completion of this subject, the student:

A. Knowledge

    1. PhD students will be able to apply the most important basic knowladge of water quality classification, connecting to their specific field

B. Skills

    1. Development the skills necessary for successful treatment of water quality's problems appearing on the specific area of PhD students

C. Attitudes

    1. Arouse the interest of PhD students, furthermore, develop their willingness for cooperation

D. Autonomy and Responsibility

    1. Development the skills that provide for PhD students to solve problems independently

2.3 Methods

On-site lectures and consultations

2.4 Course outline

Week	Topics of lectures and/or exercise classes
1.	Groups in water quality classification (physical, chemical, biological, microbiological, radiological,

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	WFD)
2.	Water quality classification concerning the water uses and to achieve good water quality situation (WFD)
3.	Water sampling, site investigation and laboratory measurement
4.	Most important components concerning the physical investigation
5.	Components of chemical investigation
6.	Micropollutants
7.	Water quality classification concerning the drinking water supply
8.	Water quality classification concerning the respects of wastewater treatment and recipients
9.	Water quality classification concerning the different water use
10.	Biological investigation concerning the water quality classification
11.	Microbiological investigation in the water quality classification
12.	Complex water quality classification concerning the eutrophication of ponds and lakes
13.	A new complex water quality classification methodology - an important part of WFD
14.	WFD

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

2.6 Other information

2.7 Consultation

This Subject Datasheet is valid for:

Inactive courses

II. Subject requirements

Assessment and evaluation of the learning outcomes

3.1 General rules

3.2 Assessment methods

Evaluation form	Abbreviation	Assessed learning outcomes
Examination	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
E	100%
Sum	**100%**

3.4 Requirements and validity of signature

70% attendancy on the contact hours

3.5 Grading system

Grade	Points (P)
excellent (5)	90%
good (4)	80%
satisfactory (3)	70%
passed (2)	60%
failed (1)	<60%

3.6 Retake and repeat

3.7 Estimated workload

Activity	Hours/semester
Active participation on lectures	28
Sum	**28**

3.8 Effective date

1 September 2022

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Inactive courses