Level: master

Course title: E-LEARNING

Status: elective

ECTS: 5

Requirements: none

Learning objectives

Acquiring the basic knowledge on the forms of e-learning and distance learning. Gaining methodological and practical knowledge and skills for design and application of electronic instructional material in chemical education through e-courses.

Learning outcomes

After successful completion of the course, a student is able to:

1. Demonstrate wide systematic knowledge on e-learning and distant learning in historical context.
2. Explain pedagogical implications of e-learning, list and explain practical and educational advantages of e-learning in contemporary formal and informal education.
3. Design and manages e-classroom and e-courses creatively and efficiently, using learning management systems (LMS).
4. Plan, design and produce multimedia electronic instructional material for elementary and secondary school chemistry education.
5. Competently use video-conference equipment and other ICT during e-course.

Syllabus

Theoretical instruction:

Definition and classification of e-learning and distant learning. Distant learning in the historical context. Definition of e-courses and e-classroom. Pedagogical implications of distant learning. Models for incorporation of e-learning into contemporary education. Advantages and limitations of e-learning. Learning management systems. Moodle. Multimedia instructional material in e-courses. Standardization of e-materials. Videoconferencing in e-learning. E-learning of chemistry.

Practical instruction:

Didactic reshaping of the classical study material into e-material in chemistry. Design of instructional material for online chemistry course. Planning and preparation of electronic teaching material for learning management systems. Metadata and SCORM standard. Creation of an online chemistry course in Moodle surroundings.

Weekly teaching load				Other:
Lectures: 2	Exercises: 2	Other forms of teaching:	Student research:	