Level: PhD

Course title: E-LEARNING IN CHEMICAL EDUCATION **DMH606H1**

Status: elective

ECTS: 15

Requirements: none

Learning objectives:

Training in the application of information and communication technologies and the design of electronic learning materials in modern chemistry teaching.

Learning outcomes:

After completing the course, a PhD student is able to:

- demonstrate extensive knowledge of various forms of electronic education in the field of chemical education;
- demonstrate methodological and practical skills in the design and implementation of electronic educational materials in chemistry in the form of electronic courses;
- successfully organize and conduct educational research in e-learning and distance learning.

Syllabus

Theoretical instruction

Virtual classrooms in chemistry. Designing electronic chemical labs and metadata. SCORM standard. The application of video conferencing technology in chemical education. Verification and evaluation of e-publications in the e-education.

Practical instruction

Methodically reshaping the traditional study materials into e-materials in chemistry. Design of training materials for online chemical courses. Preparation of electronic teaching materials for the study of chemistry in the regular classroom. The use of videoconferencing technology in education.

Weekly teaching load				Other:
Lectures: 5	Exercises:	Other forms of teaching:	Student research: 5	