Developing micro MOOCs in Moodle

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MoodleMoot Hrvatska 2023
Center for the use of ICT in pedagogical process
Activities implemented from January 2023 - April 2023

**Dissemination** (more at [https://digitalna.uni-lj.si](https://digitalna.uni-lj.si))
- **Teachers to Teachers Symposium:** 1 event, 45 participants
- **Website:** > 100 news items, 15,535 unique visitors, 94,489 visits

**Trainings**
- **Online workshops** (more at [https://digitalna.uni-lj.si/delavnice/#intenzivne-delavnice](https://digitalna.uni-lj.si/delavnice/#intenzivne-delavnice))
  - 13 online workshops on the didactic use of ICT, > 180 participants
- **Webinars and live workshops** (more at [https://digitalna.uni-lj.si/delavnice/#delavnice-v-ucilnici](https://digitalna.uni-lj.si/delavnice/#delavnice-v-ucilnici))
  - 17 webinars or live workshops on the didactic use of ICT, > 180 participants

**Consultations**
- More than 190 didactic consultations implemented: > 346 participants
- Established community of **multipliers:** 56 educators
- Established community of **integrators:** 35 educators

**Research and development**
- **Pilot renewals:** 62 updates of study subjects with didactic use of ICT in progress
- **One-year projects:** development of a didactic methodology and a comprehensive technical solution to support the implementation of project-based e-learning, the development of micro MOOCs, the building of e-portfolios and the development of artificial intelligence in education (93 educators from 17 members of UL participate)
- **Development of materials** (more at [https://digitalna.uni-lj.si/gradiva/](https://digitalna.uni-lj.si/gradiva/))
  - Developed: > 68 materials on the didactic use of ICT
- **Maintenance of online classrooms:** for 7 members of UL
- **Integrated study environment**
Project "Developing micro MOOCs at UL"

MOOCs (Massive Open Online Courses) are large-scale learning courses that are freely accessible through various online platforms. They typically consist of learning materials that are accessible online and may include reading or solving interactive materials, watching videos, problem-solving tasks, online assessment, interaction with other participants, etc. The aim of such courses is to support the lifelong development of students' knowledge and practices. In micro MOOCs, learning content is presented in a concise and informative format.

Positive impact on:
• developing participants' learning skills
• effective communication between participants
• participants' academic performance

Project purpose:
• an increased need identified for a technical solution that would enable educators to provide comprehensive support in the preparation of (additional) training for students in the form of micro MOOCs
• the development of micro MOOCs requires a lot of extra time for design and production, and for finding a suitable ICT solution to offer UL educators a methodology and pre-prepared templates for technical solutions that could be used and adapted to their own subject area and education for lifelong learning of digital skills and competences for educators and students
• Promoting internationalisation and the visibility of UL in the wider environment
• actively engaging students in the learning process and supporting the development of digital competences and higher-order thought processes.

April 2023 – April 2024

25 teachers from different members of UL
Project "Developing micro MOOCs at UL"

01 Status Overview

In the first phase, we will work with members of UL to review existing solutions for creating micro MOOCs. We will look at the processes and methodologies followed by individuals to implement the solutions, and the technological solutions that enable them to be implemented smoothly.

02 Methodology Development

In the next phase, based on the review of the situation and the needs gathered, we will develop a standardised methodology for the development of micro MOOCs, both from a didactical and technical point of view.

03 Testing of Comprehensive Solution

In the third phase, the participating educators will pilot the technical solutions and test them to support the delivery of the micro MOOCs. The tests will be monitored, evaluated and their strengths, weaknesses and opportunities for improvement will be identified.

04 Dissemination

In the final phase, we will organise Teachers to Teachers good practice exchange events to introduce the wider university environment to the development of micro MOOCs and the ICT solutions that can be used for this.
Some examples of the use of micro MOOCs at UL

- micro MOOCs developed in Moodle
- use of micro MOOCs in different fields of higher education
- different purposes for developing micro MOOCs
- different users of micro MOOCs
Development and use of micro MOOCs for interactive supplementary presentation of study content for which there is not enough time in face-to-face lectures.

- materials, quizzes with questions of different types
- in the field of law studies
- formative assessment of knowledge and immediate feedback
- Law students
Development and use of a micro MOOC to support hybrid learning.

3D videos, quizzes, chats, forums, Zoom meetings

Health Sciences

preparing students for practical lessons

Health Sciences students

https://digitalna.uni-lj.si/2022/03/14/anatomija-na-zdravstveni-fakulteti-in-hibridni-model-poucevanja/
Development and use of micro MOOCs for independent learning. Students are awarded badges for successfully completing the activities, which are then counted as part of the final subject grade (20%).

PDF materials, quizzes, H5P activities, badges

education of future teachers

promoting the development of digital competences (digitally competent teacher)

students
As part of the project-based learning work, the students, future chemistry teachers, worked in groups to develop micro MOOCs in Moodle, which were finally peer evaluated.

- various short materials (e.g. PPT, videos), maximum 10 activities (e.g. H5P, quizzes), summary of performance, survey
- Teacher education, Natural sciences
- In-depth learning and career preparation for students
- chemistry teachers at secondary school

Development and use of micro MOOCs as independent learning postgraduate education, supported by webinars and a one-week practical summer school.

various materials, quizzes, evaluation questionnaires

Health sciences

to enhance the specific knowledge, transversal skills and competences required for the development, manufacture, commercialisation and use of advanced therapy medicinal products

scientists with a Master's degree in a broader field of biomedicine and pharmacy, PhD and postdoctoral students in biomedicine, early-career physicians, scientists and experts from biotechnology companies and regulatory experts

https://eatris.eu/transmed-academy/
24 different training courses developed in the form of micro MOOCs on the didactic use of ICT in the pedagogical process.

various short materials (e.g. H5P presentations, videos, books), various required activities (e.g. quizzes, games, glossaries, databases, forums), final assignments, surveys

Teacher education

learning about innovative teaching approaches, methods and forms of work

Higher education teachers and staff at UL

https://digitalna.uni-lj.si/delavnice/
Summary of the development and use of micro MOOCs in Moodle

**use of different Moodle activities**: quizzes, polls, chats, forums, video meetings, H5P activities, badges, grades

**use in various fields of education**: teacher education, law studies, health sciences, natural sciences

**to support different learning approaches, methods and forms of work**: formative assessment, independent work, project-based learning, blended learning, hybrid learning

**different target users**: students, teachers and staff, employees
Thank you for your attention!

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