

Univerza v Ljubljani



Center UL
za uporabo IKT
v pedagoškem procesu

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>)

- **Teachers to Teachers Symposium:** 1 event, 45 participants
- **Website:** > 100 news items, 15,535 unique visitors, 94,489 visits

Trainings

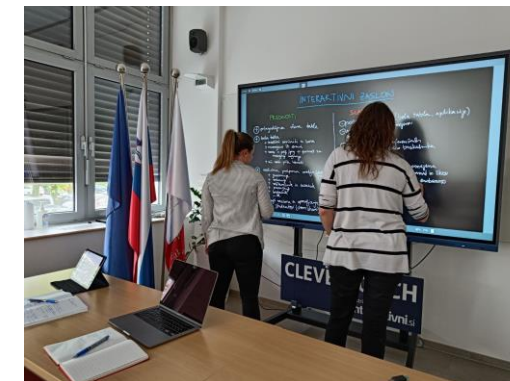
- **Online workshops** (more at <https://digitalna.uni-lj.si/delavnice/#intenzivne-delavnice>)
 - 13 online workshops on the didactic use of ICT, > 180 participants
- **Webinars and live workshops** (more at <https://digitalna.uni-lj.si/delavnice/#delavnice-v-ucilnici>)
 - 17 webinars or live workshops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

Consultations

- More than 190 didactic consultations implemented: > 346 participants
- Established community of **multiplicators:** 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/>)
 - **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"

Univerza v Ljubljani



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micro MOOCs

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



April 2023 – April 2024



**25 teachers
from different members of UL**

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.

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

DISEMINATION

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



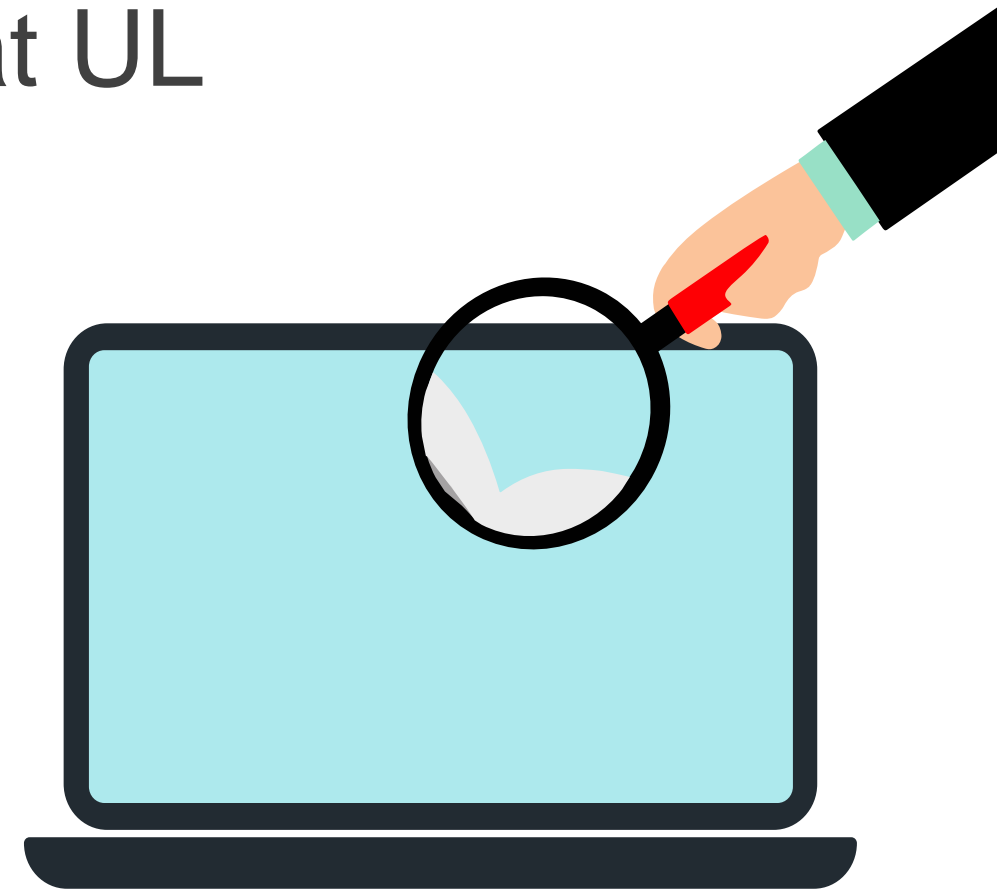
use of micro MOOCs in different fields of higher education



different purposes for developing micro MOOCs



different users of micro MOOCs



CASE STUDY 01

UL Faculty of Law

Vprašanje 1

Ni še odgovora

Točkovano od
1,00
[Vprašanje z
zastavico](#)
[Uredi
vprašanje](#)

D. 19, 1, 13, 29 Ulp. libro 32 ad edictum: *Si quis a pupillo sine tutoris auctoritate emerit, ex uno latere constat contractus: nam qui emit, obligatus est pupillo, pupillum sibi non obligat.*

Ulp. D. 19, 1, 13, 29 (Ulpijan v 32. knjigi k ediktu): Če kdo kupi od nedoraslega brez varuhove avtorizacije, obstaja pogodba samo z ene strani: kupec je namreč zavezan nedoraslemu, nedorasli sam pa ni zavezan.

Označite pravilne trditve:

- a. Pogodba v odlomku je veljaven pravni posel.
- b. Pogodba v odlomku je nična.
- c. Pogodba v odlomku spada med dvostransko obvezujoče pogodbe.
- d. Pogodba v odlomku je *negotium claudicans*.
- e. Če nedorasli izroči mizo, bo smel njeno vrednost kondicirati.
- f. Če kupec plača kupnino, ne dobi pa kupljene mize, bo smel kupnino kondicirati.
- g. Pogodba v odlomku spada med enostransko obvezujoče pogodbe.

Vaš odgovor je nepravilen.

Pravni posel, ki svojepravnega nedoraslega obremenjuje, za polne učinke zahteva varuhovo avtorizacijo. Če te ni, je pravni posel sicer veljaven, vendar šepav, kar pomeni, da je nedorasli iz njega le upravičen, ne pa zavezan.

Če nedorasli izroči mizo, njene vrednosti ne bo mogel kondicirati, ker je izpolnil naturalni dolg. Če kupec plača kupnino, ne dobi pa kupljene mize, bo smel kupnino kondicirati, saj je bil nedorasli neupravičeno obogaten. Kupec zoper nedoraslega ne bo uspel s kontraktno tožbo *actio empti*, saj je obveznost starejšega nedoraslega v tem primeru naturalna.

Pogodba v odlomku je kupna in prodajna pogodba, ki **spada med dvostransko obvezujoče pogodbe**. Res pa je, da v konkretnem primeru zaradi manjka varuhove avtorizacije **učinkuje** enostransko.

Pravilni odgovori so:

Pogodba v odlomku je veljaven pravni posel.,

Pogodba v odlomku je *negotium claudicans*.,

Pogodba v odlomku spada med dvostransko obvezujoče pogodbe.,

Če kupec plača kupnino, ne dobi pa kupljene mize, bo smel kupnino kondicirati.

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



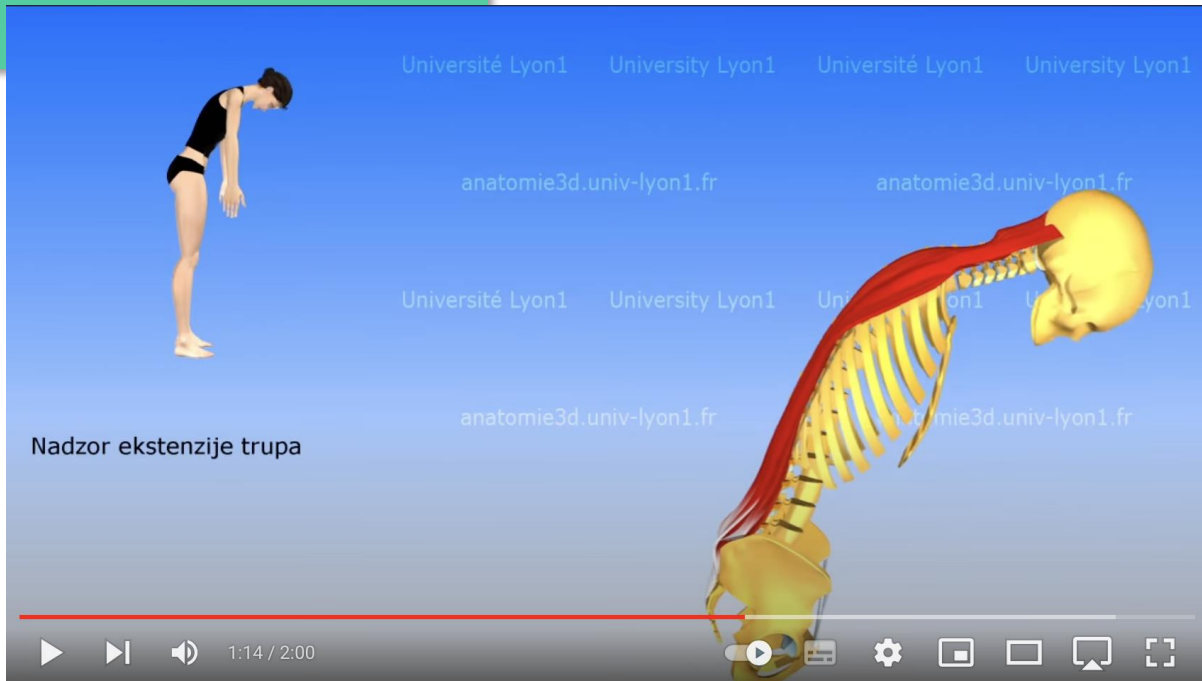
Law students

CASE STUDY

02

UL Faculty of Health Sciences

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/>

CASE STUDY 03

UL Faculty of Education

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%).

Pregledna plošča / Moji predmeti / Pedagoška fakulteta UL / Študij / Peskovniki PEF / A - Peskovniki študijskih predmetov UL PEF / Predmeti s področja računalništva in IKT / DC-RP

Obvestila



Značke od Arnes Učilnice:



DC3 Izdelovanje digitalnih vsebin



Digitalno kompetenten učitelj



DC2 Komunikacija in sodelovanje



DC4 Varnost



DC1 Informacijska pismenost



PDF materials, quizzes, H5P activities, badges



education of future teachers



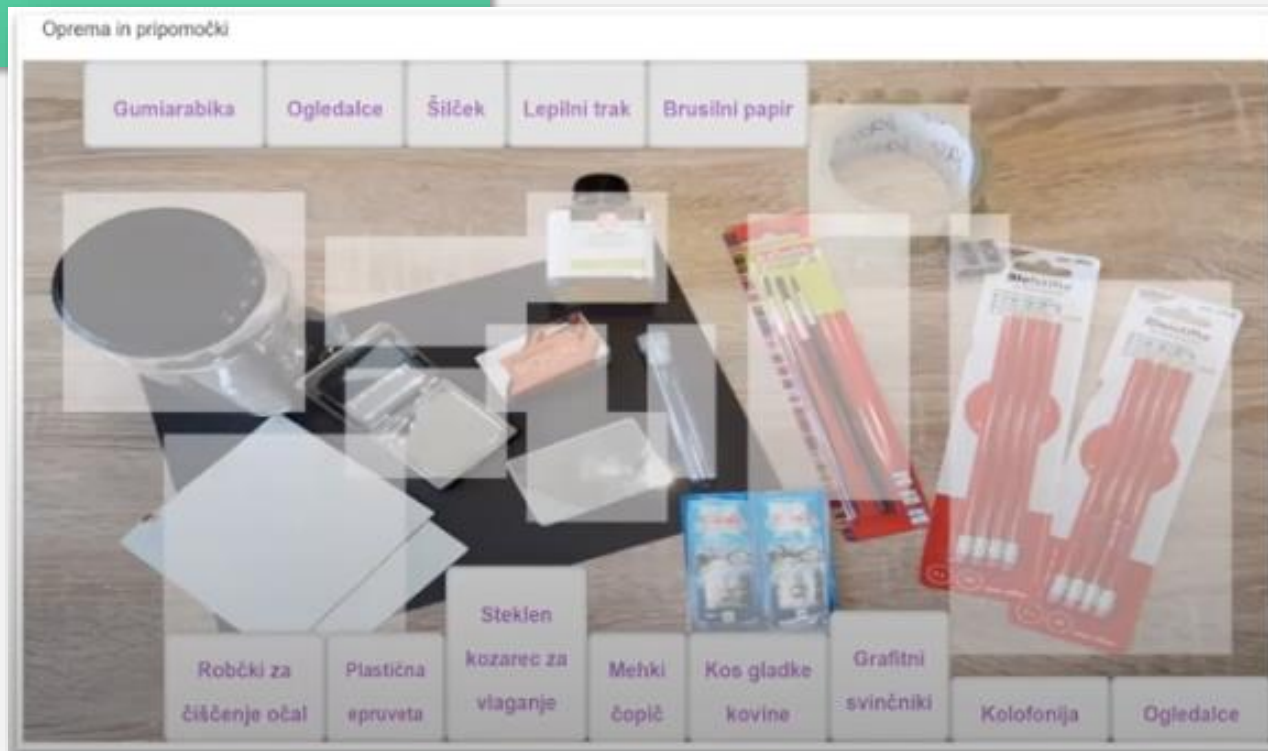
promoting the development of digital competences (digitally competent teacher)



students

CASE STUDY **04**
 UL Faculty of Chemistry
and Chemical Technology

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



<https://digitalna.uni-lj.si/2023/04/03/izdelava-ucnih-modulov-v-obliki-mikro-mooc-ov-s-strani-studentov-bodocih-uciteljev/>

CASE STUDY ⁰⁵ UL Faculty of Pharmacy

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

SELF-PACED ONLINE COURSES

Learn anytime – on our [Elearning platform](#)

Regulatory aspects of Vaccine Development

Introduction to Translational Medicine

Cell & gene therapies - ATMP development



<https://eatris.eu/transmed-academy/>

CASE STUDY 06

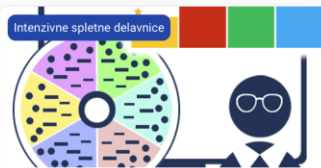
 UL Center for the use of
ICT in pedagogical process

24 different training courses developed in the form of micro MOOCs on the didactic use of ICT in the pedagogical process.



Intenzivne spletne delavnice

Digitalne kompetence učiteljev
Na delavnici boste spoznali Evropski okvir digitalnih kompetenc za učitelje – DigCompEdu. Okvir predstavlja nabor digitalnih kompetenc, ki lahko učiteljem pomaga izkoristiti potencial digitalnih tehnologij za izboljšave in inovacije na področju izobraževanja.



Delavnica: Didaktična uporaba IKT v procesu učenja in poučevanja
Spoznavanje inovativnih učnih metod (pedagoško kolo), ki učinkovito podpirajo in izboljšajo uporabo tehnologije v učnem procesu.



Delavnica: Moodle v izobraževanju 1
Spoznavanje osnovnih funkcionalnosti v Moodleu: naloga, stran, vir, povezava, oznaka, slovar, forum, knjiga, vprašalnik, kviz, wiki.



Delavnica: Interaktivna učna gradiva
Pomen interaktivnih učnih gradiv in pregled Mayerjevih načel za oblikovanje večpredstavnih gradiv. Izdelovanje interaktivnih učnih gradiv (različni kvizi, interaktivni video ...) v spletnem okolju H5P, EdPuzzle, HP Reveal in GoConqr.



Delavnica: Moodle v izobraževanju 2
Spoznavanje naprednih funkcionalnosti v Moodleu: delavnica, pogojno napredovanje, skupine, Badges, Booking, razni vtičniki: H5P, Quizventure, Game ipd.



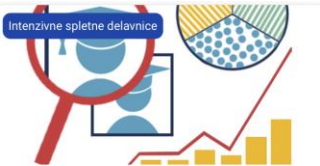
Delavnica: Formativno spremljanje študijskega procesa z uporabo IKT
Pomen formativnega spremljanja v procesu učenja in poučevanja. Pregled različnih IKT-orodij v podporo formativnemu spremljanju: Kahoot, Socrative, Plickers ...



Delavnica: Igrifikacija z uporabo IKT
Vloga iger in igrifikacije v pedagoškem procesu. Pregled različnih IKT-orodij v podporo igrifikaciji.



Delavnica: Sodelovalno učenje z uporabo IKT
Pregled različnih IKT-orodij v podporo sodelovalnemu učenju v pedagoškem procesu: Padlet, Nearpod, Moodle ipd.



Učna analitika v z IKT podprtih učnih okoljih
Na delavnici boste spoznali osnovne pojme, povezane z učno analitiko, se seznanili z možnostmi učne analitike v različnih učnih okoljih. Učna okolja, na katera se bomo osredotočili in lahko celostno podprejo pedagoški proces, so Moodle, Schoology, Canvas LMS, Blackboard LMS ipd.



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



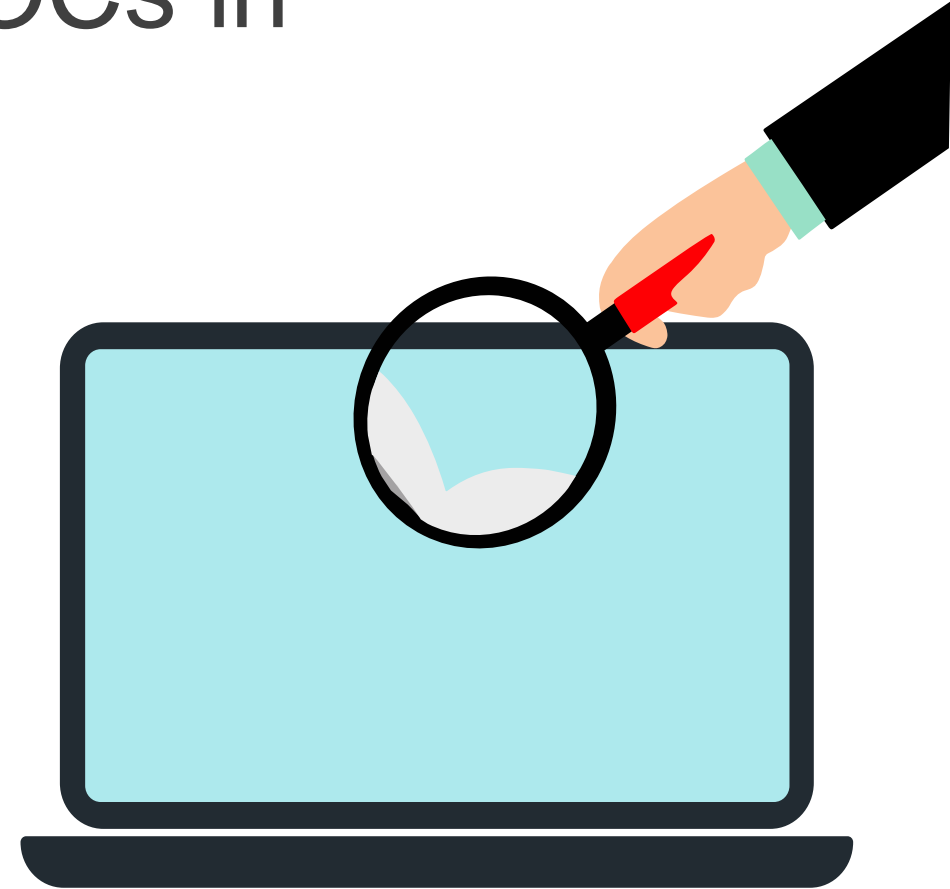
use in various fields of education: teacher education, law studies, health sciences, natural sciences



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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