Digitalization

Digitalization in higher education involves integrating digital technologies, tools, and practices into learning and teaching, academic and administrative functions. It leverages technology to enhance learning and teaching, streamline operations, and foster innovation. This includes considerations for cybersecurity, ethical data use, and privacy issues.

Keywords:

Digital learning, digital tools, digital skills, secure and ethical data management, learning analytics.

Competence fields:

Using digital technologies in active goal-oriented way

Empowering students with actual digital skills

Supporting ethical and safe usage of digital technologies

Analysing learning data with digital tools

1 Student-centred course design

Course ultimate aim: To support teachers to develop a digitally supported course.
For teacher from all study fields.

Module LO:
Identifying, adapting and organizing appropriate digital learning sources for the course, which supports students' active learning
Preparing course content which support development of students' digital skills

Units: Learners needs
Digital resources
Development Digital skills (including ethics and cybersecurity)

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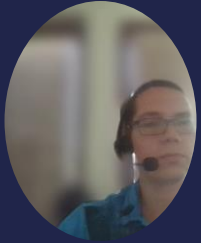PROFFORMANCE⁺

UNIT 1.3 - DEVELOPMENT OF DIGITAL SKILLS

Below you can find 3 short videos (4-6 minutes) which can inspire you how to develop digital skills of your learners.

Digital literacy staying safe online

Searching information

Online collaboration

Digital Literacy – Sta...

Digital literacy:
Staying safe online

Digital Literacy – Sea...

Digital literacy:
Searching online

Digital Literacy – Onli...

Digital literacy:
Online collaboration

2 Teaching Performance and Student Learning Support (Innovative Teaching and Learning)

Module LO:

Identifying, adapting and organizing appropriate digital learning sources for the course, which supports students 'active learning.

Preparing course content which supports development of students' digital skills.

Units:

Usability of digitalization of learning and teaching (Why?)

Digital skills analysis

Cybersecurity and ethics

I use digital technologies in a goal-oriented way to provide an adequate learning environment to students for collaborative and self-regulated learning

UNIT 2.2

Digital skills analysis

To assess digital skills of your students, you can use [DigComp 2.2 framework](). You can find in this framework also learning scenarios on how to develop specific digital skills.

Here's an example of how you can use the DigComp 2.2 framework to analyze the digital skills of your students:

Assessing Students' Digital Skills Using DigComp 2.2

Objective: To evaluate and enhance students' digital competence in alignment with the DigComp 2.2 framework.

1	2	3	4	5
Step 1 Identify Relevant Competence Areas	*Step 2* Design Assessment Activities	*Step 3* Conduct the Assessment	*Step 4* Analyze and Provide Feedback	*Step 5* Reflect and Adapt
+	+	+	+	+

3 Student's Learning Assessment

Module LO:

To develop assessment utilizing appropriate digital technologies and tools

To adequately interpret learning evidence and data

To provide effective feedback to students with the support of digital tools

To develop follow-up steps to improve learning and teaching

Units:

Utilisation of digital technologies for diverse and appropriate assessments

Analysis and interpretation of learning evidences, assessment data and measurement results

Effective feedback and support students to develop their learning practice

Practical exercise

This practical exercise helps you to understand and effectively implement AI tools in the assessment process.

Instructions:
1. Read the provided use case scenario.
2. Answer the following questions based on the steps the instructor should take to integrate AI into the assessment process.

Usecase:
Integrating AI into Assessment for a Higher Education Course

Scenario: A HE instructor is implementing AI to enhance the assessment process for a course. The instructor aims to use AI tools to automate grading, provide personalized feedback, and analyze student performance data to improve learning outcomes. To achieve this, the instructor must design clear assessment objectives, select appropriate AI tools, prepare and input relevant data, and integrate AI into the assessment process. The instructor will also need to continuously monitor AI performance and make necessary adjustments to ensure effective use. Finally, the instructor will review AI-generated insights to refine future assessments and instructional strategies.

1 2 3 4 5

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4 Impact and Mission with and for the Society

Module LO:

To integrate digital tools to improve students' ability to recognize real-world problems

To encourage them to apply their existing technological knowledge to solve novel situations

To use a range of digital technologies to engage stakeholders and collaborate with them related to learning and teaching

Units:

Engagement of stakeholders in learning, teaching and/or assessment with support of digital tools

Stimulation students to solve real-world problem with digital tools help.

Creative reaction on novel situation with digital tools help

Self reflection
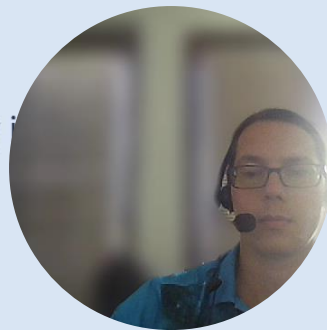
Try to answer these reflective questions for yourself:

1. How do I design assignments and projects that encourage students to think creatively and apply their technological skills in new and innovative ways?

2. In what ways do I provide opportunities for students to collaborate and share their technological solutions to novel problems?

3. How do I assess and provide feedback on students' creative use of technology challenges?

5 Professional Development for the Quality of Teaching

1. I use digital technologies to collaborate with colleagues, share and exchange knowledge and experiences, and co-innovate learning practices.
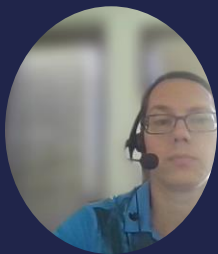
Hint: Through online collaboration tools, discussion forums, and virtual meetings, you actively engage with fellow educators to collaborate on curriculum development, instructional strategies, and educational research. Together, we explore new ideas, leverage collective expertise, and continuously improve our teaching practices.

2. I reflect, critically evaluate, and actively develop the use of digital technologies in pedagogical practice both independently and in collaboration with colleagues.

3. I identify needs and areas of personal professional development in relation to digital innovation.

Hint: You recognize the importance of being updated with current technological advancements and their implications for teaching and learning. Through self-assessment, reflection, and exploration of emerging trends, you proactively seek opportunities to enhance your digital skills and knowledge. You engage in professional development programs, attend workshops, participate in webinars, courses (MOOCs); and connect with experts in the field and so on.

6 Organizational and Administration Related to Teaching

1. I regularly follow and take part the digital communication and collaboration channels of my institution.
Hint: You make it a habit to regularly follow and participate in the official digital communication and collaboration channels provided by your institution to stay informed about important updates, announcements, and discussions related to organizational and administrative aspects of learning and teaching. By actively participating in online forums, chat groups, and email communication, you ensure that you are up to date with institutional initiatives, best practices, and valuable resources shared by colleagues.

2. I apply the digital data protections of my institution and legislation rules.
Hint: You diligently follow established protocols and guidelines to ensure the privacy and security of students and personal data. You familiarize yourself with the specific data protection policies and procedures in place, including encryption, secure storage, and appropriate data handling practices to create a safe and secure digital learning environment for both you and your students.

3. I can work effectively with administrative systems (students administration system)
Hint: You are well-versed in navigating and utilizing the features and functionalities of administrative systems to manage student records, track attendance, input grades, and generate reports. By mastering the administrative tools at my disposal, you ensure accurate and efficient administrative processes.

4. I can effectively evident my academic/professional activities using the digital tools.

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