

DiTEMP



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Digital Curriculum in HEIs



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GOALS

1. To understand the concept of digital curriculum
2. To understand what the new digital technologies area of curriculum is
3. To increase the awareness that digital technologies now is integral part of our society, workplaces and home and it must also become an integral aspect of our education system



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Topics

1. Digital curriculum

1.1. The Digital Curriculum Concept

1.2. How can Faculty Members Contribute Towards Digital Curriculum Development?

1.3. How to Create a Digital Curriculum for Higher Education Students



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Topics

2. What the Digital Technologies Curriculum Means?

2.1. Digital Technologies contents

2.2. Immersive Learning

2.3. Digital Collaboration in Learning

2.4. Networking & Infrastructure



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Digital Curriculum



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Digital curriculum is a comprehensive, customizable collection of resources that are aligned to learning standards and expectations.

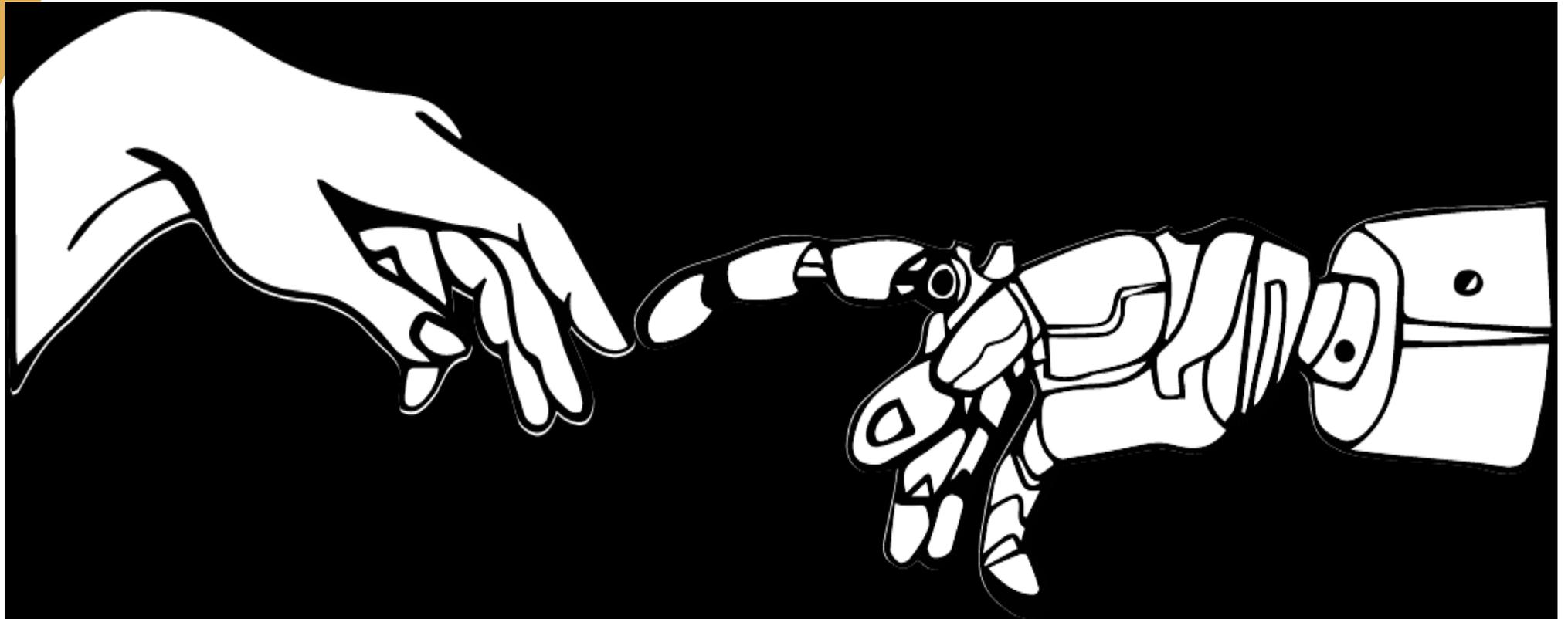
Digital curriculum is a sophisticated option with several connected technology elements aligned to grades which allow students to search for specific topics by the level of difficulty. It also provides teachers with a full course management system, including everything from custom lesson plans to automatic grading.

Digital resources come in a variety of formats, texts, video, images, audio, and interactive media.



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How can Faculty Members Contribute Towards Digital Curriculum Development?



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How can Faculty Members Contribute Towards Digital Curriculum Development?



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➤ **Structuring the course well**

First and foremost, faculty members need to design, structure and teach the online course well. To engage students more and achieve better outcomes, the course should mix chunks of videos, audios, discussions, and other hands-on exercises with text and possibly brief video lectures to make learning fast and fun.

➤ **Curriculum mapping**

One of the best practices in the development and implementation of a higher education curriculum is alignment because it requires a strong correlation between goals with assessment and objectives with instructional activities. Curriculum mapping is the procedure used to determine curriculum alignment that the faculty can use to transform the curriculum more efficiently.

Further, digital curriculum mapping can help faculty describe curriculum design so that it can be used to guide students towards further study, ensuring active learning in different contexts.

How to Create a Digital Curriculum for Higher Education Students

- **Can close achievement gaps**

If implemented properly, it can bring great results for students in higher education.



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How to Create a Digital Curriculum for Higher Education Students

➤ **Prioritize the infrastructure**

- A digital curriculum requires educational institutions to be fully equipped with the technology and the required infrastructure to deliver true digital content.
- This includes wireless broadcasting, adequate bandwidth, and necessary student and teacher personal technology.



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How to Create a Digital Curriculum for Higher Education Students

➤ Digital curriculum can be personalized

- Digital curriculum is designed to be customized to each student's specific needs.
- This process proved to be a milestone for students, as it doesn't just supplement a student's education but can also help manage and drive it.
- The faculty can use it to help individual students progress through a personalized lesson plan.



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How to Create a Digital Curriculum for Higher Education Students

- **Prepare students for the real world**
 - Digital technology is ruling our lives today.
 - More than 80% of middle-skill jobs today require digital skills.



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Go to link below:

[More on How Mobile Learning is Changing the Educational Landscape](https://www.hurix.com/mobile-learning-in-education-impact/)



<https://www.hurix.com/mobile-learning-in-education-impact/>



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How to Create a Digital Curriculum for Higher Education Students

➤ Leverage innovative builder tools available for the digital age

- The process requires the use of various tools to support the inclusion of multimedia instructional content within courses, lessons, units, and activities.
- **Examples of such tools:**
 - [Project](#) -allows you to create interactive multimedia presentations with links, maps, videos, and online quizzes which are visually adapted to different devices.
 - [TED-Ed](#) - lets you create educational lessons in collaboration with both teachers and students.
 - [Animoto](#) - friendly and practical tool, you can create high-quality videos from any mobile device in a short time to inspire students.



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[Digital Solutions for Universities and Higher Education Institutions](https://www.hurix.com/digital-solutions-universities-higher-education-institutions/)



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What the Digital Technologies Curriculum Means?

- The new technology teaching & learning area of curriculum has to be revised in order to strengthen the positioning of digital technologies in education.
- It does not mean to simply teach students how to use digital devices but to provide students with a developed understanding of the computer science principles and programs that drive digital technologies, enabling them to be innovative creators of digital solutions.



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Contents of new digital technologies area of curriculum



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- Digital Technologies
- Immersive Learning and Teaching
- Digital Collaboration in Learning
- Networking & Infrastructure



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Digital technologies

- ✓ Computational thinking for digital technologies
- ✓ Designing and developing digital outcomes
- ✓ Designing and developing material outcomes
- ✓ Designing and developing processed outcomes
- ✓ Design and visual communication



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Main Learning outcomes

- Computational thinking is not the act of thinking about computers or like computers!
- ✓ Instead, computational thinking enables students to express problems and formulate solutions in ways that means a computer can be utilised to solve them.



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Main Learning outcomes

- ✓ Students learn core programming concepts and how to take full advantage of a computer's capabilities.
- ✓ Students develop their understanding of the technologies people need in order to locate, analyse, evaluate and present digital information efficiently, effectively and also ethically.



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Immersive Learning

Immersive Learning means the utilisation of:

- **Virtual Reality (VR)**
- **Augmented Reality (AR)**
- **Mixed Reality (MR) to enhance and deliver student learning outcomes**



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Learning outcomes of immersive learning

- ✓ Use of various storytelling techniques, mediums and media to create interactive narratives and videos.
- ✓ Develop and exercise creativity with designing characters, building 3D models and much more.
- ✓ Comprehend complex concepts by viewing processes, organisms and environments that help in creating interactive digital platforms.



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Virtual Reality

- Fully artificial environment
- Full immersion in a virtual environment

Example:

PlayStation VR and HP Z VR Headsets



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Augmented Reality

- Virtual objects overlaid on a real-world environment
- The real world enhanced with digital objects

Example:

Pokemon Go, Snapchat filters and Google Glass



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Mixed Reality

- Virtual environment combined with real world
- Interact with both the real world and the virtual environment

Example:

Skype on Microsoft HoloLens



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Digital Curriculum in HEIs

Computers would help students gain

“a sense of mastery over a piece of the most modern and powerful technology and establish an intimate contact with some of the deepest ideas from science, from mathematics, and from the art of intellectual model building.”

Seymour Papert ,1980



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Why is digital learning relevant for curriculum transformation in Higher Education?

Digital learning opened new ways for society members to:

- start early careers on a global scale
- to seek for the possibilities to re-enter HE at different stages of life,
- seek for (re-) qualification in a variety of ways
- learn in new, timeless and borderless space sharing
- co-create knowledge, developing and co-authoring innovations



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Why is digital learning relevant for curriculum transformation in Higher Education?



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Go to youtube link bellow:

<https://www.youtube.com/watch?v=MYAcJRyy3y>



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Why is digital learning relevant for curriculum transformation in Higher Education?

The Digital Education
Action Plan (2021-2027)

https://ec.europa.eu/education/education-in-the-eu/digital-education-action-plan_ene and accessible digital education in Europe



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The Digital Education Action Plan (2021-2027)



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Resetting education and training for the digital age

Go to link below:

https://ec.europa.eu/education/education-in-the-eu/digital-education-action-plan_ene and accessible digital education in Europe

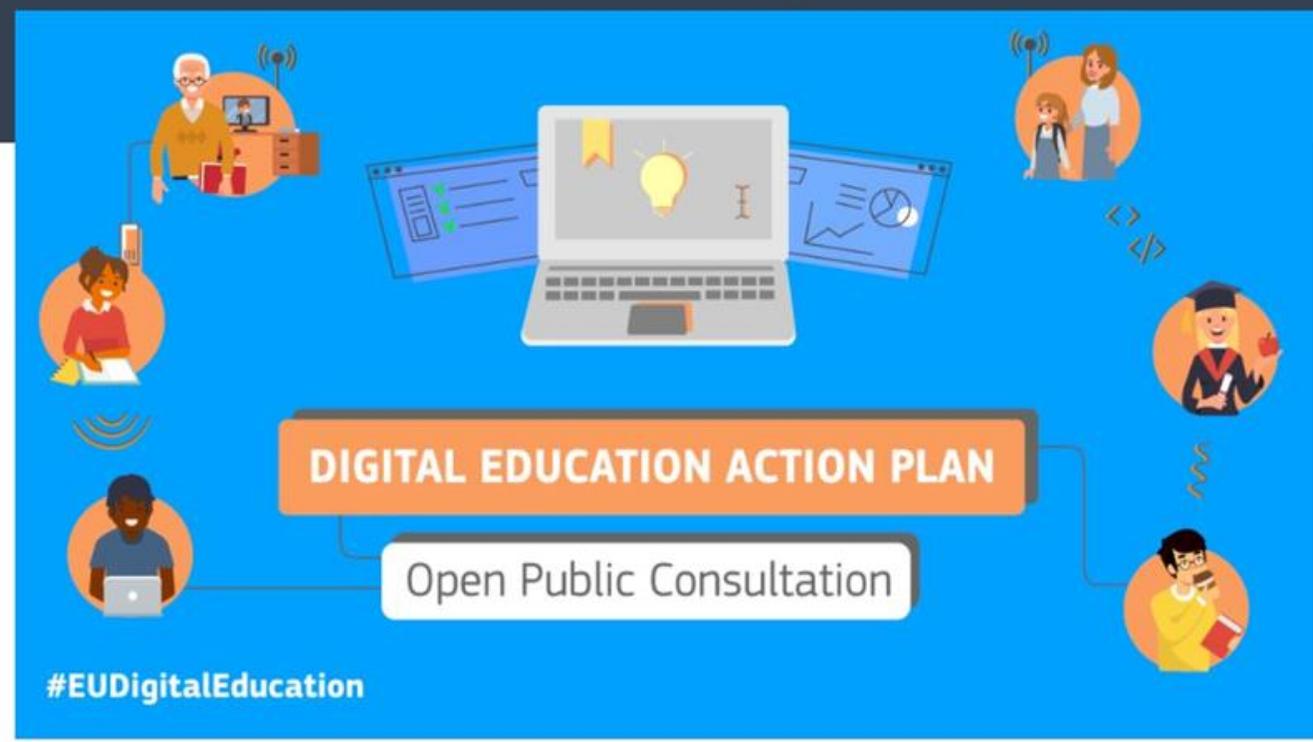


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Public consultation launched on the new Digital Education Action Plan

Publication date: 18/06/2020

The European Commission is today launching an EU-wide public consultation to gather the views of citizens and stakeholders on the future of digital education during the COVID-19 recovery period and beyond.



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