

Newsletter Vol. 4

June 2022



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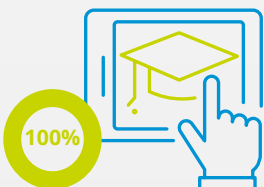


Curricular modernization by implementing MOOCs model/MODE IT

MODE IT stands for the Erasmus+ project „**Curricular modernization by implementing MOOCs model**“, which started on the 1st of October 2019 and has been carrying out by five higher education institutions from Germany, Lithuania, Turkey, Portugal, and Romania. The project seeks to introduce innovative MOOC-based pedagogical approaches to the design and delivery of higher education courses.

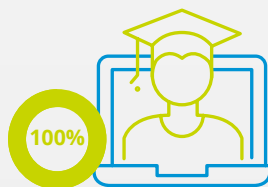
This newsletter presents the MODE IT highlights under the Intellectual Output 3 MOOC-based higher education curricula.

MODE IT Intellectual Outputs (IOs):



IO1:

Online self-assessment tool for academic staff (completed)



IO2:

Open online training program for teachers (completed)



IO3:

MOOC-based higher education curricula (completed)

IO3: MOOC-based higher education curricula are completed!

The aim of this output has been to redesign selected formal curricula at participating 5 HEIs through integrating MOOCs or MOOC-based pedagogies. The selected modules of courses have been redesigned into MOOCs and embedded into a curriculum to be delivered to learners. This piloting was performed by teachers who accomplished their training program within the IO2. The

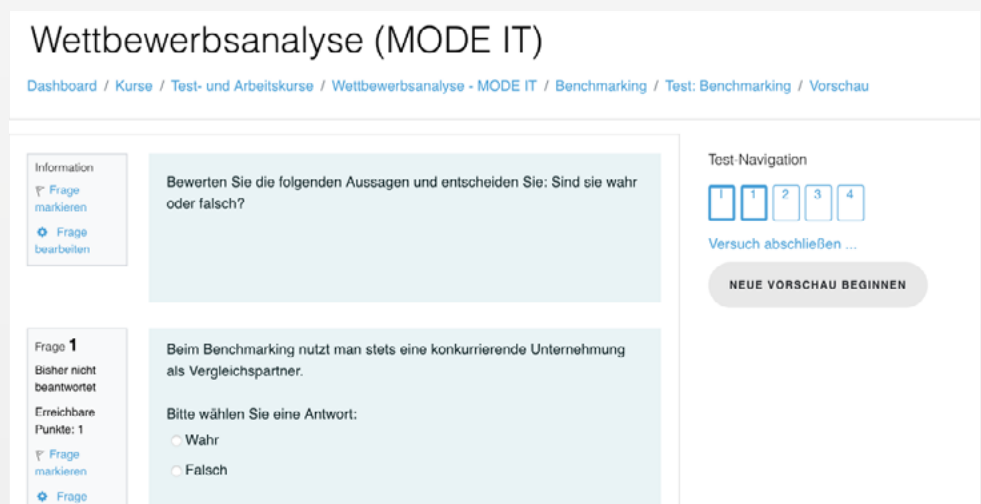
redesigned modules were offered to formal learners as part of their formal curricula, and also to non-formal learners as stand-alone courses.

In total, MODE IT team has redesigned and delivered 12 small-scale MOOCs. Below are the success stories from the MODE IT partners.

MOOC at the FHM

Two professors from the Department of Economics at the FHM, Dr. Ralf Brueining and Dr. Sascha Lord, participated in the exciting MODE IT pedagogical experiment related to the MOOCification of HE courses. What that meant in practice: module **Competitor Analysis**, which was part of the formal course Company Founding, was redesigned to a MOOC of 25 hours. This MOOC was delivered between December 2021 – January 2022 to 17 formal learners from the 9th trimester of the Bachelor study program Craft Management.

The main elements of the MOOC were learning videos enriched with supporting downloadable texts, cases, self-assessment tasks (quizzes) and discussion forum. The MOOC was delivered via the FHM Moodle. In addition, the MOOC was offered to the so-called non-formal learners outside the formal course Company Founding. In total, 32 learners registered for the MOOC, 10 of them received a Certificate of Attendance issued by the FHM. The ECTS earned can also be recognized through passing a written exam at the FHM.



The MOOC was developed in German language. Currently you can view the MOOC contents under this link. Password (Gastschlüssel): #Wettbewerbsanalyse



After a few technical adjustments, the MOOC will be available for the wider audience without any restrictions.

MOOC at Anadolu University

The original course (Ethics in Science and Research Methods) was borrowed from a graduate non-thesis economics program and was full of specific details about research and publication in economics. Thus, the first step was to strip the course from field-specific and method-related content. Then, the second step, was re-stating some of the remaining course content such that it could be easily understood by an average learner. At the end, a four-module course was constructed. The last step was to determine how to deliver the content via learner-friendly features. In this step, short videos, quizzes and supplementary materials were added to each module to maximize fluency throughout the course while keeping the to-do list for learner as clear as possible.

Dr. Çağlar Karaduman and Instructor Aslıhan Bağcı Sezer prepared the learning materials and delivered the MOOC to students in Scientific Ethics and Research Methods course, a compulsory course for all the graduate students (delivered between Jan 3-May 27) and to non-formal learners through Anadolu University's MOOC

platform named AKADEMA (delivered between Jan 17-June 30). All participants (formal-32 & non-formal-39 learners) received Certificate of Attendance in the AKADEMA platform of Anadolu University. Formal learners completed the course as a requirement of their course.

Non-formal learners can present their certificate as fulfilment of one of the requirements of a core course entitled "Scientific Ethics and Research Methods" within the graduate programs of AU.

The MOOC was developed in Turkish language. Currently you can access the course via this link.



The integration of the MOOC "Ethics in Scientific Research" into formal and non-formal learning and evaluation of the student feedback will be presented at the 5th International Conference on Open and Distance Learning (IODL 2022) on September 28-30, 2022.

The infographic illustrates the components of the MOOC. On the left, a circular image shows students working at a table with laptops and documents. Below it, the text "Each Module" is written in large white letters on a blue background. To the right, three circular icons represent the course content: "Video Lectures" (with a woman speaking), "Quizzes" (with a list of quiz types: İntihal, Uydurma, Yazar adlarının değiştirilmesi, Duplikasyon, and İhtima), and "Supplementary Materials" (with a book cover titled "Bilim Etiği Elkitabı" from Türkiye Bilimler Akademisi). The top left corner features the Erasmus+ logo, and the top right corner features the MODETT logo.

MOOCs at the KTU

KTU professors (Linas Ablonskis & Algirdas Sukys; Aušra Urbaityte; Armantas Ostreika) have developed 3 MOOCs:

- **Entity-Relationship Modelling:** developed in Lithuanian and integrated into the formal course

At the end of the delivery of MOOCs, 58 formal and 24 non-formal learners completed the MOOC-based courses.

A case on the integration of the MOOC “Entity-Relationship Modelling” into formal education and student feedback on the course quality and effectiveness of the

Esybių ir ryšių modeliavimas

Home / My courses / Esybių ir ryšių modeliavimas / 2 tema. ER modelio notacija / 2 testas / Preview

Question 6

Not yet answered

Marked out of 1.00

Flag question

Edit question

Ivardykite ryšio elementus.

Quiz navigation

1 2 3 4 5 **6** 7

Finish attempt ...

Start a new preview

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“Databases”, which was delivered for the second-year students, studying Computer Science during February 2022;

- **Multimedia Technologies for Learning Objects Design:** developed in Lithuanian, integrated into the formal course of the master’s degree program, and delivered during December 2021;
- **Artificial Intelligence:** developed in English and successfully integrated into formal master’s degree program.

The MOOCs were introduced to enable students to study on their own and learn the course content better. For each topic of the MOOC, there is a short video and self-assessment quizzes. All three MOOCs were delivered via the KTU Moodle system.



course delivery process will be presented at the 28th International Conference on Information and Software Technologies (ICIST 2022) on October 13th -15th, 2022

Image Histogram. Histogram normalization. Image Thresholding.

Learning outcomes. The learner will be able to:

- To understand and explain the concept of a histogram
- To understand calculations behind histograms
- To understand how image thresholding works in practice

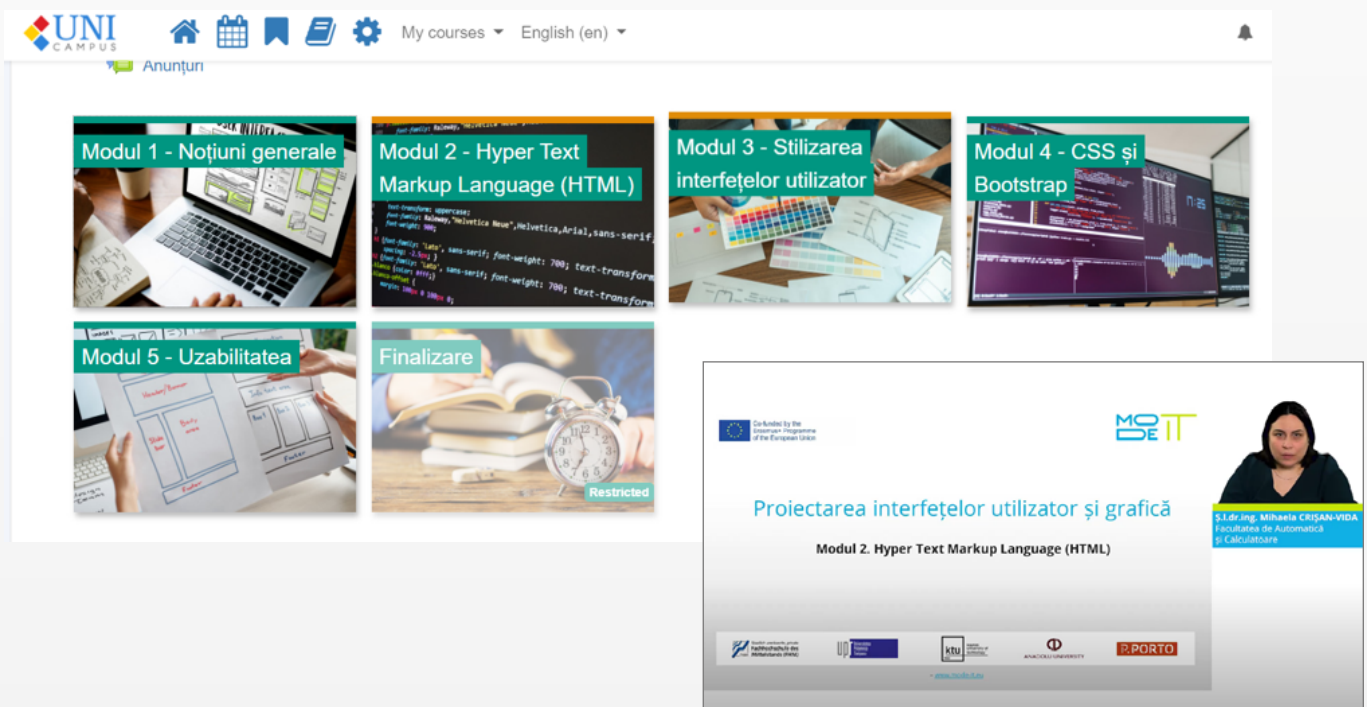
Histogram vs image quality

MOOCs at the UPT

Radu Vasiu, Mugur Mocofan and Mihaela Crişan-Vida redesigned their curricula for MOOC integrated teaching and learning at the UPT. The MOOCs **Internet of Things** (delivered to two different student profiles) and **Web Graphics Development** were delivered to students at the MSc Multimedia Technologies Programme.

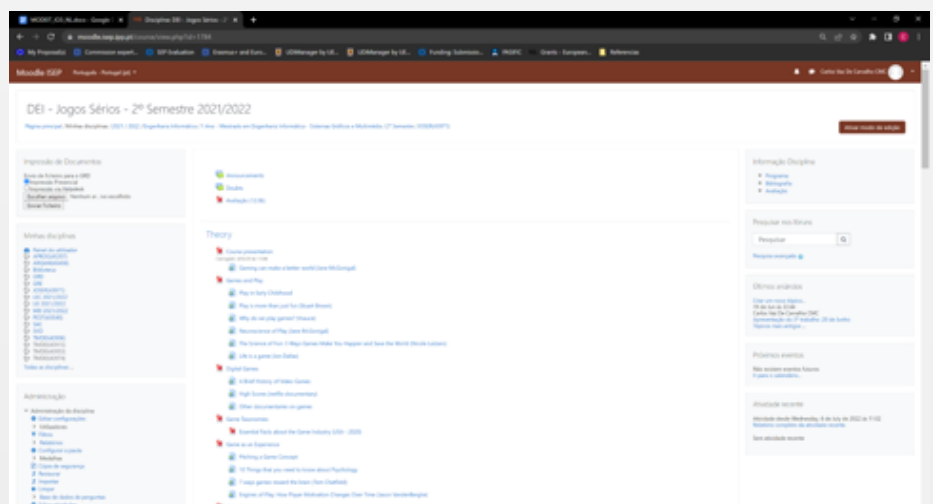
Each module contained activities to be completed by learners, e.g. the students prepared their own websites. Compared to the original version of the course, new tutorials and open educational resources were added and enriched the learning experience of the course.

User Interface Design and Graphics was integrated to a course delivered by Mihaela Crişan-Vida to students in UniCampus:



MOOCs at the IPP

In the Porto Polytechnic, the MOOC implementation was done mostly by teachers of the School of Engineering in the Computer Engineering and Electrical Engineering departments. The addressed programmes were the Graduation in Electrical Engineering and the MSc in Computer Engineering. Paula Escudeiro, Pedro Bessa and Ricardo Costa and Rui Chibante integrated 4 MOOCs- into their curricula. The topics of the MOOCs were:



Game Concepts and Game Design (as part of the Serious Games Course), **Multimedia Application Development Methodologies and Simulation in Power Systems**. The MOOC-based components were also open to students not formally enrolled in those programmes, coming from other schools of the Polytechnic.

In general, students considered the implementation with MOOCs to be highly positive as it provided a flexible, self-adjustable way to learn.



What is coming next?

MODE IT team has hosted five different Multiplier Events (face-to-face and virtual) for promoting the three intellectual outputs of the project. The next and final NL will announce the highlights from these spectacular events!



Program:

Erasmus+, Key action 2: Strategic Partnerships for higher education

Project lifetime:

October 1, 2019 – June 30, 2022

Project coordinator:

Fachhochschule des Mittelstands (FHM)



ANADOLU UNIVERSITY



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