NEWSLETTER NO. 2

Information regarding Conclusion Project Meeting & Main Project Outputs within **DIGI4Teach** project



WHAT'S NEW IN THIS ISSUE:

1 Conclusion Project Meeting 2 Main Project Outputs -Handbook & BSR Journal Special Issue



General information:

visit our web page for more information: https://digi4teach.net.efzg.hr/

PROJECT TITLE: Challenges and practices of teaching economic disciplines in era of digitalization

ACRONYM: DIGI4Teach

PROJECT NUMBER: 2020-1-HR01-KA202-077771
MAIN OBJECTIVE: Exchange of Good Practices

NUMBER OF BENEFICIARIES: 8
PROJECT START DATE: 2020-11-01

PROJECT TOTAL DURATION: 18 + 12 months

PROJECT END DATE: 2023-04-30 FUNDING PROGRAM: ERASMUS+

NATIONAL AGENCY OF THE APPLICANT

ORGANIZATION: HR01 Agency for Mobility and EU

Programmes



Co-funded by the Erasmus+ Programme of the European Union





CONCLUSION MEETING



WHERE AND WHEN?

University of Belgrade - Faculty of Economics and Business, Belgrade, Serbia, hybrid form, 28th February - 1st March 2023

HOW MANY PARTICIPANTS?

21 representatives of partner institutions







WHAT DID WE DO?

First day: official greetings and speeches by representatives of the University of Belgrade - Faculty of Economics and Business, presentation on the overall project goals and objectives, progress and challenges caused mainly by the global COVID-19 pandemic, discussion on further steps and activities involving all partners representatives, discussion on handbook's final preparation - summarising the structure, format and contents, presentation of case studies, presentation of key dissemination and communication tools.

Second day: presentation of the Quality Management Report which covered the review of the quality management tasks and outcomes, monitoring and quality control, activities to be completed according to the project application, presentation of the purpose, form and scope of the final report as well as tasks and deadlines, closing remarks.





HANDBOOK

The most important result of the project is the development of digital competencies and skills needed for teaching economic disciplines in an age of digital transformation. During the project, an analysis of existing teaching tools and practices as well as sharing ideas for developing new innovative tools considering the era of digitization in the field of vocational education was performed.

In the final phase of the project, a publication in the form of this handbook united all findings related to the use of digital technology in teaching economic disciplines between partner countries. By the end of the project, all experience and good practices exchanged between partners have been and will be applied in vocational educational institutions of secondary and higher education in partner countries.

The Handbook is available at: link



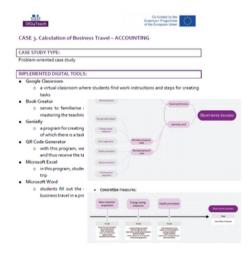
PART A

Part A contains an analysis of the most important descriptive research results conducted within the DIGI4Teach Erasmus+ project regarding the use of digital technology in teaching economic disciplines in partner countries.



PART B

Part B contains twelve case studies from different areas of economics and business (accounting, finance, marketing, tourism and trade) that were prepared using various digital tools and they can be freely used in classes or other forms of education.





HANDBOOK



PART A - RESEARCH ANALYSIS

CONTENT

PART A: ANALYSIS OF THE MOST SIGNIFICANT RESULTS OF THE SURVEY RESEARCH CARRIED OUT WITHIN THE DIGI4TEACH **ERASMUS+ PROJECT**

- 1. PROJECT SUMMARY
- 2. RESEARCH OBJECTIVES AND METHODOLOGY
- 3. MOST IMPORTANT SURVEY RESULTS
 - 3.1. Demographic characteristics
 - 3.2. Digital literacy
 - 3.3. General attitudes regarding technology in teaching
 - 3.4. Online teaching service quality
 - 3.5. Covid-19 and future perspectives
 - 3.6. E-learning in the future
 - 3.7. E-exams
- 4. RESEARCH IMPLICATIONS





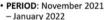
METHODOLOGY

Germany

responses

• SURVEY TYPE: primary research



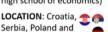




TARGETED POPULATION:

teachers and students (faculty/university and high school of economics)

SAMPLE SIZE: 2,897













- January 2022

RESEARCH IMPLICATIONS

E-LEARNING DURING **PANDEMIC**

- significant digitalization and sudden transition to online learning → issues/challenges that must be addressed
- professors were worried about achieving learning outcomes during pandemic The impact on digital literacy for both students and professors was positive and would not have been achieved in such a short period of time without the pandemic



DIFFERENCES IN PERCEPTION

- high school students generally rate their digital literacy better than university students, while university professors rate their digital literacy better than high school professors
- professors are more sceptical than students regarding mobile technology in classrooms
- professors are more concerned about privacy issues and lack of physical activity than



E-LEARNING IN THE **FUTURE**

- students prefer forms of e-teaching that are flexible and not real-time
- e-learning as an important addition to traditional learning in a form that:
 - · suits educational level
- · ensures the adoption of learning outcomes
- · ensures reliable examination of acquired knowledge





HANDBOOK

PART B - CASE STUDIES



CONTENT

PART B: CASE STUDIES

CASE 1. Financial Statement Analysis - ACCOUNTING

CASE 2. Intra-Year Short-Term Income Analysis - ACCOUNTING

CASE 3. Calculation of Business Travel - ACCOUNTING

CASE 4. CESIM Hospitality – Digital Tool for Hotel & Restaurant Management – FINANCE

CASE 5. Real Estate Price Analysis - FINANCE

CASE 6. Analysis of Credit Indebtedness - FINANCE

CASE 7. Designing a Logo for a Practice Firm - MARKETING

CASE 8. Graduation Trip Organization - TOURISM

CASE 9. Croatia as a Tourism Destination - TOURISM

CASE 10. Key Performance Indexes in Sales Analyses - TRADE

CASE 11. Business Documentation in Practice Firms - TRADE

CASE 12. Introducing a New Product Line to the Market - TRADE



CASE STUDY AREAS

- · accounting 3 case studies
- finance 3 case studies
- · marketing 1 case study
- tourism 2 case studies
 - trade 3 case studies

USED DIGITAL TOOLS

- AnswerGarden
- Book Creator
- Brainscape
- Canya
- CESIM Platform
- Conceptboard
- Emaze
- Genially
- Google Classroom
- · Google Docs
- · Google Drive
- Google Slides (slides carnival)
- Kahoot
- LearningApps
- Loom
- Microsoft Excel
- Microsoft PowerPoint
- Microsoft Word
- Padlet
- Pear Deck
- · QR Code Generator
- Quizlet
- Wordwall by Nearpod, Quizziz by Nearpod, VR by Nearpod, Open Ended Question by Nearpod, Time to Climb by Nearpod, Nearpod Pool

















Special issue entitled:

"Digitalization in Teaching Economic Disciplines: Past, Current and Future Perspectives"

- Publisher: IRENET, Society for Advancing Innovation and Research in Economy
- ISSN 1847-9375 (online)
- Indexed in Scopus, Web of Science (ESCI-WoS), and Portal of Croatian Scientific and Professional Journals

ABOUT THE JOURNAL

SPECIAL ISSUE

There are **seven papers** in which the impact of digitalization in teaching economic disciplines has been analysed and presented.

The survey has been conducted among students and teachers in 4 partner countries (Croatia, Germany, Poland and Serbia) on the use of digital technologies in the teaching process, with a special emphasis on the advantages and disadvantages of their application in teaching. In this special issue the focus has been put on digital competencies, the quality of e-learning, e-exams, digital tools, gamification, and digital and mobile technologies used in the teaching process in the field of economics and business.

Special Issue Vol. 13 No. 2 (2022) is available at: link



CONTENT

Business Systems Research

A Systems View across Technology & Economics

Special Issue - Digitalization in Teaching Economic Disciplines:
Past, Current and Future Perspectives

Editorial

Digitalization in Teaching Economic Disciplines: Past, Current and Future Perspectives Nikolina Dečman, Ana Rep	1	Digital Competencies among Higher Education Professors and High-School	
Research articles		Teachers: Does Teaching Experience matter? Božena Pera, Agnieszka Hajdukiewicz, Danijela Ferjanić Hodak	72
Landscape of e-Learning during Covid-19: Case Study of Economic Disciplines in Croafia Sanja Sever Mališ, Ivana Mamić Sačer, Katarina Žager	8	Who is more eager to use Gamification in Economic Disciplines? Comparison of Students and Educators Nikolina Dečman, Ana Rep, Marion Titgemeyer	96
Pros and Cons of e-Learning in Economics and Business in Central and Eastern Europe: Cross-country Empirical Investigation Agnieszka Głodowska, Krzysztof Wach, Blażenka Kneżević	28	Which Digital Tools dominate Secondary and Higher Education in Economics: Google, Microsoft or Zoom? Ivana Pavić, Vejko M. Mijušković, Lajoš Žager	112
e-Learning in Higher Institutions and Secondary Schools during Covid-19: Crisis Solving and Future Perspectives Mateja Brozović, Marina Ercegović, Gunther Meeh-Bunse	45	Digital Competencies in Selected European Countries among University and High- School Students: Programming is lagging behind Dragana Draganac, Danica Jović, Ana Novak	13:



PROJECT COORDINATOR





PARTNERS



















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