

Application of the e-Learning model in Educational Institutions in Bosnia and Herzegovina



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E-learning model in B&H



- ❖ Unlike some European countries or the United States of America, there are still no clearly defined e-learning strategies in Bosnia and Herzegovina, therefore instances of using online learning are only sporadic and more experimental in nature and can only be assessed as attempts by individual schools to use Google Education in a short period of time (during one week in November).

Education in virtual environment



- ❖ Enables students to have access to numerous materials, contents and experiences which in traditional schooling would not be possible.
- ❖ Implementation of e-learning tools in educational institutions in B&H contributes to competitiveness and provision of skills and knowledge necessary for equal participation in the world trends.

Innovative educational platform, which helps upper-elementary students learn, understand and master the material faster and better



Online platform used in secondary school in Sarajevo



Menu Druga Gimnazija Sarajevo Dženana Rustempašić Launchpad Help & Support Logo

GENERAL

- Dashboard
- Homeroom
- Reviews & Progress
- Curriculum
- Unit Analytics
- Blog 1
- ACADEMICS
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Dashboard

Search student, class or group...

Hi, Dženana!

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You do not currently have any upcoming events or deadlines.

Latest Activity

IB DP IV ITGS HL (Grade 12)

Homework	IA criteria	Dženana Rustempašić	Dec 29, 2018
Homework	Database	Dženana Rustempašić	Nov 5, 2018

IB DP IV Business and Management SL (Grade 12)

Event	Final IA	Dženana Rustempašić	Nov 19, 2018
Essay	Marketing	Dženana Rustempašić	Nov 5, 2018

IB DP III Business & Management SL 2020 (Grade 11)

Essay	PEST analysis	Dženana Rustempašić	Dec 29, 2018
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Druga Gimnazija Sarajevo

Add Personal Event My Full Calendar

QUICKSTART GUIDES

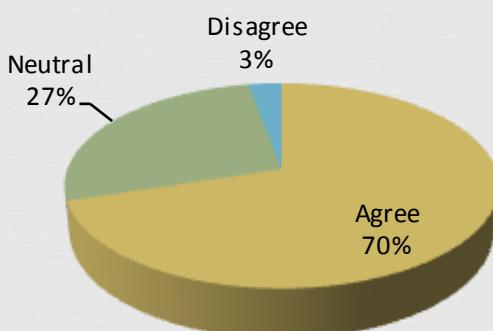
1. Diploma
2. Middle Years
3. Attendance

Subject Centre Default Deadlines Default Exams Theory of Knowledge Extended Essay Creativity, Activity & Service Resources Browse All Sections

Positive attitude towards virtual learning environment



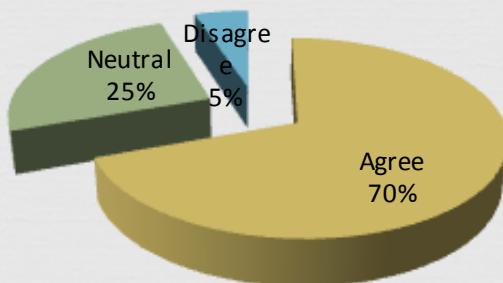
- ❖ VLE helps students in forming closer relationship with teachers and other students
- ❖ VLE allows teachers to provide students with array of information coming from multiple sources, which is more than what they receive in a traditional classroom.



Student satisfaction survey



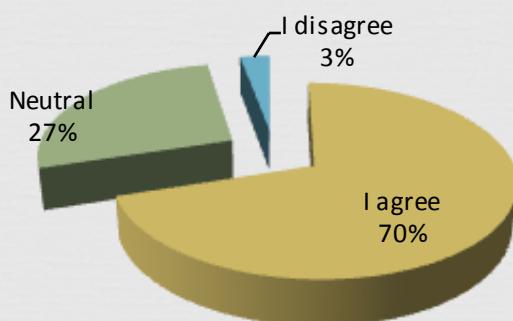
- ❖ Online learning encourage students to have flexible attitude toward learning, or to access materials when and where they want.
- ❖ E-learning increases the constructive interaction between teachers and students



Student satisfaction survey



- ❖ E-learning offers opportunities to discuss materials with other students and teachers which does not happen in traditional teaching where time for questions and discussion is substantially limited.



Access to online materials



- ❖ Organization of electronic subjects enables students to easily access learning content and fulfill tasks according to own time schedule.

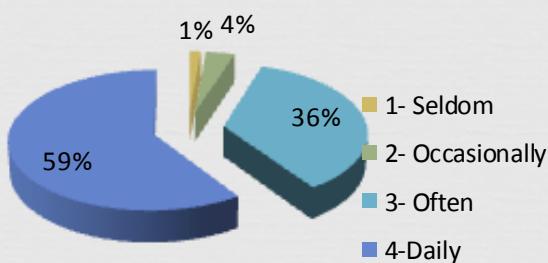
- ❖ Students in less developed regions and those underserved by government, which is often the case in B&H, can utilize the same educational resources as students in world capitals by accessing online lectures at affordable prices.

Relation between usage of Internet and acceptance of e-learning



- ❖ Most students use the Internet every day and communicate through social networks, which significantly contributes readiness to accept new IT solutions in the teaching process.

- ❖ Differences in attitude towards e-learning model among students relate to the purpose and frequency of using the Internet.



Analysis of the main components resulted in a three-factor solution



	Components		
	1	2	3
20. VLE helps the professor to respond to individual learning needs.	.722	.271	-.142
19. VLE supports a close relationship between students and instructors.	.718	.240	-.004
18. VLE enables professors to provide students with different sources of learning.	.657	.296	.235
17. VLE increases the level of interaction between individual students and instructors	.579	.295	.037
16. VLE helps professors to be available to students outside the classroom	.515	.253	.153
15. VLE increases student workload.	.228	.768	.084
14. VLE increases costs for individual students (printing).	.220	.709	.059
13. VLE helps students prepare well for lectures in an online classroom.	.203	.613	.126
12. VLE provides greater transparency for individual learning.	.410	.606	-.037
11. VLE provides students with flexibility in terms of their educational needs (offering access to materials at <u>anytime</u> - allowing them to study when they have time).	.409	.566	-.133
10. VLE increases opportunities for discussion and debate among students outside the classroom.	.128	-.238	-.816
9. VLE supports the exchange of ideas and experiences among students.	.449	-.217	.630
Characteristic root	4.414	1.184	1.003
% of the explained variance	23.017	21.919	10.067

Table 1: The factor structure of the variables

Benefits of Virtual learning environment (VLE)



71% of students agreed that VLE provides flexibility to students in:

- 1) Meeting their educational needs by offering access to materials always and anywhere -allowing them to study when they have time
- 2) Accessing diverse content and learn how to use online materials same as any other student anywhere in the world who are not limited by a national curriculum
- 3) Strengthening adaptability, skills and knowledge in the use of communication tools and softwares that have become standards in the digital age.

Factors hindering the use of e-learning



- ❖ Access to information and communication technologies in schools are inadequate and uneven, with a somewhat better situation in urban areas.
- ❖ Lack of capacity to utilize available technology, since most teachers lack skills necessary for the smooth implementation of the e-learning model.
- ❖ One of the main disadvantages of using e-learning is that it relies on human support and depends on humans to create and prepare course materials or related software.

Conclusion



- ❖ Adopting e-learning by learners in the education system is conditioned by two main factors:
- ❖ Selecting an appropriate online e-learning platform that will offer all the necessary tools for successful e-learning model delivery
- ❖ Designing a virtual learning environment that will allow students to easily access content and communicate with teachers and other students effectively.

Conclusion



- ❖ Positive research results will serve as a basis for establishing a national-level strategy to support the introduction of e-learning as an equal form of education in Bosnia
- ❖ Funds (both material and human) will be allocated with overall goal to enable the implementation of new models of learning adapted to the digital age and globalization changes of the 21st century.
- ❖ For more information or questions email to: drustemp@kent.edu