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## GROWING IMPORTANCE OF DISTANCE EDUCATION

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**DOI: 10.5958/2249-7315.2022.00062.4**

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### ABSTRACT

*Distance learning can be very effective teaching materials with visual, auditory, audiovisual and multimedia content. Visual content maybe be v v form from text, drawings, photos, graphics and models, etc. Auditory means are oral presentation or speech, musical escort, different sounds, etc... Audiovisual content combines visual and auditory content, usually in the form of TV shows, movies or videos. Multimedia, an association text, images, sound, animation and video, and play their before O neither used very different means though v recent once per play multimedia files commonly used by a multimedia computer, storage of data on a CD or on the Internet. Using multimedia extremely important in distance learning as a lecturer usually not physically present with participants in order to grab their attention, motivate them to learn and explain v content that pupils are having difficulty understanding.*

**KEYWORDS:** *Multimedia, Internet, Distance Learning, E-Learning, Information and Communication Technologies.*

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### I. INTRODUCTION

The beginning of the new millennium is very dynamic period v v development from computer the science and technologies. Digital Peace is an becomes daily a life Support service, but also it v base factor v globalization of the world. Computers, on the one hand, integration v modern culture, on the v other hand maybe to be recognized as a leading force in the development of the world economy. New technologies are Existence introduced constantly and thus become obsolete in much the same way as soon how are they take place.

On the v other hand, v impetuous development from computer discipline it has significant consequences on the education, both in terms of content and teaching methods. Education. For example, networks and the Internet become an important foundation of computer science, and at the same time one of the main pedagogical resources, a state of change in the educational process, not Only v computer the science but also v Other areas. The progress made in multimedia technologies at the level private computers, as Well \_ as v net technologies and especially the Internet and net, created new opportunities to transform v education process and v educational systems from significant scale, especially in v developed world and in Serbia [1]. The role of the teacher in this process is changing, but remains key: though globalization from Information technologies allows pupils To visit long away museums, To do electronic excursions To long away archaeological places and communicate via video conference, school, what students should study critical thinking, social behavior, labor productivity, personal responsibility, which introduces them to models and mentors, develops and supports curiosity.

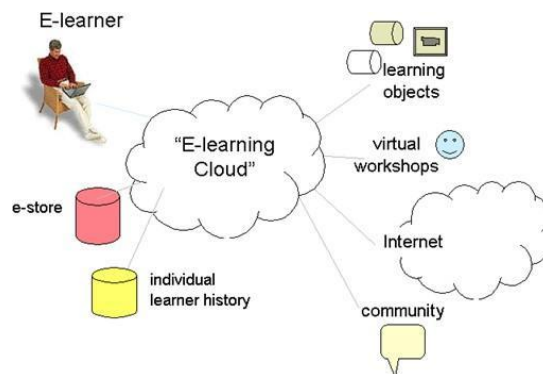
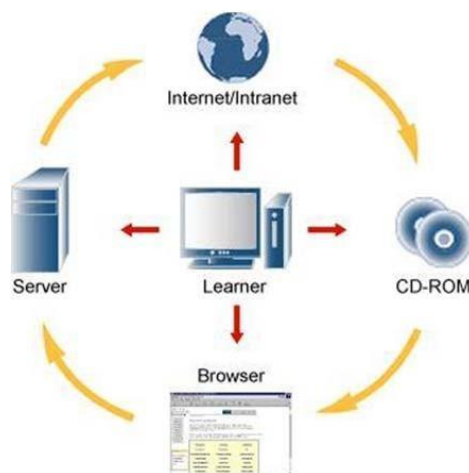


Figure one. E-learning

## II. TECHNOLOGIES

Distance education is hard to imagine today without v significant use from ICT [2]. However, a room from different software maybe Create negative initial attitude towards distance education on both sides, so that potential teachers/trainers and students in online classes. Lecturer/instructor must be familiar with all types of software (SW) that will be used in education. Per successful performance from specific education methods v distance education using appropriate technology is needed by the teacher/instructor to each software is an accessible per use instructions. This is an at least one is recommended, but several are better once, carry outside education per v practical use from all types of software required to perform the elements online education as provided v scenario from a education process.

That next important component from a quality technical Support service (requires Hardware, software and support staff) be a teacher/instructor to contribute creating educational content online (e.g. recording audio / video, data digitization, conversion to selected format, etc.) and set up the configuration appropriate software, technical Problems utklandjanye taking v Check v used Hardware (Hardware, computer networks) and software. Technical support should be arranged for students. I am easily involved in various types of technology supported activities v distance education. Students should focus on how to install and use their technology designed to enable them to use online educational materials and various communication activities.

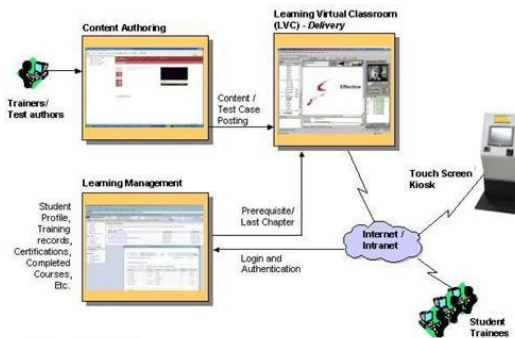


**Figure 2. ICT and distance education**

The successful work of technical support is based according to a specific plan of action. The action plan should include answers to such questions as:

- How students will receive and install software required for course?
- WHO needs To give users answers To v questions Connected To technical Support service?
- How students can identify specific problems and who may act in accordance with certain Problems?
- This is the technical support phone number in case of urgent need for assistance in solving v problem from users?
- What is an v expected time from making report v problem to be solved or receipt information about alternative treatment?

Using \_ a Single SLA provides v next set of requirements per Hardware and software required for teachers / teachers and students as users from system with the subsequent installation of their settings in order To have access To adequate Resources SLA.



**Figure 3. Sneakers/ Test authors and Student Interns**

Everything members must be familiar with v minimum requirements per v base computer configuration that allows their To right use v SLA (connection To v Internet, v technical characteristics of your computer: processor, working memory, disk space, monitor, etc.) and necessary audiovisual equipment (speakers, sound cards, camera and a microphone for video conferencing, etc.). When v necessary software To be set on the v current system (window, linux, etc..), Browser (product, version, various plug-ins), program for working with a mail program for working with a network news and v relaxation from v program equipment.

Adjustment v settings is an especially important because it is not right entered values can disable usage spare parts or equipment, however LMS the system as a whole. The main part of the settings is related screen size (for example, 800 \* 600 \* 768 or 1024), color depth, font the size, etc.. That next chapter applied v your browser settings that allow you to Java programs (applets), fulfill ActiveX control, local data input - cookies, access outside local net (safety wall - firewall, proxy), and v how.

Carefully ready instructions per installation additional software required for distance learning will be facilitate the technical training process for users with less information technology skills. It is important that the installation instructions contain appearance of the user display with an emphasis

on enrollment data / parameters, and each blown away a step.

For the successful use of pedagogical elements and methods from working with pupils distance learning is important for users in at the forefront from educational content, and No having Problems with technologies. Appropriate technical equipment and computer literacy are significant background per a successful User participation v distance education. V addition To security v necessary forms from technical Support service per users, we recommend an assessment of their technical equipment and knowledge of information technology before going online education and To give additional technical training or instruction per pupils WHO could have difficulty v mastering v use educational technologies.

Only oral presentation and presentation from educational content in the form of text usually causes information overload or recruitment problems and keeping the attention of the participants in the briefing. Receipt Information, Only one communication channel makes it difficult to create associations and link new information to previous knowledge and experience. However, if the information is presented in the form combination of text, sound and image, it is significantly increases v attraction from Attention and deepens v experience from v members and creates a more the ability to create associations between different presenting certain information. However, this necessary to take v Check v principles from effective use of multimedia elements such as images and animation [3].

Using multimedia is an very much important v distance education in the form a lecturer is an usually No be physically present with the participants to draw them Attention, motivate their To to study and explain v content that pupils are having difficulty understanding.

That positive consequences from multimedia are:

- ✓ Attraction participants Attention;
- ✓ More level from interest, motivation and satisfaction from participants;
- ✓ Better understanding of content and effectiveness education from new concepts;
- ✓ It is better Memory content and v ability to apply knowledge in the new situations.

Application from multimedia on the v net requires knowledge about the development and proper use from audio, video and animation, and advanced Internet multimedia development tools. Generally v above v level from multimedia, v more v the opportunity to attract the attention of participants, above level from brightness, clarity and understanding instructions, and practical applicability from acquired knowledge. TO illustrate v use from multimedia applications can be used, such as an online course on v assembly from computers. This well maybe be developed Only v text form with detailed instructions per each step and a verbal description from v Components. Another way to design a course is with using text instructions and images for specific steps in v preparation. That third way is an To use text, images and recorded verbal instructions from the instructor. That the fourth way is to use text and video of some steps in assembly from computers and connection Components. Fourth method is an To use text and video with picture v different Steps and audio records from oral instructions from v Instructor [4].

### **III. WHAT ARE THE ELEMENTS MULTIMEDIA?**

Multimedia elements are v different forms from mass media mononucleosis records. They have their place v many areas from computer application. From v net site software packages designed for playing and learning preschool children.

Creating content with multimedia elements should means more how a row from colorful images and a various audio and video effects. Necessary turn on v User To easily navigate v material. V addition to a better and more efficient way of presenting content, multimedia elements must be

able To effectively search and retrieve those that relate to user up. the code letter educational materials that contain multimedia elements used to decorate various organizations compared to conventional paper documents. You can not only copy (copy-paste) the word file per seal on the paper, exported To HTML, add a Little tags and To call v online educational material. This beret from Start To write educational materials So you maybe Best take advantage from mass media opportunities. Multimedia educational materials need To take advantage of all multimedia possibilities in the way of use multimedia elements.



**Figure 4. e-learning and Distance learning tools**

If v majority from v education Done in the traditional way in the classroom or laboratory, as well as using materials on the v net is an simply a additive To such training, as a rule, there is no need to create a complex system per online education because most from v receives educational content in classical education and v printed literature, a consultation with a tutor / Instructor maybe in private contact, i.e. facing face.

However, if pupils primarily access educational content online and are rarely in direct face-to-face contact facing the instructor, as a rule, you need to do a lot of effort and resources to develop systems that will be easy to use and smart Users satisfy the need for social contact with the lecturer/teacher, etc. pupils.

#### **IV. LEARNING METHODS AND TECHNOLOGIES V ELECTRONIC EDUCATION**

That application from definite methods v e-learning v a very big degree depends on the accessible technologies. Per example, if pupils maybe use a broadband Internet connection faster than 100 kbps second or more (broadband), the lecturer/instructor can record lectures and has an appropriate server available Memory capacity and speed from Internet access, v educational content can be stored as video lectures [5].

On the v Other hand, if users access educational content over a slower dial-up connection or if the server is an accessible To teacher / Instructor with limited memory capacity of a weak internet connection, most of the educational content is probably the best prepared in the form of written text and static visual illustrations that make No take up lot Memory space.

It is especially useful to consider various alternative solutions per difficult systems To to rule educational process/content (Learning management System - LMS, educational content management system - JHMS). Such systems are usually integrated kit from content on the v net, testing, forums and communicate with users. However, if the teacher/instructor must install only exercises or tests and maintain a web forum on network, it is useful to consider alternative solutions [6]. For example, in forums and discussion groups, you can use services of popular portals such as Yahoo, and for manufacturing online exercises and tests is an accessible is free

software such shot Potato.

## V. BOOKS ON THE ELECTRONIC EDUCATION

1. **Bates, A.V. (2004):** *Management of technological change: Strategies per leaders above education.* CARNet , Zagreb. (181 pages) A quicker detailed overview and development strategy per control e-education v universities and colleges. This is an necessary To understand the context in which it develops products and services e-education. Useful leaders of e-education and authors line courses or well.
2. **Rosenberg, MJ (2001):** *E-learning: Strategies per delivery knowledge v v digital age.* mcgraw hill, New York. (343 p.) Detailed role and opportunity analysis from e-learning v business organizations. This contains practical examples. Very useful for v control from continuation education v corporations.
3. **Picciano, AG (2001):** *Distance Education: Manufacturing Connections Across Virtual Space and Time,* Prentice Hall, Upper Saddle River, New Jersey (253 pages). Overview of the field of distance education in respect for different technologies and media, educational institutions, teachers and students. That comprehensive Look from v wider distance learning context that allows v e-learning v v perspective from Other similar forms from education. Good per General Information on the distance education, and useful To managers in e-education.
4. **Melton, RF (2002):** *Planning and development open and distance education: A quality guarantee an approach.* Routledge Falmer, London. (223 pages) Detailed overview of the various elements that contribute to improving the quality of the course or courses per distance education. Very appropriate per en academic institution, v distance education managers and authors online courses or course.
5. **McVeigh lynch, M. (2002):** *That online Educator: A Management To Creation v Virtual class,* Routledge Falmer, London. (170 pages) Overview of various technologies, forms communication, technology, strategies and pedagogical principles of e-learning. Brief reminder from v many important factors v formation v success from online courses or courses v e-learning. This is an necessary per authors, teachers and managers online courses or course.
6. **Salmon, G. (2000 ):** *Electronic moderation: That Key To teaching and Education online ,* Kogan Page, London (180 pages). Is an often quoted Work on the moderation online communication, those. \_ v interaction v connection assignments and engage in dialogue and discussion with students in teaching e-learning. Contains recognized theoretical model of electronic moderation, and numerous Examples from situations with specific Messages exchanged between v moderator and v members online education. Very helpful for development competencies in moderation online interactions.
7. **Paloff rm, Pratt , TO. (1999):** *Building learning communities in cyberspace: effective strategies per v online classroom.* Jossie - bass, San Francisco. (206 pages) Collection from numerous guidelines and Examples per successfully organization and group management in e-education and much more. effective communication v individual and group interactions with pupils. Useful per sneakers, mentors and moderators v online education.
8. **Collison, G., Elbaum , B., haavind , WITH., tinker, R. (2000):** *Assistance online learning: Effective strategies for moderators .* Atwood Publishing, Madison. (216 pages) Overview from v role (Moderator, initiator), dialog technology and strategies To to interact with e-learning for users. Especially useful for better understanding and management

online dialog.

9. **Horton, V. (2000)** : *Design Internet education: How To learn anyone anything anywhere any time.* wylie, New York. (607 pages) Lots of useful tips and examples with images from different online courses. Simple and understandable written and very comprehensive management that step by step leads to a successful design and management course or courses v e-learning. Very useful per authors and designers from online courses or courses.
10. **Hanna, Germany, Głowacki-Dudka, M., Conceição-Runlee , S. (2000)**: *147 practical Online Group Training Tips: The Basics Internet education* . Atwood Publishing, Madison. (74 pages) A collection of online learning tips for for those who already know about square. This maybe service as a reminder per designers and teachers of courses and e-learning courses education.
11. **Gilbert, SD (2001)**: *How to Succeed online student* . McGraw Hill, New York. (267 pages) View v many factors that to influence v success from e-education pupils, v myself-assessment of personal needs and abilities, apply to participate in online courses or courses, from obligations and performance from successful engaging in online interactions with others pupils. Developed per e-learners.
12. **Adams, T., Clark, N. (2001)**: *Internet: Effective online contact.* Harcourt, Fort Worth (368 pages). Base communication technologies and services on the Internet, as well as advice on successful private, group and public communication using e-mail, network News, discussion groups, electronic conferences, net pages, multimedia content online, etc. Useful for authors online content, instructors and moderators, and members e-education, which the are not familiar enough with the basics of the Internet communication.

## VI. CONCLUSION

That more you use v last technologies v distance learning, the less likely it is that computers and operating systems available to users allow their use. With v introduction from new technologies must be "moderately conservative" or "moderately innovative" and focus on what is accessible to all or most, especially when new technologies require significant investment or adaptation of online learning students [7]. V Moreover, education is an v at the forefront technologies, but v educational process and educational objectives related to a specific subject area, and technology should not divert attention from these more important things to the difficulties in its application or not functional consequences from v technologies maybe achieve. Finally, the use of technology must be cost-effective. those. \_ trainer/instructor and online content designer should always strive to objectively assess the extent to which expensive technologies they want to apply (and impose v pupils) more effective ways v which the education from v well organized and illustrated books from similar education contents .



Figure 5. A life Long Education

## **REFERENCES**

1. Bogdanovich M. Educational Software, Education and National Education. Materials: Possibilities of domestic education in globalization, 2010. pp. 265-282,
2. Bogdanovic M. Multimedia and Education - Features and Applications. International Conference on Information Technology and Education Development. 2011. pp. 308-311.
3. Computing Curricula 2001, Chapter 3: Changes in the Computer Science Discipline, Available at: <http://www.acm.org/education/>
4. Craig B. New Directions for ICT Use in Education, Available at: <http://www.unesco.org/education/educprog/lwf/dl/edict.pdf>.
5. Fallon C, Brown S. E-Learning Standards: A Guide to Purchasing, Developing, and Deploying Standards-conformant e-Learning. CRC Press; 2003.
6. David BJ. Writing space: Computers, hypertext, and the remediation of print. 2nd ed. Mahwah, NJ: Lawrence Erlbaum; 2001.
7. Valery OK, Vladimir MK, Alexander PS. Distance Learning, Lifelong Learning in Europe 2, 2002. pp.114-119.