



### THE APPLICATION OF MULTIMEDIA CONTENT IN EDUCATION

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**Abstract:** The Internet and computers have become reality within teaching processes, but they are actually used even during extracurricular activities. Apart from using multimedia during classes, other elements such as voice, video, various animations and simulations are used as well. A teaching process and education without using computers and multimedia content is almost impossible to imagine. Therefore, this paper presents a survey of using multimedia in the teaching process describing different teaching methods and the possibilities of using technology and multimedia within the educational process.

Keywords: multimedia, teaching methods, knowledge

#### 1. INTRODUCTION

The role of computers within the education process has been changing dramatically over a few previous decades. The increased power, accessibility and graphical performances have affected growing success of computers.[1,2]

Multimedia denotes composing text, sound and video. Multimedia is a medium that uses various forms of information content and processes in order to inform or entertain a user: *multi* meaning multiple (lat. *multum*) and *media* meaning a medium-intermediary (lat. *medium*: 'a channel or a system of communication, information or entertainment').

Fuda defines multimedia in a similar way, pointing out that multimedia represents the consolidation of all elements of technology as it combines sound, image, video, drawing and text with high quality in an interactive environment [3]. However, Sacher explains multimedia as communication forms that include learning software, hypertext, videoconference, interactive satellite television, online libraries and data banks that are supported by different media [4].

The development of online technologies provides unlimited possibilities for multimedia. Text, sound, images, interactive elements and animations are used on the Internet. Such contents provide rich possibilities for delivering presentations, using advanced technological solutions.

In contemporary circumstances, only a small number of students are interested in teaching processes of any subject content due to the fact they are surrounded by much more interesting issues, such as television, sports, music, computers, the Internet, mobile telephony, etc. In this paper, we are trying to suggest new teaching tools that would raise the interest of the students.

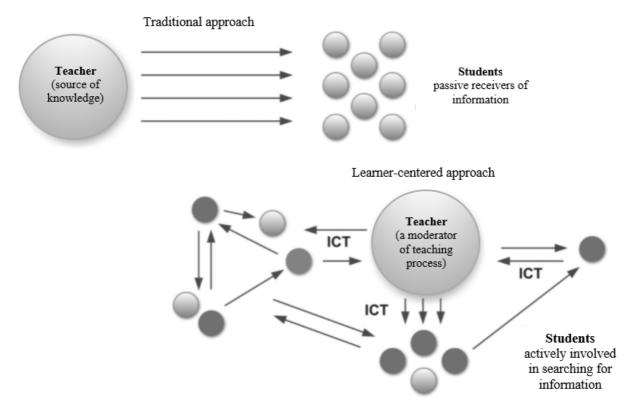
#### 2. FROM THE TRADITIONAL TO THE CONTEMPORARY TEACHING APPROACHES

The traditional teaching approaches were applied in schools for a long period of time.

Together with the development of the new teaching and learning media, other strategies have been developed and applied as well. This has led to the constant improvement of teaching and learning approaches.







Picture 1: Traditional and contemporary teaching approaches

Contemporary teaching strategies regard a student as a central point within the teaching process. Various forms of interactive learning are included in teaching:

- learning environment is adjusted to suit the learners,
- teaching process is learner-centered,
- students are encouraged not only to receive information but to do research as much as possible, think critically about the content of the subjects, work either individually or participate in teamwork,
- teachers and students are simultaneously encouraged to continually collaborate during teaching and learning processes.

Following the technological changes around us, a teacher, in addition to the traditional role which comprises expert and competent interpretation of the curriculum, should also take part in modern teaching by:

- 1. creating and organizing the teaching process (planning and preparation of the teaching/learning process and their coordination),
- 2. guiding and directing the learning process (discusses, supports and motivates students, directs their activities, etc.),
- 3. evaluating learning efficiency and adjusting learning towards specific needs and competences of the students (evaluation and self-evaluation).

Nowadays, the following contemporary teaching processes can be recognized as:

- Computer-based Learning,
- Internet-based Learning,
- Online Learning,
- Social E-learning and
- Mobile Learning.

### 3. THE USE OF MULTIMEDIA CONTENT IN THE TEACHING PROCESS

Today's generations of students are different from the previous ones. These students are so-called "digital natives". These are the generations that have grown up with technology and are certainly different from those that have later got used to technology.





Knowledge acquisition is more efficient by using multimedia content. Richard E. Mayer offers 8 principles that characterise multimedia use within the learning process:

- 1. Multimedia principle: students learn better if teaching content is explained using pictures and words;
- 2. Spatial proximity principle: students learn better if the pictures and words are closer to each other during the study process;
- 3. Time proximity principle: students learn better if they are exposed to pictures and words presentations simultaneously rather than alternately;
- 4. Adjustment principle: students learn better when unknown concepts are not pointed out as such but introduced to the students by associating with already familiar issues;
- 5. Modality principle: students learn better from content presented by using animation and narration than from animations and text written on the screen;
- 6. Redundancy principle: students learn better from animation and narration than from animation, narration and text on the screen;
- 7. The principle of individual differences: the design effects in teaching content are more stimulating for the students with lower intellectual abilities;
- 8. The principle of direct manipulation: as the complexity of the material increases, the impact of direct handling of materials (animation, pace) also increases. [5]

The use of audiovisual aids in learning creates clearer and richer representations and improves the knowledge acquisition and understanding of the content [6]. This is exactly what makes this way of knowledge acquisition as multimedia learning.

Digital information can be memorised more easily if it is supported by image, animation or sound, stimulating multiple senses at the same time, thus providing input as complex information [7]. Cheng et al., point out that the content obtains the possibilities to improve the learning performances promoting the user's pleasure and engagement [8]. Multimedia content provides better presentation of concepts, which is not possible with the use of conventional forms.

The main purpose of multimedia content is to motivate students to work, primarily by its design, to create an internal need for knowledge acquisition and enable real thinking process, which involves problem-solving and conscious knowledge application in different and unexpected situations [9]. The curriculum presented with the support of multimedia electronic form is far more accessible to each student.

A great variety of didactic material, which includes e-books, hypertexts, image galleries, databases, animations, video clips, presentations, etc. enables the student to observe, listen, think and perform certain actions simultaneously [10]. The advantages of multimedia include:

- attracting students' attention,
- greater interest, motivation and pleasure,
- easier explanation of complex issues and principles,
- deeper understanding of the content,
- better retention of the content and the possibilities of knowledge application in new and unexpected situations.

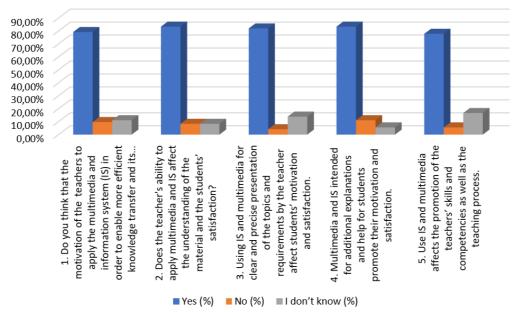
# 3.1 The use of multimedia and IS at Faculty of Technical Sciences (FTS) Čačak, the University of Kragujevac

The research was realised within IT (Information Technology) subjects with first-year and second-year students of FTS in Čačak. It was conducted during the summer term of the 2021/2022 school year (May-June 2022) and 72 students participated as the respondents.

The questionnaire is used to collect the data necessary for the research. It was organized to identify the level of knowledge about the application of IS (Information System) [11] when teaching students of the Information Technology study programme at the academic and vocational studies at FTS in Čačak, the University of Kragujevac. The results are presented in Picture 2:







Picture 2: Graphic presentation of research results - application of multimedia and IS in the teaching process

The research shows that the use multimedia and IS promotes the following:

- more efficient knowledge transfer and acquisition;
- students' satisfaction and motivation in the teaching process;
- improvement of the teachers' competences and motivation as well as the teaching process improvement.

# 4. TOOLS FOR CREATING AND APPLICATION OF MULTIMEDIA CONTENT FOR LEARNING

There is a great variety of tools that are used for creating multimedia content. The innovative tools have been constantly appearing.

Some of the most popular digital education tools for teachers and learners [12]:

- Edmodo is an educational tool that connects teachers and students, and is assimilated into a social network. Teachers can create online collaborative groups, administer and provide educational materials, measure student performance and other functions,
- Socrative is a system that allows teachers to create exercises or educational games which students can solve using mobile devices, whether smartphones, laptops, or tablets,
- Project is a tool that allows you to create multimedia presentations, with dynamic slides. Teachers can share with students presentations which are visually adapted to different devices,
- Thinglink tools for creating interactive images with music, sounds, texts, photographs and other multimedia resources
- TED-Ed is an educational platform that allows creating educational lessons with the collaboration of teachers, students, animators generally people who want to expand knowledge and good ideas. People can have an active participation in the learning process of others.

Picture 3 shows the tools that were used more frequently in 2022. The top ten tools are presented together with a description of their application [13].





+/-	TOP 30	0 TOOL	BRIEF DESCRIPTION	PPL	WPL	EDU
0	1	YouTube	video hosting and sharing platform	✓	<b>✓</b>	✓
+3	2	PowerPoint	presentation software	<b>✓</b>	✓	✓
0	3	Google Search	search engine	✓	✓	✓
0	4	Microsoft Teams	enterprise collaboration platform	<b>✓</b>	✓	
-3	5	Zoom	video meeting platform	✓	✓	✓
0	6	Google Docs & Drive	office suite/file sharing platform	✓	✓	✓
0	7	LinkedIn	professional social network	<b>✓</b>	✓	
+4	8	Word	document tool	<b>✓</b>	✓	✓
+4	9	Canva	graphics tool	<b>✓</b>		✓
-1	10	Wikipedia	online encyclopaedia	<b>✓</b>	✓	<b>✓</b>

Picture 3: Top 10 tools most frequently used in 2022



Picture 4: Top 100 tools for learning

Picture 4, on the other hand, shows the top 100 tools in 2022 together with a description that explains where they can be applied [14].

### 5. CONCLUSION

Multimedia applications within the teaching process can be efficient tools due to their interactivity, flexibility and possibility for integration with various media that are used for promoting learning and motivation.

The possibility of interaction is one of the main advantages of using multimedia content, as it enables teamwork and providing feedback, which is very important for motivation and efficient knowledge acquisition. Teaching approaches should be designed so as to incorporate multimedia applications with the appropriate coursebooks. Integrating multimedia content into teaching material can improve the teaching process and enable knowledge acquisition. Study units that are represented through the ICT application can promote and activate the students to think creatively and effectively. That way, they can understand the subject content more easily.





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## PAPER ACCEPTANCE CONFIRMATION

Western Serbia Academy of Applied Studies, as the organiser of 13<sup>th</sup> International Scientific Conference 'Science and Higher Education in Function of Sustainable Development – SED 2023', which will be held in Vrnjačka Banja, Serbia, from 5<sup>th</sup> to 8<sup>th</sup> June 2023, hereby confirms that the

paper titled

### THE APPLICATION OF MULTIMEDIA CONTENT IN EDUCATION

submitted by

Marija Nikolić, Vesna Ružičić, Nataša Gojgić

IS ACCEPTED for publication in the Conference Proceedings.

Thank you for your contribution to the success of the upcoming conference!

Užice, 23.05.2023.



Chair of SED 2023 Organizing Committee Ljubica Diković, PhD, President of Western Serbia Academy of Applied Studies









Vrnjačka Banja, Serbia 5<sup>th</sup> - 8<sup>th</sup> JUNE 2023



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Having successfully organised previous conferences, and having recognised the importance of the synergy between higher education, science and industry, we are cordially inviting you to take part in the 13th International Scientific Conference 'Science and Higher Education in Function of Sustainable Development – SED 2023', which will be organised by Western Serbia Academy of Applied Studies – Užice Department, at the 'Slatina' Hotel in Vrnjačka Banja, Serbia, from 5th to 8th June 2023.

We believe that the 13th International Scientific Conference 'Science and Higher Education in Function of Sustainable Development – SED 2023' will manage to gather relevant scientists and experts, as well as representatives of business organisations in different industrial sectors, and provide them with an opportunity to exchange experiences and knowledge about the latest achievements, trends, and innovations in the abovementioned research areas.

Western Serbia Academy of Applied Studies – Užice Department wishes you a warm welcome to the 13<sup>th</sup> international conference SED 2023!

Ljubica Diković, PhD,

President of Western Serbia Academy of Applied Studies
Chairman of SED 2023 Conference

#### **GENERAL INFORMATION**

Language: The official languages of the Conference will be English.

Conference venue: The Conference will be held at the the 'Slatina' Hotel in Vrnjačka Banja, Serbia, from 5th to 8th June 2023.

Conference website: https://sed.akademijazs.edu.rs/

## Science and Higher Education in Function of Sustainable Development – SED 2023

The conference will gather the representatives of science, our country, society, economy, media, and others involved in the development of science and higher education through various activities, especially through the promotion of higher education in Zlatibor district.

#### **General Topics**

The 13th International Scientific Conference 'Science and Higher Education in Function of Sustainable Development – SED 2023' will be devoted to the latest scientific and professional achievements, trends, and inventions in the following research areas:

- (1) Information Technology,
- (2) Civil Engineering and Architecture,
- (3) Mechanical Engineering and Occupational Safety and Health,
- (4) Business Economics, Management and Tourism, and
- (5) Medicine and Health Care.

The aim of the conference is to highlight the role of science and higher education in achieving the sustainable development, to promote and popularize science, to improve the international scientific exchange and cooperation, as well as to strengthen the bonds between our educational institution and other institutions in our society.

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13<sup>th</sup> International Scientific Conference 'SCIENCE AND HIGHER EDUCATION IN FUNCTION OF SUSTAINABLE DEVELOPMENT—SED 2023'

## FIRST DAY - Monday, 5th June 2023

(15:00 - 16:00) Entrance hall - Registration of participants

(16:00 – 18:00) Conference Hall, Slatina Hotel - Opening ceremony, welcome speeches

PLENARY SESSION

			CHAIR	Ljubica Diković, PhD
VICE-CHAIRS			Ljiljana Trumbulović, PhD Slobodanka Stankov, PhD	
Nº	Title of paper	Author(s)		Institution
1.	EXPLORING THE APPLICATION OF GENETIC ALGORITHMS AND ARTIFICIAL NEURAL NETWORKS WITHIN COMPANIES IN WESTERN SERBIA	Milovan Milivojevic, Ph.D.	Weste Studie	ern Serbia Academy of Applied es
2.	OPEN-X AND NEO- INDUSTRIALIZATION 2.0: AN INTRODUCTION	Goran D. Putnik <sup>1</sup> , PhD; Hélio Castro <sup>2</sup> , PhD; Pedro Pinheiro <sup>1</sup> , MSc; Cátia Alves <sup>1,3,4</sup> , PhD.	Eng Cer Gui <sup>2</sup> IS TEC <sup>3</sup> 2. <sup>4</sup> Lab Bar <sup>4</sup> L. <sup>4</sup> Inte	epartment of Production and Systems tineering, ALGORITMI Research stre/LASI, University of Minho, marães, PORTUGAL, EP, Polytechnic of Porto and INESC C., Porto, PORTUGAL Ai - Applied Artificial Intelligence a, School of Technology, IPCA, celos, PORTUGAL ASI - Associate Laboratory of diligent Systems, Guimarães, RTUGAL
3.	A NETWORK ANALYSIS OF THE COMMUNITY OF INQUIRY FRAMEWORK IMPACT ON STUDENTS' GRIT – A COMPLEMENTARY SEQUENTIAL MEDIATION ANALYSIS APPROACH	Dana Rad, Ph.D.	Psych	ty of Educational Sciences, tology and Social Sciences at Aurel u University of Arad, Romania.

#### (18:00) - Conference cocktail

## SECOND DAY - TUESDAY, 6th JUNE 2023

## (10:00-12:00) CONFERENCE HALL

		Chairs	MILOVAN MILIVOJEVIĆ, Ph.D. MIROSLAVA JORDOVIĆ PAVLOVIĆ. Ph.D.
SESSION: INFORMATION TECHNOLOGY			
Nº	Title of paper	Author(s)	Institution
1.	MOBILE APPLICATION FOR EXAM REGISTRATION FOR MASTER'S STUDIES	Milorad Murić, spec.; Dragana Knežević, MSc; Aleksandar Milovanović, PhD;	Western Serbia Academy of Applied Studies  – Užice Department, Užice, SERBIA
2.	EFFECT OF SOCIAL MEDIA ON EDU WEBSITE TRAFFIC	Dragana Knežević, MSc; Srđan Obradović, MSc; Milorad Murić, spec;	Western Serbia Academy of Applied Studies  – Užice Department, Užice, SERBIA
3.	THE INTERNET OF THINGS IN HEALTHCARE: ADVANTAGES, APPLICATIONS, AND FUTURE	Dragana Knežević, MSc; Ljubica Diković, PhD;	Western Serbia Academy of Applied Studies  – Užice Department, Užice, SERBIA
4.	THE ROLE OF THE ENGLISH LANGUAGE IN THE DIGITAL COMPETENCIES OF STUDENTS OF THE ACADEMY	Jelena Rajović, PhD(1); Nenad Marković, PhD(1); Sanja Marković, PhD(2); Aleksandar Milovanović, PhD(3);	(1)Academy of Applied Studies of Kosovo and Metohija, Department Uroševac – Leposavić, SERBIA (2)Academy of Applied Studies of Kosovo and Metohija, Department Zvečan, SERBIA (3)Western Serbia Academy of Applied Studie, Department Užice, SERBIA
5.	IMPLEMENTATION OF THE MICRO LEARNING CONCEPT IN THE TEACHING OF HIGHER MATHEMATICS USING THE EDAPP SOFTWARE	Branko Gavrilović, MSc; Ljubica Diković, PhD;	Western Serbia Academy of Applied Studies  – Užice Department, Užice, SERBIA
6.	SERBIAN TREASURY'S ELECTRONIC SERVICE FOR PAYMENT OPERATIONS (eSPP): TECHNICAL AND SECURITY ASPECTS AND PROPOSED IMPROVEMENT MEASURES	Predrag Radovanović, PhD; Marija Miljković, MSc; Marija Krstić, MSc; Lazar Krstić, MSc;	Academy of Vocational Studies Southern Serbia, Leskovac, SERBIA

7.	PREDICTING THE NUMBER OF NEWBORNS IN THE REGION OF WESTERN SERBIA AND SUMADIJA USING THE REGRESSION METHOD	Andrijana Gaborović, MSc; Katarina Karić, MSc; Jelena Plašić, MSc; Nikola Stanić MSc;	University of Kragujevac, Faculty of Technical Sciences, Čačak, SERBIA
8.	DEXI – MULTI- PARAMETER DECISION- MAKING	Sašo Bizant, MSc;	ŠC Kranj, Kranj, SLOVENIA
9.	THE EFFECTS OF DISTANCE LEARNING IN WESTERN SERBIA ACADEMY OF APPLIED STUDIES VALJEVO DEPARTMENT	Ilja Stanišević, PhD; Miloš Živković, Mr; Ćebić Branko, MSc; Beljić Dejan, MSc;	Western Serbia Academy of Applied Studies – Valjevo Department, Užice, SERBIA
10.	OPTIMIZATION OF THE FORMULA-1 RACE CALENDAR USING GENETIC ALGORITHM	Gabriela Poljak, MSc(1); Miklos Pot, Mr(1); Milovan Milivojević, PhD(2);	(1)Subotica Tech - College of Applied Sciences, Subotica, SERBIA (2)Western Serbia Academy of Applied Studies, Užice, SERBIA
11.	PROBABILISTIC ANALYSIS OF ONE MODEL OF THE HIRING PROBLEM USING EXTREME VALUE THEORY	Tatjana Bajić, MSc;	Academy of Applied Studies Šabac, Šabac, SERBIA
12.	DIGITALIZATION OF CULTURAL HERITAGE – PROJECT DIGITAL MULTIMEDIA GUIDE OF UŽICE OLD TOWN	Miroslava Jordović Pavlović, Phd; Slobodanka Stankov, PhD; Milomir Maksimović, MSc;	(1)Western Serbia Academy of Applied Studies, Department Užice, SERBIA (2)Faculty of Philosophy, University of Belgrade, Belgrade, SERBIA
13.	MATHEMATICAL MODELING AND SIMULATION OF A HYBRID COMPOUND MECHANICAL SYSTEM	Milica Tufegdžić, PhD; Zvonko Petrović, MSc; Violeta Đorđević, MSc;	Academy of professional studies Šumadija, Trstenik, SERBIA
14.	AUTOMATIC PROCESSING OF ELECTRONIC INVOICES IN ACCOUNTING SYSTEMS	Živković Miloš, Mr; Stanišević Ilja, PhD; Branko Ćebić, MSc;	Western Serbia Academy of Applied Studies – Valjevo Department, Užice, SERBIA
15.	USING DBMS AND SHINY WEB FRAMEWORK TO DEVELOP SOFTWARE FOR STUDENT SURVEY DATA COLLECTION AND ANALYSIS	Dragana Knežević, MSc; Srđan Obradović, MSc; Milovan Milivojević, PhD;	Western Serbia Academy of Applied Studies – Valjevo Department, Užice, SERBIA

16.	AN EARLY PREDICTION MODEL OF LEARNING OUTCOMES AND IT COMPETENCES BASED ON ARTIFICIAL NEURAL NETWORKS	Milovan Milivojevic, PhD(1); Tamara Komlenovic, BSc(1); Srdjan Obradovic, MSc(1); Miklos Pot, Mr(2);	(1)Western Serbia Academy of Applied Studies – Valjevo Department, Užice, SERBIA (2)Subotica Tech - College of Applied Sciences, Subotica, SERBIA
17.	VIRTUAL GALLERY AND ITS SIGNIFICANCE IN CULTURE AND EDUCATION	Milena Savić, MA; Dragana Frfulanović, Mr;	Academy of Vocational Studies South Serbia, Department of Technological Art Studies, Leskovac, SERBIA
18.	DIGITAL COMPETENCIES OF TEACHERS IN THE FUNCTION OD ict APPLICATION IN THE TEACHING PROCESS	Jelena Stojanović, PhD(1); Nebojša Denić, PhD(2); Kostadinka Stojanović, BSc(1);	(1)Faculty od Mathematics and Computer Sciences, Alfa BK University, Belgrade, SERBIA (2)Faculty of Sciences and Mathematics, University of Pristina in Kosovska Mitrovica, City, SERBIA
19.	AN OVERVIEW OF THE DEVELOPMENT OF ARTIFICIAL INTELLIGENCE TECHNOLOGY IN e- LEARNING DURING COVID-	Dragan Zlatkovic, PhD(1); Nebojsa Denic, PhD(2); Kostadinka Stojanović, BSc(3);	(1)Faculty of Information Technologies and Engeenering, University "UNION – Nikola Tesla" Belgrade, SERBIA (2)Faculty of Sciences and Mathematics, University of Pristina, Kosovska Mitrovica, SERBIA (3)Faculty of Mathematics and Computer Science, ALFA BK University, Belgrade, SERBIA
20.	ELECTRONIC BUSINESS AND E-COMMERCE. OVERVIEW OF THE STATE OF ELECTRONIC COMMERCE IN SERBIA	Branko Gavrilović, MSc;	Secondary School of Economic, Užice, SERBIA
21.	MACHINE LEARNING MODELS IN THE CLASSIFICATION AND EVALUATION OF TRAFFIC INSPECTION JOBS IN ROAD TRAFFIC AND TRANSPORT	Milorad K. Banjanin, PhD(1,2); Aleksandar Đukić, MSc(3); Mirko Stojčić, PhD(3); Milan Vasiljević, MSc(2);	(1)University of Novi Sad, Faculty of Technical Sciences Novi Sad, SERBIA (2)University of East Sarajevo, Faculty of Philosophy Pale, BOSNIA AND HERZEGOVINA (3)University of East Sarajevo, Faculty of transport and traffic engineering Doboj, BOSNIA AND HERZEGOVINA
22.	RECOLORING ISHIHARA TEST IMAGE FOR DEUTAN CVD PERSONS	Zoran Milivojević, PhD(1); Bojan Prlinčević, PhD(2); Milan Cekić, BCs(3);	(1)Academy of Applied Technical and Preschool Studies, Niš, SERBIA (2)Kosovo and Metohija Academy of Appl. Studies, Leposavić, SERBIA (3)Mikkelsen Electronics, Niš, SERBIA
23.	THE APPLICATION OF MULTIMEDIA CONTENT IN EDUCATION	Marija Nikolić, Mr; Vesna Ružičić, PhD; Nataša Gojgić, PhD;	University of Kragujevac, Faculty of Technical Sciences Čačak, SERBIA

24.	APPLICATION OF INFORMATION SYSTEMS AND DATA PROCESSING TOOLS IN COMPANIES	Momir Milić(1); Nebojša Denić, PhD(2); Kostadinka Stojanović(1); Jelena Stojanović(1);	(1)ALFA BK University, Belgrade, SERBIA (2)Faculty of natural sciences, Kosovska Mitrovica, SERBIA
25.	DEVELOPMENT OF A WEB APPLICATION FOR OPEN DATA ANALYSIS USING THE STREAMLIT LIBRARY	Branko Gavrilović, MSc;	Secondary School of Economic, Užice, SERBIA
26.	ELECTRONIC HEALTHCARE. THE POSSIBILITY OF APPLYING BLOCKCHAIN TECHNOLOGY FOR THE CREATION OF EMR	Branko Gavrilović, MSc;	Secondary School of Economic, Užice, SERBIA
27.	COLLABORATIVE LEARNING OF MATHEMATICS SUPPORTED BY BLOCKCHAIN TECHNOLOGY IN THE CONTEXT OF MANDELBROT AND JULIA SETS	Soley Ersoy, PhD(1); Ana Savić, PhD(2); Goran Bjelobaba, MSc(3); Hana Stefanović, PhD(4);	(1)Sakarya University, Faculty of Arts and Sciences, Department of Mathematics, Sakarya, TURKEY (2)Academy of Technical and Art Applied Studies, School of Electrical and Computer Engineering, Belgrade, SERBIA (3)University of Belgrade, Faculty of organizational sciences, Belgrade, SERBIA (4)Comtrade Information Technology School of Applied Studies, Belgrade, SERBIA
28.	DETERMINING THE OPTIMAL PATH IN THE STRATEGIC MAP OF PUBLIC COMPANIES	Predrag Pravdic, PhD(1); Marija Mojsilovic, MSc(2); Snezana Gavrilovic, PhD(2); Kostadinka Stojanovic, MSc(3);	(1)Academy of Educational and Medical Vocational Studies, College in Krusevac, SERBIA (2)Academy of Professional Studies Sumadija, College in Trstenik, SERBIA (3)Alfa BK University Belgrade, Faculty of mathematics and computer sciences, SERBIA
29.	ELECTRONIC BANKING, CHALLENGES AND DEVELOPMENT TRENDS	Miodrag Milićević, PhD; Blagodar Lovčević, PhD; Danijel Čabarkapa, MSc;	Academy of Professional Studies Sabac, Sabac, SERBIA
30.	DIMENSIONS MODELLING OF PM PARTS USING NEURAL NETWORKS	Dragoljub Drndarević, PhD; Milovan Milivojević, PhD;	Western Serbia Academy of Applied Studies, Department Užice, SERBIA
31.	PRINCIPAL COMPONENT ANALYSIS IN PROCESSING PHOTOACOUSTIC MEASUREMENT DATA	Miroslava Jordović Pavlović, PhD(1); Kristina Milojević, BSc(1); Dragana Markušev, PhD(2); Dragan Markušev, PhD(2);	(1)Western Serbia Academy of Applied Studies, departmant Uzice, SERBIA (2)Institute of Physics, Laboratory for Photoacoustic, Belgrade, SERBIA

32.	IMAGE PROCESSING AND INSURANCE DIGITALIZATION	Ana Savić, PhD(1); Marija Paunović, PhD(2,3);	(1)Academy of Technical and Art Applied Studies, School of Electrical and Computer Engineering, Belgrade, SERBIA (2)Faculty of Hotel Management and Tourism, University of Kragujevac, Vrnjacka Banja, SERBIA (3)Faculty of Business and Law, University "MB", Belgrade, SERBIA
33.	THE FUNDAMENTALS OF TEACHING C++ PROGRAMMING LANGUAGE: POINTERS VS. REFERENCES	Aleksandar Kupusinac, PhD;	University of Novi Sad, Faculty of Technical Sciences, Novi Sad, SERBIA
34.	APPLICATION OF BLOCKCHAIN IN E- COMMERCE PLATFORMS	Miroslav Avdalović	Faculty of Organizational Studies, Belgrade, SERBIA
35.	THE INFLUENCE OF DIGITAL MEDIA ON THE ACQUISITION OF GERMAN VOCABULARY AS A FOREIGN LANGUAGE	Sladjana Stanojevic Milinkovic, MA	Western Serbia Academy of Applied Studies, Department Užice, SERBIA

## (12:00-13:00) CONFERENCE HALL

			Chairs	ĐORĐE ĐURIČIĆ, Ph.D. DEJAN MILIVOJEVIĆ. Ph.D.
S	SESSION: Civil Engineering and Architecture			
Nº	Title of paper	Author(s)		Institution
1.	THE HISTORY AND ARCHITECTURE OF THE PALACE HOTEL IN UZICE	Gordana Lazić, PhD;		A Academy of Applied Studies tment, Užice, SERBIA
2.	CONTEMPORARY TIMBER BUILDING AND ITS FUTURE: SOME FACTS AND EXAMPLES	Dejan Milivojević, PhD;		a Academy of Applied Studies tment, Užice, SERBIA
3.	REDUCED AIR POLLUTION AS A RESULT OF SIGLE- FAMILY HOMES UTILIZING ENERGY- EFFICIENT TECHNIQUES	Jana Vasiljević, MSc; Aleksandar Pujović, MSc;		a Academy of Applied Studies tment, Užice, SERBIA
4.	ORGANIZATIONAL STRUCTURES AND METHODOLOGIES OF LAND VALUATION IN LAND CONSOLIDATION AND THEIR IMPLEMENTATION IN THE REPUBLIC OF SRPSKA	Dragana Skorup, MSc(1); Goran Marinković, PhD(2); Marko Božić, BSc(3); Đorđe Đuričić, PhD(4);	Engineering, a Luka, BOSNIA (2)Faculty of T Sad, SERBIA (3)Meixner d.c.	
5.	ELEMENTS OF THE FUTURE HOUSING IN SERBIA: ASPECTS OF SUSTAINABILITY – the OVCA settlement	Borislav Petrović;	University of I	Belgrade, Faculty of Departement of Architecture,
6.	PROFESSIONAL PRACTICE WITHIN THE GEODESY-GEOMATICS STUDY PROGRAM OF THE ATAAS BELGRADE	Stevan Radojčić, PhD;		echical and Art Applied ol of civil Engeneering and rade, SERBIA
7.	SUSTAINABLE MANAGEMENT OF CITIES USING URBAN WETLANDS	Danijela Zlatković, PhD(1); Jelena Zlatković, MSc(2); Djordje Vasković, MSc(2);		oartment Niš, Niš, SERBIA urban planning Niš,

## (13:00-15:00) CONFERENCE HALL

			CHAIRS	ZORICA TANASKOVIĆ, Ph.D. SLOBODANKA STANKOV, Ph.D. ZORICA SAGIĆ, Ph.D.		
_	SESSION:					
Bu	isiness Economics, Man	agement and Tou	rism			
Nº	Title of paper	Author(s)		Institution		
1.	ETHER CRYPTOCURRENCY CASE STUDY	Marijana Milanovic, MSc; Milorad Muric, spec.; Srdjan Obradovic, MSc;	Studies	n Serbia Academy of Applied - Užice Department, SERBIA		
2.	THE INFLUENCE OF VOICE CHANGES ON WRITING OF IOTIFIED VOWELS IN THE RUSSIAN LANGUAGE	Nikola Jankovic, MSc;	Studies Užice,	n Serbia Academy of Applied – Užice Department, SERBIA		
3.	A BRIEF VIEW OF SOME DISTINCTIVE SPELLING OF HIEROMONK ROMAN MATYUSHIN	Nikola Jankovic, MSc;	Studies Užice,	n Serbia Academy of Applied  – Užice Department, SERBIA		
4.	ACQUISITION OF VOCABULARY ON THE SUBJECT OF CLOTHING AND FOOTWEAR	Nikola Jankovic, MSc;	Studies	n Serbia Academy of Applied – Užice Department, SERBIA		
5.	THE INFLUENCE OF DIGITAL MARKETING ON BRAND CREATION	Milorad Murić;, spec. Zorica Sagić, PhD;	Studies Užice,	n Serbia Academy of Applied – Užice Department, SERBIA		
6.	ANIMATION AS A SEGMENT OF THE MODERN TOURISM OFFER OF TRAVEL AGENCIES (TOUR OPERATORS)	Slobodanka Stankov, PhD;	Studies	n Serbia Academy of Applied – Užice Department, SERBIA		
7.	ANALYSIS OF THE IMPLEMENTATION OF THE IPARD II PROGRAM IN THE FIELD OF RURAL DEVELOPMENT 2014-2020	Bratislav Pešić, Nikola Stolić, Nebojša Zlatković, Tihomir Jovanović		Academy of Vocational Studies, lje, SERBIA		
8.	THE ROLE AND SIGNIFICANCE OF TRAINING FIELDS FOR HUNTING DOGS ON THE DEVELOPMENT OF HUNTING TOURISM IN SOUTHEASTERN SERBIA	Bratislav Pešić, Nikola Stolić, Nebojša Zlatković, Dejan Stefanović		Academy of Vocational Studies, lje, SERBIA		
9.	NATURE AND COMPATIBILITY OF PUBLIC RELATIONS AND CORPORATE COMMUNICATION	Borislav Kolarić, PhD; Ivana Vladimirović, MSc; Saša Spasojević, PhD		ny of Applied Studies Šabac, SERBIA		

10.	IMPORTANCE OF FOOD MANAGEMENT SYSTEM – ILLUSTRATION FROM HOTEL MOSKVA	Miloš Zrnić, MSc(1), Tamara Gajić, PhD(2), Dragan Vukolić, MSc(3)	(1)Academy of Applied Studies – College of Hotel Management, Belgrade, SERBIA (2)Geographical Institute "Jovan Cvijić", Belgrade, SERBIA; South Ural State University, Institute of Sports, Tourism and Service, Chelyabinsk, RUSSIA; Faculty of Hotel and Tourism Management, University of Kragujevac, Vrnjačka Banja, SERBIA (3)University of Business Studies, Faculty of Tourism and Hotel Management, Banja Luka, BOSNIA AND HERZEGOVINA
11.	SMEs MANAGEMENT DURING COVID-19 PANDEMIC	Sandra Stojadinović Jovanović, PhD(1); Violeta Domanović, PhD(2); Bojan Krstić, PhD(3);	(1)Western Serbia Academy of Applied Studies, Užice, SERBIA (2)University of Kragujevac, Faculty of Economics, Kragujevac, SERBIA (3)University of Niš, Faculty of Economics, Niš, SERBIA
12.	INDEX-BASED INSURANCE	Sanja Radovanović, PhD(1); Željko Radovanović, PhD;	(1)Western Serbia Academy of Applied Studies, Valjevo Department, SERBIA (2)National Security Academy, Belgrade, SERBIA
13.	AGENCY COSTS AND CAPITAL STRUCTURE	Marina Janković Perić, PhD(1); Šaban Gračanin, PhD(2)	(1)Western Serbia Academy of Applied Studies, SERBIA (2)Alere doo and Western Serbia Academy of Applied Studies, SERBIA
14.	COST ACCOUNTING AND PERFORMANCE MEASUREMENT WITH THE PURPOSE OF INCREASING THE COMPETITIVENESS OF HEALTHCARE ORGANIZATIONS	Kristina Spasić, MSc; Dragana Nikolić, PhD;	(1)Faculty of Economics, Nis, SERBIA (2)Academy of Vocational Studies Southern Serbia, Leskovac, SERBIA
15.	E-BOOKS AS STUDENT MOTIVATION AND ENGAGEMENT BOOSTER	Ivana Marinković, MA(1), Dragana Pešić, PhD(2);	(1)Western Serbia Academy of Applied Studies, Užice, SERBIA (2)Faculty of Hotel Management and Tourism in Vrnjačka Banja, University of Kragujevac, SERBIA
16.	AN INSIGHT INTO SERBIA INNOVATION RANK AS A BASIS FOR FUTURE DEVELOPMENT OF THE SERBIAN INNOVATION ECOSYSTEM	Toma Dašić, MSc; Tatjana Đekić, PhD; Miljana Stojković- Trajković, PhD;	Academy of Professional Studies South Serbia, Leskovac, SERBIA

17.	FOOD SAFETY MARKETING	Tatjana Đekić, PhD;	Academy of Professional Studies South
1/.	STRATEGY IN THE CONTEXT OF SUSTAINABLE DEVELOPMENT	Toma Dašić, MSc; Miljana Stojković- Trajković, PhD; Suzana Nedeljković;	Serbia, Leskovac, SERBIA
18.	SAFETY ASPECT IN MODERN TOURISM	Radomir Stojanović, PhD;	Western Serbia Academy of Applied Studies – Užice Department, Užice, SERBIA
19.	TOURIST ETHNOCENTRISM DURING THE PANDEMIC OF THE VIRUS COVID-19	Dragana Gašević, PhD(1); Stefan Zdravković, PhD(2); Marija Vranješ, MSc(1); Dragana Tomašević, MSc(1);	(1)Novi Sad School of Business, Novi Sad, SERBIA (2)Faculty Of Economics, Kragujevac, SERBIA
20.	ACCOUNTING AND LEGAL ASPECTS OF THE APPLICATION OF ELECTRONIC INVOICING	Tanja Janaćković, PhD; spec. Milica Ilić; Saša Sarić, PhD;	1 Academy of Vocational Studies Southern Serbia, Department of Higher Business School Leskovac, Leskovac, SERBIA
21.	THE REGULATORY FRAMEWORK AS A KEY FOR THE IMPROVEMENT OF E- INVOICING SYSTEM IN THE REPUBLIC OF SERBIA	Dragana Nikolić, PhD(1); Kristina Spasić, MSc(2);	(1)Academy of Vocational Studies Southern Serbia, Leskovac, SERBIA (2)Faculty of Economics, Nis, SERBIA
22.	COMPARATIVE ANALYSIS OF CORPORATE PROFIT TAXATION IN WESTERN BALKAN COUNTRIES	Biljana Đuričić, Mr; Momčilo Vasiljević, PhD; Marijana Milanović, MSc; Aleksandar Stojanović, PhD;	Western Serbia Academy of Applied Studies – Užice Department, Užice, SERBIA
23.	DIVIDEND POLICY OF JOINT STOCK COMPANIES IN SERBIA	Biljana Đuričić, Mr; Momčilo Vasiljević, PhD; Marijana Milanović, MSc; Aleksandar Stojanović, PhD;	Western Serbia Academy of Applied Studies – Užice Department, Užice, SERBIA
24.	ELECTRONIC INVOICE – BENEFITS OR COSTS FOR PUBLIC AND PRIVATE SECTOR ENTITIES IN REPUBLIC OF SERBIA	Momčilo Vasiljeivć, PhD(1); Radovan Kastratović, PhD(2); Nenad Mihailović, PhD(3); Marijana Milanović, MSc(1);	(1)Western Serbia Academy of Applied Studies – Užice Department, Užice, SERBIA (2)Faculty of Economics, University of Belgrade, Belgrade, SERBIA (3)Western Serbia Academy of Applied Studies–Valjevo Department, Valjevo, SERBIA
25.	IMPORTANCE OF COMMUNICATION	Vesna Vasović, PhD(1); Zorica Tanasković, PhD(1); Katarina Roganović, PhD(2);	(1)Western Serbia Academy of Applied Studies – Užice Department, Užice, SERBIA (2)3 THIRD BELGRADE GYMNASIUM,Belgrade, SERBIA

26.	CITATION RULES	Marina Pušica, MS(1); Katarina Roganović,	(1)Western Serbia Academy of Applied Studies – Užice Department,
		PhD(2); Vesna Vasović, PhD(1);	Užice, SERBIA (2)3 THIRD BELGRADE
		1 11D(1),	GYMNASIUM, Belgrade, SERBIA
27.	TALENTJOURNEY _ A	Sašo Bizant, MSc;	ŠC Kranj, Kranj, SLOVENIA
	PROJECT OF EXCELLENCE		J. J.
28.	PERSPECTIVES OF	Anđelka Aničić, PhD;	Business College of Applied Studies
	INSURANCE MARKET	Milica Župljanić, PhD;	"Čačak", Belgrade, SERBIA
	DEVELOPMENT IN SERBIA	Ana Anufrijev, PhD;	
29.	THE INFLUENCE OF	Anđela Mikić, PhD;	Belgrade Business and Arts Academy for
	ECOLOGY ON	Sonja Milojević, PhD;	Applied Studies, Belgrade, SERBIA
	CONTEMPORARY BUSINESS		
	AND MARKETING		
30.		Marko Janackovic, PhD;	Academy of Professional Studies South
	ORGANIZATIONAL	Milena Marjanovic, PhD;	Serbia, Department for Business Studies
	STRUCTURE OF THE COMPANY IKEA IN NEW,	Ivan Mihailovic, PhD; Zaklina Andjelkovic, Mr;	Leskovac, Leskovac, SERBIA
	CHANGED CIRCUMSTANCES	Zakima Andjeiković, wir,	
31.	THE USE OF THE INTERNET	Đorđe Pavlović, PhD;	Western Serbia Academy of Applied
31.	IN THE ELECTRONIC	Branko Gledović, PhD;	Studies-Valjevo Department,
	BUSINESS OF COMMERCIAL	Branne Great (16, 11115)	Valjevo, SERBIA
	ENTERPRISES		<b>.</b>
32.	TOUR GUIDING AS A TYPE	Slobodanka Stankov,	Western Serbia Academy of Applied
	OF ANIMATION IN	PhD;	Studies – Užice Department,
	CONTEMPORARY TOURISM		Užice, SERBIA
33.	WITH TOTAL QUALITY	Nastja Beznik, BSc;	Kranj School Centre, Vocational College,
	MANAGEMENT AND		Kranj, SLOVENIA
	BUSINESS EXCELLENCE TO INTERNATIONALIZATION		
	THROUGH INTERNATIONAL		
	ACTIVITIES IN HIGHER		
	EDUCATION		
34.	PRODUCTION PROGRAMME	Nenad Milutinović, MSc;	Western Serbia Academy of Applied
	OPTIMIZATION USING		Studies – Užice Department,
	LINEAR PROGRAMMING		Užice, SERBIA
35.	EMOTIONAL INTELLIGENCE	Tamara Jevtić, MSc;	Academy of Professional Studies
	- A MULTIDIMENSIONAL	Mira Vidaković, PhD;	Šabac, SERBIA
	CONSTRUCT IN THE	Jelena Jevtić, PhD; Zoran	
	FUNCTION OF EMPLOYEE	Jokić, PhD;	
20	PERFORMANCE DEED TOUDISM	Dužon Comskini f	(1) University of Vaccoins Ele C
36.	BEER TOURISM POTENTIALS: BIBLIOMETRIC	Dušan Garabinović, MSc(1); Miloš Papić,	(1)University of Kragujevac, Faculty of Hotel Management and Tourism,
	AND TEXT MINING BASED	PhD(2); Marija Kostić,	Vrnjačka Banja, SERBIA
	CONTENT ANALYSIS	PhD(1); Katarina Karić,	(2)University of Kragujevac, Faculty of
		MSc(2);	Technical Sciences Čačak, SERBIA
37	THE "ELASTIC	Nemanja Gligorijević,	Academy of vocational studies Southern
- / .	INNOVATION" AS A NEW	PhD; Jelena Krstić	Serbia, Department of the Leskovac
1	MANAGEMENT PARADIGM	Ranđić, PhD; Žaklina	Business School, Leskovac, SERBIA
1	MANAGEMENT TAKADIGM	ranaic, i iib, Zakiiia	
	IN CONDITIONS OF	Anđelković, MSc;	Dusiness Benesi, Besite (ue, BERE)

38.	PERSONALITY CHARACTERISTICS AT THE LEVEL OF OPERATIONAL MANAGEMENT IN THE HOTEL INDUSTRY	Tamara Jevtić, MSc; Aleksandra Vasić, MSc; Jelena Jevtić, PhD; Dragana Ilić Udovičić, PhD	Academy of Professional Studies Šabac, Šabac, SERBIA
39.	SPECIFICITY OF RASPBERRY EXPORT PRICE MANAGEMENT - THE CASE OF THE REPUBLIC OF SERBIA	Borislav Kolarić, PhD; Ivana Vladimirović, Mr; Jelena Ignjatović, PhD; Suzana Grujić, Mr;	Academy of Applied Studies, Unit of Agricultural Business Studies and Turism, Šabac, SERBIA
40.	DEVELOPMENT OF RETAIL FORMATS IN MARKETING	Ana Dukić, PhD; Nevena Miletović, MSc; Djordje Mihailović, PhD; Ana Urošević, MSc;	1 Academy of Professional Studies Šumadija, Department in Aranđelovac, Aranđelovac, SERBIA
41.	JOINT EFFORTS TOWARDS SUSTAINABLE SUPPLY CHAINS AND RETAIL	Alenka Grmek, BSc	School Centre Kranj, Kranj, SLOVENIA
42.	CONTEMPORARY ISSUES ON THE RELATIONSHIP BETWEEN SUSTAINABILITY AND ACCOUNTING EVALUATION	Ágnes Siklósi, PhD; Ervin Denich, PhD; Attila Veress, PhD; Krisztina A. Sisa, PhD;	Budapest Business School, University of Applied Sciences, Budapest, HUNGARY
43.	HAS SUSTAINABILTY BEEN INCREASINGLY EMPHASIZED IN THE BANKING SECTOR RECENTLY IN HUNGARY?	Veronika Siklósi	Sopron, HUNGARY
44.	THE ROLE AND IMPORTANCE OF LOCAL TOURIST GUIDES IN TOURISM OFFER OF ZLATIBOR	Jelena Krstić Ranđić, PhD; Nemanja Gligorijević, PhD; Žaklina Anđelković, MSc;	1 Academy of vocational studies Southern Serbia, Department of the Leskovac Business School, Leskovac, SERBIA
45.	THE ROLE AND IMPORTANCE OF LOCAL TOURIST GUIDES IN TOURISM OFFER OF ZLATIBOR	Nevena Majstorović	Zlatibor tourism organization, Zlatibor, SERBIA
46.	SUSTAINABLE TOURISM IN THE FUNCTION OF A PROTECTED AREA - A CASE OF STUDY RAJAC	Marija Perić, PhD; Tatjana Marinković, PhD; Ben Mladenović, PhD; Tatjana Sekulić, PhD;	Academy of Technical Applied Sciences, Belgrade, SERBIA
47.	NECESSARY IN THE LABOR MARKET OF SERBIA AND THE EUROPEAN UNION	Ljiljana Pecić, PhD; Gabrijela Dimić, PhD; Ivana Milošević, PhD;	Academy of Technical and Art Applied Studies, Belgrade, SERBIA
48.	INTERNATIONAL SYNDICATED LOANS	Saša Sarić, PhD; Dragan Stojanović, PhD; Tanja Janaćković, PhD; spec. Milica Ilić;	Higher Business School of Vocational Studies, Leskovac, SERBIA

49.	APITOURISM - MODERN	Sara Stanić Jovanović,	(1)Academy of Professional Studies
	TREND AND AN	PhD(1); Anđelina	Šumadija, Department in Aranđelovac,
	OPPORTUNITY FOR THE	Jovanović, PhD	Aranđelovac, SERBIA
	DEVELOPMENT OF	Student(2); Nevena	(2)Clinical Hospital Center Zemun,
	MEDICAL TOURISM	Miletović 3, MSc(1);	Belgrade, SERBIA
50.	ANALYSIS OF THE QUALITY	Radomir Stojanović,	(1)Western Serbia Academy of Applied
	OF SERVICES IN SELECTED	PhD(1); Marko Pavlović,	Studies – Užice Department,
	SPAS OF SERBIA	PhD(2); Đorđe Pavlović,	Užice, SERBIA
		PhD(3);	(2)The Academy of Applied Technical
			Studies, Beograd, SERBIA
			(3)Western Serbia Academy of Applied
			Studies – Valjevo Department, SERBIA
51.	IMPROVING CREATIVITY	Ivana Bojović, PhD;	Western Serbia Academy of Applied
	THROUGH		Studies – Užice Department,
	ORGANISATIONAL		Užice, SERBIA
	CULTURE		

## (16:00-17:00) CONFERENCE HALL

		SNEŽANA AKSENTIJEVIĆ, Ph.D. LJILJANA TRUMBULOVIĆ, Ph.D. VESNA MARJANOVIĆ, Ph.D. IVANA ČEKOVIĆ. Ph.D.		
			IVANA CEROVIC, Ph.D.	
	SESSION: Mechanical Engineering	and Occupationa	ll Safety and Health	
Nº	Title of paper	Author(s)	Institution	
1.	PHYSICAL AND CHEMICAL HARMS ANALYSIS IN THE WORKING ENVIRONMENTAL IN THE TEXTILE INDUSTRY PLANTS	Nataša Ćirović, PhD; Vesna Marjanović, PhD; Adela Alemdarević, BSc;	Western Serbia Academy of Applied Studies – Užice Department, Užice, SERBIA	
2.	HEALTH RISKS OF WELDERS WHEN PERFORMING WORK IN THE PRESENCE OF CHEMICAL HARMFULNESS	Vesna Marjanović, PhD(1); Nataša Ćirović, PhD(1); Jasmina Obradović(2);	(1)Western Serbia Academy of Applied Studies – Užice Department, Užice, SERBIA (2)IMPOL SEVAL, Sevojno, SERBIA	
3.	FIRE HAZARD RISK ASSESSMENT OF THE PUBLIC FACILITIES	Nataša Ćirović, PhD(1); Snežana Aksentijević, PhD;(1); Vesna Rosić, BSc(1); Dragan Obućina, MA(2);	(1)Western Serbia Academy of Applied Studies – Užice Department, Užice, SERBIA (2)Remont centar, Užice, office@remontnicentar.com	
4.	RISK MANAGEMENT FROM NATURAL DISASTERS AND ASSESSMENT OF THE CONSEQUENCES OF DAMAGE TO THE ECONOMY	Marijola Božović, PhD(1); Sanja Marković, PhD(1); Zorica Sagić, PhD(2); Martina Petković, PhD(1);	(1)Academy of Applied Studies of Kosovo and Metohija, Department Zvečan, SERBIA (2)Western Serbia Academy of Applied Studies, Užice Department, Užice, SERBIA	
5.	FIRE PROTECTION MEASURES IN THE URBAN PLANNING	Nataša Ćirović, PhD; Snežana Aksentijević, PhD;	Western Serbia Academy of Applied Studies – Užice Department, Užice, SERBIA	
6.	MEDICAL WASTE MANAGEMENT	Željko Karganović, MD(1); Ljiljana Trumbulović, PhD(1); Mirjana Galjak, PhD(2);	(1)Western Serbia Academy of Applied Studies – Užice Department, Užice, SERBIA (2)Academy of Applied Studies of Kosovo and Metohija, Department Leposavić, SERBIA	
7.	PHYSICAL PRINCIPLES OF ACTION ELECTROMAGNETIC RADIATION IN THE WORKING AND LIVING ENVIRONMENT	Nataša Smiljanić, MA(1); Ljiljana Trumbulović, PhD(2); Ivana Čeković, PhD(2);	(1)Gymnasium Užice, SERBIA (2)Western Serbia Academy of Applied Studies – Užice Department, Užice, SERBIA	
8.	EVALUATION OF SUSTAINABLE PRODUCTION IN INDUSTRIAL CUTTING PROCESS	Štefan Žun, PhD;	ŠC Kranj, Kranj, SLOVENIA	

9.	QUALLITY MANAGEMENT OF PROCETIVE COATINGS BASED ON ZIRCONIUM SILICATE	Marko Pavlović, PhD(1); Zorica Tanasković, PhD(2); Marina Dojčinović, PhD(3); Zagorka Aćimović, PhD(4);	(1)Inovation Center of Faculty of Mechanical Engineering, Belgrade, SERBIA (2)Western Serbia Academy of Applied Studies – Užice Department, Užice, SERBIA (3)University of Belgrade, Faculty of Technology and Metallurgy, Belgrade, SERBIA (4)Engineering Academy of Serbia, Belgrade, SERBIA
11.	THE INFLUENCE OF CHANGING THE NUMBER OF BAFFLES ON THE FLOW AND THERMAL CHARACTERISTICS OF THE TUBULAR HEAT EXCHANGER USING SOLIDWORKS	Branko Drndarević, MSc(1); Aleksandar Milovanović, PhD(2); Ivana Čeković, PhD(2); Snežana Aksentijević, PhD(2); Andreja Stefanović 1,	(1)Rad Rašo d.o.o., 31000 Užice, SERBIA (2)Western Serbia Academy of Applied Studies – Užice Department, Užice, SERBIA  Kosovo and Metohija Academy of
	SIMULATION SOFTWARE AS HELP IN LEARNING CONCEPTS OF STRENGTH OF MATERIALS	PhD;	Applied Studies, Leposavić, SERBIA
12.	CLASSIFICATION, RISKS, CONSEQUENCES AND SAFETY PROCESSES IN WORKING WITH CHEMICALS	Zoran Čeganjac, PhD(1); Marko Pavlović, PhD(2); Djordje Mihailović, PhD(1); Nevena Miletović, MSc(1);	(1)Academy of Professional Studies Šumadija, Department in Aranđelovac, Aranđelovac, SERBIA (2)Academy Innovation Center of the Faculty of Mechanical Engineering, Belgrade, SERBIA
13.	REFURBISHMENT BY WELDING OF DRILLING HOE WORN AREAS USING HIGH ENTROPY ALLOYS FILLER METAL	Elena Violeta Stefanescu Paveliu, PhD(1); Ionelia Voiculescu, PhD(1); Victor Geanta, PhD(1); Emilia Florina Binchiciu, PhD(2);	(1)University Politehnica of Bucharest, Bucharest, ROMANIA (2)ISIM Timisoara, Timisoara, ROMANIA
14.	SEM EDX OF PM 2.5 PARTICLES AND IT'S IMPACT TO CARDIOVASCULAR DISEASES IN UŽICE TOWN CORE, SERBIA	Mirjana Čvijović, PhD(1); spec. Dragan Čučković, MSc(2); Filip Rajković, MSc(3); Ana Čudić, PhD student(4);	(1)Institute for Microbiology and Immunology, Faculty of Medicine , Belgrade, SERBIA (2)Institute of Public Helth, Užice, SERBIA (3)Faculty of Mining and Geology, Belgrade, SERBIA (4)Faculty of Earth and Life Sciences, Vrije, Biomedical Sciences , Amsterdam, NETHERLANDS
15.	VISUAL EFFECT OF ARTISTIC ELEMENTS OF VALUE AND COLOR ON THE MOOD AND WORK PERFORMANCE OF THE SPACE USERS	Aleksandar Dimitrijević, PhD; Ivana Ćirović, PhD;	Western Serbia Academy of Applied Studies – Užice Department, Užice, SERBIA
16.	ERGONOMIC PRINCIPLES IN DESIGNING SPACE, FURNITURE AND EQUIPMENT FOR PRESCHOOL INSTITUTIONS	Ivana Ćirović, PhD; Aleksandar Dimitrijević, PhD; Jana Vasiljević, MSc;	Western Serbia Academy of Applied Studies – Užice Department, Užice, SERBIA

## (17:00-19:00) CONFERENCE HALL

			CHAIRS SLAVKA MITRIČEVIĆ, Ph.D. ŽELJKO KARGANOVIĆ, spec.	
SE	SESSION:			
Me	edicine and Health Care			
Nº	Title of paper	Author(s)	Institution	
1.	FOODBORNE BOTULISMUS - CASE REPORT	Sladjana Pavić, MD PhD(1); Željko Karganović, MD(2); Slavka Mitričević, DMD PhD(2);	(1)Department for Infectious and Tropical Diseases, General Hospital Užice, Užice, SERBIA (2)Western Serbia Academy of Applied Studies – Užice Department, Užice, SERBIA	
2.	RESEARCH OF FAKTORS DETERMINING THE PROVISION OF PREVENTIVE SERVICES IN PRIMARY HEALTH CARE IN SERBIA	Slavka Mitričević, DMD PhD(1), Slađana Pavić, MD PhD(2), Željko Karganović, MD(1)	(1)Western Serbia Academy of Applied Studies – Užice Department, Užice, SERBIA (2)Department for Infectious and Tropical Diseases, General Hospital Užice, Užice, SERBIA	
3.	CESTODE FAUNA – FISH PARASITES OF THE UNA RIVER	Isat Skenderović, PhD(1); Edina Hajdarević, PhD(1); Eldar Tanović, PhD(1); Ibro Skenderović, PhD(2);	(1)Faculty of Natural Sciences and Mathematics, University of Tuzla, Tuzla, BOSNIA AND HERZEGOVINA (2) The International University of Novi Pazar, Novi Pazar, SERBIA	
4.	FREQUENCY AND ANTIBIOTIC RESISTANCE OF BACTERIA THAT CAUSE URINARY TRACT INFECTIONS IN CHILDREN UNDER THE AGE OF SEVEN	Bogdanović Svetlana(1), Ranđelović Dobrila(1), Zlatanović Zvonko(1), Živković Marina(2)	(1)Academy of Professional Studies Toplica, Prokuplje, SERBIA (2)Zivkovic_lab, rokuplje, SERBIA	
5.	MANAGING BIOMEDICAL WASTE AT THE GENERAL HOSPITAL "DR. ALEKSA SAVIĆ" IN PROKUPLJE	Ivana Zlatković, PhD; spec. Svetlana Bogdanović; Zvonko Zlatanović, PhD; Zoran Petrović;	(1)Toplica Academy of Applied Studies, Department of Agricultural and Technological Studies Prokuplje, SERBIA (2)General Hospital "Dr Aleksa Savić" in Prokuplje, SERBIA	
6.	INCIDENCE OF E.COLI IN NON-NOSOCOMIAL INFECTIONS	Zlatanović Zvonko, Bogdanović Svetlana, Zlatković Ivana, Ranđelović Dobrila	Academy of Professional Studies Toplica, Prokuplje, SERBIA	
7.	A SEDENTARY LIFESTYLE IN POST-INDUSTRIAL SOCIETIES AND CONSEQUENCES FOR HUMAN HEALTH	Snežana Knežević, MD;	Health center Kraljevo, Kraljevo, SERBIA	
8.	FACTORS THAT AFFECT KNOWLEDGE AND ATTITUDES OF	Roland Antonić, Slobodanka Bogdanović	Academy of Professional Studies Šabac, Department of Medical and Business- Technological Studies, Šabac, SERBIA	

	PROFESSIONAL DRIVERS ABOUT THE INFLUENCE OF MEDICINES ON DRIVING ABILITY	Vasić, Katarina Pavić, Kosana Popović	
9.	RISK FACTORS FOR CARDIOVASCULAR DISEASES IN THE STUDENT POPULATION	Slobodanka Bogdanović Vasić(1), Roland Antonić(1), Nikola Savić(2), Katarina Pavić(1)	(1)Academy of Professional Studies Šabac, Department of Medical and Business-Technological Studies, Šabac,SERBIA (2)Medical School "Dr Miša Pantić", Valjevo, Singidunum University, Faculty of Health and Business Studies Valjevo, SERBIA
10.	PREVENTIVE MEASURES TO COMBAT FATIGUE AND INCREASE WORK CAPACITY	Željko Karganović, MD(1), Sladjana Pavić, MD PhD(2), Slavka Mitričević, DMD PhD(1);	(1)Western Serbia Academy of Applied Studies – Užice Department, Užice, SERBIA (2)Department for Infectious and Tropical Diseases, General Hospital Užice, Užice, SERBIA
11.	NUTRITIONAL IMPACT ON BRAIN FUNCTION: FOOD FOR THOUGHT, EMOTIONS AND WELLBEING	Tatjana Marinković, PhD(1); Dragan Marinković, PhD(2);	(1)Academy of Applied Technical Studies Belgrade, Belgrade, SERBIA (2)University of Belgrade-Faculty of Special Education and Rehabilitation, Belgrade, SERBIA
12.	FREQUENCY OF CHROMOSOMAL ABERRATION IN PERIPHERAL BLOOD OF THE POPULATION IN SOUTH AND EAST SERBIA	spec. Bogdanović Svetlana; Zlatković Ivana, PhD; spec.Jugović Dragana; spec. Branković Ljiljana;	(1)Academy of Applied Studies Toplica, Prokuplje, SERBIA (2)University Clinical Centre Niš, Laboratory for Immunology and Genetics, Centre for Medical and Clinical Biochemistry, Niš, SERBIA
13.	REPRESENTATION OF CERVICAL CANCER IN THE CITY OF UZICE IN RELATION TO ZLATIBOR DISTRICT AND CENTRAL SERBIA	Slavka Mitričević, DMD PhD(1); Slađana Popović, BSN(2); Jelena Ristović, BSN(3);	(1)Western Serbia Academy of Applied Studies – Užice Department, Užice, SERBIA (2)Health Center Uzice, Public Health Center, Uzice, SERBIA (3)Health Center Užice, General Hospital, Uzice, SERBIA, SERBIA
14.	DEVELOPMENT OF CARDIOVASCULAR COMPLICATIONS IN PEOPLE IN ISOLATION DUE TO THE COVID 19 PANDEMIC	Jelena Raković Radivojević, MD(1); Aleksandra Pavić, MD(2); Željko Karganović, MD(2); Ivanka Đuričić, MD(1);	(1)Western Serbia Academy of Applied Studies, Department Užice, , SERBIA (2)Clinical Center of Serbia, Belgrade, SERBIA
15.	MANAGING BIOMEDICAL WASTE AT THE PROKUPLJE HEALTH CENTER BEFORE AND AFTER COVID-19 PANDEMIC	Ivana Zlatković, PhD(1); Dobrila Ranđelović, Mr(1); Zvonko Zlatanović, PhD(1); Gordana Mihajlović(2);	(1)Toplica Academy of Applied Studies, Department of Agricultural and Technological Studies, Prokuplje, SERBIA (2)Prokuplje Health Center, SERBIA
16.	PRIMARY DISEASES OF THE HEART MUSCLE-DEFINITION AND CLASSIFICATION	Dara Savić Božović, MD PhD(1); Branko Božović, MD(2); Mirjana Ćopić, BSN(3);	(1)Western Serbia Academy of Applied Studies, Department Užice, , SERBIA (2)Volunteer specialization (3)Health Center Uzice, General Hospital, Uzice, SERBIA

17.	GROWTH PATTERN OF NEW ILLNESSES IN RELATION TO OTHER LUNG DISEASES AND RISK FACTORS	Ivanka Djuricic, MSc(1); Milena Ljujic, LPN(2); Jelena Ristovic, LPN(3);	(1)Western Serbia Academy of Applied Studies – Užice Department, Užice, SERBIA (2)Pneumophthisiology service Uzice General Hospital, SERBIA (3)Surgical intensive care and therapy service Uzice General Hospital, Uzice, SERBIA
	THE IMPORTANCE OF THE APPLICATION OF MECHANICAL VENTILATION IN TRAUMATED PATIENTS FROM THE ASPECT OF HEALTHCARE-CASE REPORT	Rada Milić, BSN(1); Jelena Raković Radivojević, MD(2); Dušica Jovićević, BSN(1);	(1)Health Center Užice, General Hospital Užice, SERBIA (2)Western Serbia Academy of Applied Studies, Department Užice, SERBIA
19.	CHILDREN - DILEMMA AND TRAPS REPORT OF CASES	Dara Savić Božović, MD PhD(1); Branko Božović, MD(1); Mirjana Ćopić, BSN(3);	(1)Western Serbia Academy of Applied Studies, Department Užice, , SERBIA (2)Volunteer specialization (3)Health Center Uzice, General Hospital, Uzice, SERBIA
20.	INTERPERSONAL COMMUNICATION IN HEALTHCARE	Ivana Bojović, PhD;	Academy of Applied Sciences Western Serbia, Uzice Department, Uzice, SERBIA
21.	PROFESSIONAL CHALLENGES IN THE GERIATRIC POPULATION – DILEMMA AND PREJUDICES	Jelena Raković Radivojević, MD; Rada Milić, BSN;	(1)Academy of Applied Sciences Western Serbia, Uzice Department, Užice, SERBIA (2)Health Center Užice, General Hospital Užice, SERBIA
22.	SELF ASSESSMENT OF HEALTH-RELATED QUALITY OF LIFE IN YOUTH WITH TYPE 1 DIABETES MELLITUS AND COMORBIDITIES	Mirjana Smuđa(1,2); Tatjana Milenković(3); Vera Zdravković(4,5); Dragana Milutinović(6);	(1)Academy for Applied Studies Belgrade, The College of Health Sciences, Belgrade, SERBIA (2)University of Novi Sad, Faculty of Medicine, SERBIA (3)Department of Endocrinology, Mother and Child Health Care Institute of Serbia "Dr Vukan Cupic", SERBIA (4)University of Belgrade, Faculty of Medicine, Belgrade, SERBIA (5)University Children's Hospital Belgrade, Belgrade, SERBIA (6)Department of Nursing, Faculty of Medicine, University of Novi Sad, Novi Sad, SERBIA

23.	A REVIEW OF THE	Marijana Srećković,	(1)Academy of Professional Studies
	EPIDEMIOLOGY AND	(1,2,3); Vesna Ignjatović,	Šabac, SERBIA
	EXOGENOUS RISK FACTORS	(4); Nikola Beljić, (1);	(2)Public Health Institute
	FOR BLADDER CANCER	Aleksandra	Šabac, SERBIA
		Krsmanović(1);	(3)Faculty of Medicine, University of
			Novi Sad, SERBIA
			(4)Department for Nuclear Medicine,
			Faculty of medical sciences, University
			of Kragujevac, SERBIA
24.	ASSESSMENT AND SELF-	Biljana Stojanović	Academy of Applied Studies, Belgrade,
	ASSESSMENT OF THE	Jovanović, PhD; Stevan	The College of Health Studies,
	COMPETENCES OF TEACHING	Jovanović, PhD; Ivan	Belgrade, SERBIA
	ASSOCIATES IN NURSING	Tanasić, PhD; Nataša	
	CARE	Stojković;	
25.	ACTIVE LISTENING: THE KEY	Ivana Bojović, PHD(1);	(1)Western Serbia Academy of Applied
	OF SUCCESSFUL	Marija Nikolić, BSc(2);	Studies - Uzice Department,
	COMMUNICATION IN		Uzice, SERBIA
	HEALTHCARE		(2)Medical school, Uzice, SERBIA

## THIRD DAY - WEDNESDAY, 7th JUNE 2023

## (10:30-11:30) WORKSHOP:

# Education 3.0 And Social Networkbased Education FOR EFFECTIVE LEARNING AND INTEGRATION WITH INDUSTRY

CHAIRS G

GORAN D. PUTNIK, (Professor)

University Of Minho,

Department Of Production And Systems Engineering

## (12:00-15:00) TRIP TO GRABAK WINERY

### (17:00-19:00) ROUND TABLE:

Exploring Opportunities and Challenges of Networking Among Higher Education and Research: Research Data as Machine Learning Educational Tasks

CHAIRS

DRAGAN MARKUSHEV, Ph.D. ALEKSANDAR KUPUSINAC. Ph.D.

MIROSLAVA JORDOVIĆ PAVLOVIĆ. Ph.D.

(19:00-20:00) CLOSING REMARKS

Ljiljana Trumbulovic, Ph.D.

Vice-President of Organizing Committee

### **NOTES**

### NOTES

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