



4561-1-3



## Contemporary Trends and Multidisciplinary Issues in Nowadays Society

### 1ST INTERNATIONAL SCIENTIFIC CONFERENCE

#### Session 1.1 / Law

property administration , local government, compliance audit process, public and state property, The institute of extradition , Albanians judicial system and international one., Domestic violence, policing paradigm of COVID-19 Pandemic , law enforcement challenges, Legal-criminal protection of signators , executive with the legislative , vocational education, judicial remedy , Divine Law ,

#### Session 2.1/Economics

Excise tax , acquis communautaire-comparative analysis, Entrepreneurial Creativity, Innovation, Entrepreneurial Education, Risk-Taking Propensity on Entrepreneurial Intention, education, gender, and infrastructure in hidden unemployment in rural area, protected brands , Unfair terms , Economic Development , trade, foreign investment and financial development , unemployment, the Regulatory Issues , Emerging Distribution Photovoltaic Market in Albania, economic performance, Covid- 19 Pandemic

#### Session 3.1: ICT

Intelligent Farming , Global Climate changes, Fourier-enhanced Near-Field Microscopy, online shopping , Data Mining Techniques, Cloud Computing, smartphone for the purpose of student learning, Webometrics , Smart metering, knowledge management, bank branches in digital area

#### Session 4.1: Education

optimal learning environment , generation Z students, comparative study , Law, Finance, & ICT at Luarasi university vs three UK universities, high education , political participation, Developing policies , English language curricula , Albanian education system , Online Teaching Practices , progress within the field of higher education in Albania, economical informatics subjects, different universities, regression discontinuity in quasi experimental, dual education, vocational education

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**International Scientific Conference of "Contemporary Trends and Multidisciplinary Issues in Nowadays Society"**

**Tirana, Albania, 8th October 2020**

**CONFERENCE PROCEEDINGS**

**ABSTRACT PAPERS**

**Editors**

Assoc. Prof. Dr. Nazmi Xhomara

Msc. Ernest Balili

Msc. Nives Lamçe

Msc. Luan Sinanaj

**ISBN: 978-9928-4561-1-3**



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## **Independence and the Pandemic: The relationship of the executive with the legislative in dealing with the Pandemic Covid 19**

**Dr. Dorina Gjipali**

[dorina.gjipali@luarasi-univ.edu.al](mailto:dorina.gjipali@luarasi-univ.edu.al),

Luarasi University, Tirana, Albania

### ***Abstract***

*Seen through the eyes of law researchers, the Covid Pandemic 19 has created and highlighted several issues related to law that affect constitutional principles, sources of law, the form of the state but also a very delicate aspect such as the relationship created between the executive and the legislative in dealing with this health emergency.*

*This paper aims to bring to attention exactly how the relationship between the executive and the legislative has changed during the health emergency caused by the pandemic by analyzing the constitutional provisions.*

*The paper will focus on the exercise of legislative competence by the executive based on the emergent situation but also by analyzing the role of the legislative power and how much independence is respected, the principle of separation of powers and the preservation of constitutional balances.*

*Despite that and emphasizing the legal aspect, the pandemic we are living in is not only threatening the lives of people but is threatening the legal system as a whole, the constitutional principles, in substance the rule of law.*

***Key words:*** Covid-19, health, executive, constitution, rule of law



## **Domestic Violence**

**MSc. Saimir Vishaj**

[saimir.vishaj@luarasi-univ.edu.al](mailto:saimir.vishaj@luarasi-univ.edu.al),

Luarasi University, Tirana, Albania

### ***Abstract***

*In this paper will be presented a comparative structure of criminal norms interlinked in the Criminal Procedure Code in accordance with the Constitution of the Republic of Albania. Domestic violence is a worrying element we face every day. Both the perpetrators and the victims have an active role in this criminal act.*

*Regarding the legislator, which has taken the initiative and from European norms, was adopted in 2006 the law on domestic violence. Problems in this area have gaps and leave room for discussion. As in the penal code norms, they do not find an adequate approach to normality associated with this phenomenon. Often times there is an internal conflict between norms, whether or not a part of a family affects a stumbling block, losing the correction function that is expressed in the Constitution.*

*It belongs to the legislator, social operators, individuals, and not only, to take the initiative to address the competent bodies for updating this criminal figure provided by the Criminal Code. An important role in preventing and reducing this play is not only the legislator but also the media in its entirety with the development force.*

**Keywords:** *Criminal Procedure Code, Constitution, domestic violence, European Norms*



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## **Challenges of vocational education in the pre-university and university system in the Republic of Albania seen from the legal point of view**

**Dr. Blerina Shkurti (Masha)**

[blerina.shkurti@luarasi-univ.edu.al](mailto:blerina.shkurti@luarasi-univ.edu.al)

Luarasi University, Tirana, Albania

### **Abstract**

*This study aims to address the problems encountered by vocational education in the Republic of Albania starting from the pre-university system and continuing to that of higher education. Analyzing the main challenges faced by Vocational Education due to the lack of legal acts which should aim not only to regulate this educational profile in general but also the continuity of studies in this field of education.*

*The main objectives of the study focus on the legal background and its implementation by the competent authorities.*

*The research questions in this study are related to the identification of the main actors involved in this field of education, the identification of legal spaces and barriers that the providers of this type of education face in their daily life, the compatibility of teaching / academic profiles / offers with the demands of the national market and not only.*

*This study will be based on the methodology of reviewing the legal basis in force, legal acts in their implementation, annual reports and related documents as well as data collection through a consultation process / interviews with actors in this field.*

*At the end of the study, recommendations will be drafted to improve the legal framework and improve the offer in this regard.*

**Key words:** Vocational Education, legal framework, challenges



## **Albanian Democracy and Executive Law-making: principles and practice**

**Dr. Doris Malaj (Koliqi), PhD. C. Erion Malaj**

[doris.malaj@luarasi-univ.edu.al](mailto:doris.malaj@luarasi-univ.edu.al) [erion.malaj@luarasi-univ.edu.al](mailto:erion.malaj@luarasi-univ.edu.al)

Luarasi University, Tirana, Albania

### **Abstract**

*One of the most basic of all constitutional principles is that law is made by parliament. It is so basic that it is simply assumed, by the Albanian and most other constitutions. As the only elected institution in the Albanian system of government, parliament is the only body with sufficient legitimacy to exercise a power of this kind. Nevertheless, various studies show the tendency of the executive power to overlap this parliaments legitimacy.*

*This paper aims to analyze if the executive monopoly in the law-making process tends to question the real power of the parliament as a legislative power and to show the implications this have for the democratic system. In the first part of the paper the constitutional principles and mechanisms should be analyzed, to continue then, in the second part of the paper with the political practice in Albania and concluding with the implications that the executive law-making has for the whole political system and its consolidation.*

**Key words:** *executive law –making, checks and balances, separation of power, democracy, constitution.*



## **The new policing paradigm of COVID-19 Pandemic and law enforcement challenges. The case of Albania**

**Dr. Hasan Shkëmbi**

[hasan.shkemi@luarasi-univ.edu.al](mailto:hasan.shkemi@luarasi-univ.edu.al)

Luarasi University, Tirana, Albania

### ***Abstract***

*From 9/11 until recently, national security was dominated by the threat of terrorism, while nowadays health risk is at the top of the list of global insecurities. Against this background of major danger, the police today are facing major challenges of health, ethical-professional and legal. The purpose of this presentation is to examine some new police roles and practices during the pandemic crisis; the challenges that this situation creates; several different policing approaches to developing the two-dimensional police response and the new role in the complex context created by the Covid-19 pandemic crisis, to operate in the wider environment guaranteeing freedoms and human rights. The basic hypothesis is: pandemic policing presents a new paradigm in policing that requires a whole new approach and specific operation in unknown terrain. The basic study methods are: observation, analysis, synthesis, comparison and case study during pandemic policing. It is recommended that the police be well trained, implement new strategies to maintain public order and security and manage the pandemic crisis through a combination of traditional public safety techniques and the application of innovative policing approaches, and respect human rights.*

**Keywords:** *terrorism, Covid-19, police, legal, health*







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## **Risks in property administration by local government. Analysis based on the compliance audit process**

**Prof. Asoc.Dr. Helga Vukaj, Msc. Irida Danaj**

[helga.vukaj@luarasi-univ.edu.al](mailto:helga.vukaj@luarasi-univ.edu.al) [irida-88@hotmail.com](mailto:irida-88@hotmail.com)

Luarasi University, Tirana, Albania

### **Abstract**

*In the framework of the territorial reform, the competencies of the Local Government Units have already been concentrated at the level of primary administration by the LGUs themselves for the stable assets located within their territorial jurisdiction.*

*The functions of local government units are divided into delegated, joint and own functions. In relation to its functions, which are provided by law, LGUs have full administrative, service, investment and regulatory powers.*

*In the context of the exposure of risks related to the management of fixed assets or in the legal language of state and public immovable properties, the paper reflects concrete cases with negative impact, identified in local and central entities, related to each other.*

*Consideration of these clues would serve to take measures to activate internal verification, control and audit mechanisms.*

*What we can consider the phenomenon has to do with: illegal registrations of property deeds (AMTP); Transfer of properties from use status to ownership status. This was done by DAMT in the Regions, - which continued to pass the carpets from use to ownership, without the existence of legal will (there was still no law), moreover when these parcels resulted in a legal state "state". After these abusive actions, IPRO performed "without any problem" their registration as private property in the property registers; although they had not yet been verified by the Property Securities Verification Commissions. This procedure is a flagrant violation.*

**Keywords:** *Local Government Unit, investment, AMTP, DAMT, IPRO, property*



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**Legal Definition of Public and State Property Analytical Considerations**  
**Prof. Asocc. Dr. Helga Vukaj, Dr. Ylli Pjetërnikaj**

[helga.vukaj@luarasi-univ.edu.al](mailto:helga.vukaj@luarasi-univ.edu.al) [ylli\\_1987@live.com](mailto:ylli_1987@live.com)

Luarasi University, Tirana, Albania

**Abstract**

*Given the importance of real estate in a country in both civil and economic terms, this paper presents a technical-legal treatment that sheds light on this institute of law. The treatment aims to reveal legal gaps and irregularities in the treatment of public and state property, thus leading to the loss of ownership and administration by the state. In view of the context of this paper, we also refer to Law no. 8743, dated 22.2.2001 "On State immovable properties", amended by law no. 9558, dated 08.06.2006, which stipulates that in its article 1, the legal regime of state immovable property categories and responsibilities for their administration. In parallel, the analysis is conducted based on the Civil Code. In addition to these properties, the state is the disposer and administrator of non-public properties, which according to Article 4 are defined: Non-public immovable properties of the state. State immovable properties, which are not public property, such as: agricultural land, lands, buildings, solidified assets of enterprises under state administration, as well as other properties of this type, if they are not subject to special legal provisions, have a legal regime equal to private property and are subject to the rules provided in the Civil Code. With this definition, the legislator leaves the same space for development and improvement for non-public properties with those of private properties. This means that this category of properties can become the object of legal-civil relations, following the regulation set out in the Civil Code. But even this does not happen during the procedures for establishing new civil legal relations.*

**Keywords:** legal gaps, property, Law no. 8743, Civil Code, legal civil relations



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**Divine Law (natural law) in the face of changes in Terrestrial Law (positive law) (regarding changes in the Criminal Code due to the Covid-19 Pandemic)**

**Dr. Lorenc Stojani (LL.M)**

[lorenc.stojani@luarasi-univ.edu.al](mailto:lorenc.stojani@luarasi-univ.edu.al)

Luarasi University, Tirana, Albania

***Abstract***

*No law can be Good (positive) if it is simply a law-based rule. A Good law must also be a right law.*

*No law can be right if under the "guise" of "Good" for the body it is harmful to the soul. Any law that is harmful to the soul is also harmful to the body.*

*The spirit of the letter of the law must conform to the spirit of the human soul. And the human soul must conform to the Spirit of its Creator.*

***Keywords:*** *Creator, Criminal Law, Covid-19, Infectious diseases, God of Salvation*



## **The right to judicial remedy and access to impartial tribunals**

Prof. Asocc. Dr. Rezana Konomi

[rezana.konomi@luarasi-univ.edu.al](mailto:rezana.konomi@luarasi-univ.edu.al)

Luarasi University, Tirana, Albania

### **Abstract**

*The right to seek judicial remedies and the access thereof, is an essential element required to uphold the adherence to an impartially rectifying legal procedure, specifically in the context of correct procedural safeguards. The latter is closely linked to the reverence and upholding of a vigorous judicial system. Examined via the afore mentioned reservations, judicial access is a vital element for the implementation and rule of law. In light of the preceding paragraph, I want to address certain aspects of this right which in itself contains various indispensable elements, which are codified in the Constitution of the Republic of Albania, domestic law as well as in numerous international treaties. The transparency of judicial processes and tribunals thereof, together with the public access to such remedies frame a crucial set of components for initiating accountability and an enhanced trust towards the judicial system. Most importantly, the current developments in Albania draw attention to an important dimension of the afore mentioned elements, due to the deep legal reform commencing an extrication from corruption and political influence. Based on a close examination of the international standards set forth by the ECtHR and the Constitutional Court regarding access to impartial tribunals, we can derive that the right to seek judicial remedy is a complex prerogative, whereby the entitlement to be heard by an impartial tribunal is a vital component of the latter. Highlighting and analyzing the determining factors regarding access to justice within a reasonable time, allows us to better understand the issues leading to the infringements of these rights, and an effective means of providing sufficient remedies for preventing future breaches of Article 42 of the Constitution, and ECHR.*

**Key words:** *access, transparency, judicial, standards, rights, trust, accountability*



## **Road Safety as an Integration between Preventive Security and Reactive Security**

**Dr. Xhavit Shala**

[xhavit.shala@luarasi-univ.edu.al](mailto:xhavit.shala@luarasi-univ.edu.al),

Luarasi University, Tirana, Albania

### **Abstract**

*The purpose and objectives of this paper are to scan, analyze, evaluate and identify issues related to car accidents and road safety, as well as influencing factors, with the aim of providing recommendations for improving policies to prevent and reduce accidents and improve road safety. Road safety must be understood and valued as a public and personal good, an important part of public and national safety, accepted and implemented as a fundamental human right. The road safety process is a continuous interaction between several factors and to mention among the most important are the behavior of road users, safety and conditions of road infrastructure as well as the characteristics of vehicles. It is a combination of preventive safety (accident prevention) with reactive safety (recovery of an emergency situation). In this paper, have been applied basic scientific research methods and instruments. The findings of this paper fully confirm our hypothesis that road safety is a process of continuous interaction of road user behavior, safety and road infrastructure conditions as well as the safety of vehicles themselves. Relevant recommendations are given at the end of the paper.*

**Keywords:** Accident, road safety, road users, road transport, safety perception.



## **The institute of extradition as an essential cooperation element between Albanians judicial system and international one**

**MSc. Xhesika Bazaj**

[xhesikabazaj@gmail.com](mailto:xhesikabazaj@gmail.com)

Faculty of Law, University of Tirana, Albania

### **Abstract**

*The extradition institute is one of the main forms of international judicial cooperation with foreign authorities in the field of jurisdictional relations, being the only way to deliver a citizen for the purposes of executing a judicial or criminal judgment. Article 39/2 of the Constitution of Albania provides that extradition may be permitted only when expressly provided for in international agreements to which the Republic of Albania is part only by judicial decision. The Convention and the domestic legislation make the approval of the extradition request subject to the fulfillment of a number of conditions and procedures by the requesting State authorities and the requested State authorities.*

**Key words:** *Extradition, Albanian Constitution, International judicial cooperation.*



## **Legal-Criminal Protection of Signators in the Financial and Public Services Sector**

**Dr. Ylli Pjetërnikaj Prof. Asoc. Dr Helga Vukaj**

[ylli\\_1987@live.com](mailto:ylli_1987@live.com), [helga.vukaj@luarasi-univ.edu.al](mailto:helga.vukaj@luarasi-univ.edu.al)

Faculty of Law, University of Tirana, Albania

### **Abstract**

*One of the most important dimensions of measures to fight corruption is the protection of whistle-blowers, which is also one of the most discussed topics in various international forums over the past decade. The protection of whistleblowers contributes on creating an environment that favors good work and sustainable growth, reduces tolerance for corruption, strengthens oversight bodies responsible for ensuring fair and good working conditions, and increases transparency in financial transactions. affecting both the public and financial sectors. Such protection protects public investment in infrastructure, can encourage investment in quality social services by reducing access inequalities, and promotes enterprise development and increased educational opportunities. In Albania for the first time, we have a legal framework that addresses this issue. In this paper, the aspects that will be addressed are related to the reflection of the current legal framework of signaling, including the analytical framework to assess national legislation in the field of protection, as well as the regulatory framework of the European Union (EU) for the protection of whistleblowers. Also, the comparative aspects with the legal frameworks and practices of other countries, in particular the analysis of the jurisprudence of the European Court of Human Rights are an important dimension, which clearly contributes to the understanding, implementation, and effectiveness of this institution in our society.*

**Keywords:** *European Union, whistleblowers, European Court of Human Rights, corruption*





## **Social security system in Albania: An alternative implementation**

**Prof. Assoc. Dr. Mateo Spaho**

Dean of Economic Faculty, "Luarasi" University, Tirana, Albania

[mateo.spaho@libero.it](mailto:mateo.spaho@libero.it)

### **Astract**

*The Albanian Social Security System has served its primary functions during the transition time in the country but now it is experiencing some specific problems, which lead to a necessary reformation of this system.*

*Firstly, the profits of the pensioners are very low, and they tend to lower further. Secondly, the gap between the level of contribution paid and the level of profits attained is very big and unjust. Thirdly, this system is causing unbearable financial cost on government budget leading to a deficit in this budget. Fourthly, a good part of working force today it is not insured due to the high levels of the informality and unemployment.*

*Therefore, the Albanian system of pensions cannot balance the level between the inflows and costs.*

*In the analysis, after having described and figured out the big picture regarding the pension system in Albania, we will forward a proposal a new scheme of social security system. This new scheme will consist in a positive correlative between the level of contributions and the level of income benefited by the insured.*

*The new scheme consists in compulsory social security payment in different private companies. This will make compulsory the third column of the pension system and will outplay the Institution of Social Security.*

*Based on the new scheme we will conduct a projection for a period of 10 years starting from 2020 until 2030. On the reported results will be included the effect of the reform on the budget and the effect on several types of pensions that different pensioners would be eligible.*

**Key words:** *Pensions system, Reform, Deficit, Social Security, Insurance Companies.*



## **Problems of economic performance during the Covid- 19 Pandemic in Albania**

**PhD (c) Fabian Pjetri**

Lecturer, "Luarasi" University, Tirana, Albania

[fabian.pjetri@luarasi-univ.edu.al](mailto:fabian.pjetri@luarasi-univ.edu.al)

**Prof. Assoc. Dr. Leontiev Çuçi**

Lecturer, Head of the Department of Economics, "Luarasi" University, Tirana, Albania

[leontiev.cuci@luarasi-univ.edu.al](mailto:leontiev.cuci@luarasi-univ.edu.al)

### **Abstract**

*In this paper the authors, have tried to make a simple presentation of the economic progress of our country during the pandemic period.*

*We have considered some of the main macroeconomic indicators and tried to analyze their progress and impact during this period based on official data published by the institutions of our country. The fragile state of the Albanian economy has had a very deep impact, especially on Albanian families, where a good part of them have been put in difficulty as a result of the massive loss of jobs. The authors have suggested some possible ideas which can be applied by public and private sector institutions to alleviate the situation created by the pandemic.*

**Key words:** *Unemployment Rate, GDP, Foreign Direct Investment, SME, Inflation, Government Spending*



### **Brand influence on consumer’s taste – An Albanian perspective**

**Dr. Aelita Mani**

Lecturer, Head of the Department of Business Administration, “Luarasi” University, Tirana,  
Albania

[aelita.mani@luarasi-univ.edu.al](mailto:aelita.mani@luarasi-univ.edu.al)

**Nives Lamçe PhD (c)**

Lecturer, Department of Business Administration, “Luarasi” University, Tirana, Albania

[nives.lamce@luarasi-univ.edu.al](mailto:nives.lamce@luarasi-univ.edu.al)

**Dr. Gentian Hoxhalli**

Lecturer, Head of the Department of Mathematics and Statistics, “Luarasi” University, Tirana,  
Albania

[gentian.hoxhalli@luarasi-univ.edu.al](mailto:gentian.hoxhalli@luarasi-univ.edu.al)

**MSc. Hygerta Çejku**

“Luarasi” University, Tirana, Albania

[hygerta.cejku@luarasi-univ.edu.al](mailto:hygerta.cejku@luarasi-univ.edu.al)

#### **Abstract**

*This paper studies the relationship between brand name and purchase of branded products, between the latter and the purchase of initially unnecessary products of strong brands mainly because of emotional satisfaction and prestige sense of community conferred by the brand and between the latter and the change in consumer’s taste about these products. Brand is a very important aspect of a product and one of the first and strongest connection to it, as consumers often identify themselves to the brand more than to the product itself. This was investigated using a qualitative method by means of a questionnaire and a correlation analysis. The results showed a strong and positive relationship between these variables and they increased the theoretical understanding of this issue, especially in Albania where the culture of scientific research is still not as developed as it should be. The findings are important for marketers to know the power of brands in the buying decision and to consider marketing ethics in their strategies, as well as for consumers to know the risk of their “brand dependency”.*

**Key words:** Discretionary purchase, emotional satisfaction, habit, marketing ethics.



## **Young people in the face of unemployment (The case of Albania)**

**Prof. Assoc. Dr. Stefan Qirici**

[stefan.qirici@luarasi-univ.edu.al](mailto:stefan.qirici@luarasi-univ.edu.al)

Luarasi University, Tirana, Albania

### ***Abstract***

*In the early 1990s, Albania entered a period of transition from a centralized economy to a market economy. 30 years have passed, and this difficult period is not yet coming to an end! During this 30-year period, several reforms have been undertaken in various fields and of course they have brought about some noticeable changes.*

*But the situation in the labor market continues to be problematic. The nationwide unemployment rate is still in double digits. The most aggravated are the employment situations in the ranks of young people. The youth unemployment rate continues to be 2 times higher than that on an economic scale.*

*Also, young people face many difficulties to enter the labor market. Therefore, improving the labor market performance for young people should be a key priority and a clear objective for policy makers, especially for our country which is still in a period of prolonged transition.*

*Better understanding of youth dynamics among youth and other related indicators, at national and regional level, is particularly important for designing appropriate and effective labor market policies.*

*The paper, based on data from INSTAT, Albania, tries to present the current situation in the labor market for young people in our country, to identify the main factors affecting youth unemployment (employment), and based on its findings to provide some recommendations.*

**Keywords:** *Labor market, Labor force, Labor force participation, Unemployment rate; NEET, etc.*



## **Overcoming the Regulatory Commercial Issues in the Emerging Distributed Photovoltaic Resources in Albania**

**Dr. Lorenc Gordani**

[lorenc\\_gordani@albaniaenergy.org](mailto:lorenc_gordani@albaniaenergy.org)

Professor of Business and Public Law, Head of the Department of Professional Masters in the Faculty of Law at the Tirana Business University (TBU), Tirana, Albania

### **Abstract**

*The deployment of alternative renewable resources has become a vital priority for Albania. Consider that the country remains a net-importer form around 20 years - on average for one-third of its needs - the issue is how to complete this gap without putting the system (alias OSHEE) into severe financial difficulty.*

*On regard, the distribute resource candidates their self as a more suitable solution source. However, among many issues of this innovation, the most pressing mater becomes how the country can address the option of their remuneration and the determination of their level.*

*Based on daily practical experience and focusing on the latest updates, this paper analyses the legal and regulatory framework for photovoltaic developments. Further, it brings "a catalogue" of the different options for identifying and overcoming the complexity approach needed to address self-consumption deployment in Albania.*

**Key words:** *legal barriers, PV sources, Distribute energy sources, energy market tariffs, Electricity Distribution Operator.*



## **The effects of Entrepreneurial Creativity, Entrepreneurial Innovation, Entrepreneurial Education, Risk-Taking Propensity on Entrepreneurial Intention**

**MSc. Krist Bakiu**

[kristbakiu@gmail.com](mailto:kristbakiu@gmail.com)

Department of Business Administration, Luarasi "University", Faculty of Economy, Tirana,  
Albania

**MSc. Iden Hoxha**

[idenhoxha@gmail.com](mailto:idenhoxha@gmail.com)

"Credins Bank", Tirana, Albania

### **Abstract**

*The purpose of the study is to investigate the relationships between entrepreneurial creativity, innovation, entrepreneurial education, risk-taking propensity, and entrepreneurial intention, as well as the effects of between entrepreneurial creativity, innovation, entrepreneurial education, and risk-taking propensity on entrepreneurial intention. In the study, a quantitative method was used, by the means of a structured questionnaire. A sample of 100 students was taken. A correlational and a regression analysis were used in the study.*

*The results demonstrated that a positive correlation exists between entrepreneurial innovation, risk-taking propensity, and entrepreneurial intention, but no significant relationship exists between entrepreneurial intention and entrepreneurial creativity or entrepreneurial education. Also, it can be concluded that entrepreneurial creativity, innovation, entrepreneurial education, and risk-taking propensity impact entrepreneurial intention.*

**Keywords:** *Entrepreneurship, Education, Innovation*



## **Excise tax in Kosovo and harmonization with the *acquis communautaire* - comparative analysis**

**PhD Candidate Yll Mehmetaj**

University of Pristine, Law Faculty, Republic of Kosovo

[mehmetaj.yll@gmail.com](mailto:mehmetaj.yll@gmail.com),

**Ass. Prof. Anita Gligorova**

University of Europe – FON, Faculty of law and political science, Republic of North Macedonia

[anita.gligorova@fon.edu.mk](mailto:anita.gligorova@fon.edu.mk)

**PhD, Ass. Prof. Qazime Sherifi, PhD**

[qazime.sherifi@fon.edu.mk](mailto:qazime.sherifi@fon.edu.mk)

### ***Abstract***

*The paper addresses some of the important issues related to excise tax in Kosovo and their harmonization with the *acquis Communautaire*, the current legislation which is in force in the European Union. Their structure and functioning, and their impact on budget revenues in Kosovo, and their fiscal role in the country's economic growth and development.*

*Excise taxes are applied in order to achieve economic prosperity, and since countries with small and open economies must devote most of their activity to importing, and especially to the export component, then the use of these taxes will be in the great function of faster economic development and will have a direct impact both on the increase of imports and exports, as well as on the possible improvement of the overall economic performance.*

**Keywords:** *Excise, Taxes, Harmonization, Legislation, European Union*



## **Boosting Economic Development in Balkans Do trade, foreign investment and financial development provide the required panacea?**

**MSc. Egis Zaimaj**

Epoka University, Tirana

[ezaimaj@epoka.edu.al](mailto:ezaimaj@epoka.edu.al)

**MSc. Viola Xhafa**

Epoka University, Tirana

[vxhafa14@epoka.edu.al](mailto:vxhafa14@epoka.edu.al)

### **Abstract**

*The Balkan region is known for its favorable geographical location and natural resources. Despite these advantageous factors, the majority of countries in Balkans are failing in reaping the benefits and generating sustainable growth. Faced with the lack of mature, fully-functionable stock markets, these countries have to rely on other sources to boost economic development. International trade and FDIs can serve as the engine of growth if supported with sound financial markets. To examine this possibility, secondary data are collected and employed in a panel regression analysis. Data is obtained mainly from the World Bank and is of annual frequency. The econometric model uses GDP growth as a dependent variable and proxies such as FDI, real interest rate, trade, domestic credit, political stability index and other control variables as regressors. A random sample of Balkan countries is used in the analysis which builds on observations obtained over the last decade (2008-2018). Results suggest that political stability and gross fixed capital formation support economic development. Yet, the impact of international trade although it is often emphasized, appears to be statistically insignificant. This research is useful to academicians, researchers and particularly to policy makers in their decision-making process.*

**Keywords:** *Economic Growth, Determinants, Financial System, Balkan, Regression.*





## **The impact of education, gender, and infrastructure on hidden unemployment in rural areas**

**MSc. Resina Pllaha**

Lecturer, "Luarasi" University, Tirana, Albania

[resina.pllaha@luarasi-univ.edu.al](mailto:resina.pllaha@luarasi-univ.edu.al)

**MSc. Enxhi Mete**

Lecturer, "Luarasi" University, Tirana, Albania

[enxhi.mete@luarasi-univ.edu.al](mailto:enxhi.mete@luarasi-univ.edu.al)

### **Abstract**

*The labor market in rural areas is a somewhat unfamiliar territory that faces significant challenges compared to urban areas. Rural areas are mainly characterized by a lower-skilled workforce, limited opportunities, high reliance on subsistence agriculture, higher poverty levels and the like. Recently, there have been various improvements in rural areas regarding poverty reduction, economic activity, agricultural revival, etc. Our economy is characterized by highly differentiated work situations and most of them require special actions. Sectors are constantly growing at different levels having different needs as they are experiencing variations in the problems encountered and, in their ability, to fill all vacancies. The analysis has also shown a division in the labor market and differentiation into regions according to the ages and genders of the workforce, which requires a lot of study and many other analyzes. Lack of work experience, low educational skills, inadequate work attitudes, gender, infrastructural difficulties, access to information, lack of non-agricultural entities, distribution of natural resources have an impact on latent unemployment.*

**Key words:** *Hidden unemployment, infrastructure, non-agricultural units.*



## **Unfair terms in consumer credit contracts, protection of consumer rights**

**MSc. Ketjona Kaçupi**

[ketjonakacupi@gmail.com](mailto:ketjonakacupi@gmail.com)

### **Abstract**

*Consumer credit contracts are standard contracts, which means that the terms of the contract are drawn up by one of the parties (the trader). The limited display of consumer will, finds them vulnerable to unfair and aggressive practices imposed by traders. Although the role of the consumer contract in Albanian society has grown rapidly, there are very few studies in this area. This paper aims to clarify the concept of consumer credit contracts; contractual practices and conditions/terms which are considered unfair in accordance with European Union legislation; as well as the responsibility of traders regarding specific/practical cases. This paper will focus on legal remedies and means by which the protection of the rights and interests of consumers who have suffered damage due to unfair terms imposed on consumer contracts, will be realized.*

**Keywords:** *consumer, credit contract, unfair terms, trader.*



## **The Impact of Change Equation on Business Analysis**

**Msc. Jon Mani**

Product manager, Medical Distribution SHPK, Tirana, Albania

[jon.mani@luarasi-univ.edu.al](mailto:jon.mani@luarasi-univ.edu.al)

**Dr. Aelita Mani**

[aelita.mani@luarasi-univ.edu.al](mailto:aelita.mani@luarasi-univ.edu.al)

Lecturer, Head of the Department of Business Administration, “Luarasi” University, Tirana, Albania

**Nives Lamçe, MBA/ PhD (c)**

Lecturer, “Luarasi” University, Tirana, Albania

[nives.lamce@luarasi-univ.edu.al](mailto:nives.lamce@luarasi-univ.edu.al)

### **Abstract**

*The purpose of this study is to investigate the impact of the change equation in a business analysis, in businesses sustainable development. In this study, it is analyzed and discussed the operational development, business analysis and its importance to have a sustainable operational development, the change equation and a tool that help developing a good business analysis, start-ups, and the ways that the change equation can influence in doing a good business analysis in periodic periods. In this paper the case-study approach was used, as the author analyzed several business companies in Albania.*

*The research questions include: Does the change equation help in developing business potentials? Does the change equation help authors, managers, and administrators to judge whether the strategies that have been used until now have been effective?*

**Keywords:** *sustainable operational development, start-ups, Albania, authors, companies.*



## **Intelligent Farming as a response to Global Climate changes**

**Oliver L. Iliev<sup>1</sup>, Ahmad Zakeri<sup>2</sup>, Bojan Despodov<sup>1</sup>, Navya Venkateshaiah<sup>2</sup>, Simona Ivkowska<sup>1</sup>,  
Kyaw Min Naing<sup>2</sup>, Angela Dojcinovska<sup>1</sup>, Aleksandar Stojkovski<sup>1</sup>**

<sup>1</sup> Institute for Applied Sciences, American University of Europe AUE FON, Av. Kiro Gligorov,  
bb. 1000 Skopje, Republic of MACEDONIA

<sup>2</sup> School of Engineering, University of Wolverhampton, Wulfruna St. WV1 1LY,  
Wolverhampton, UNITED KINGDO

### **Abstract**

*In this paper we present the current status of the project for applying the techniques of Artificial Intelligence (AI) and Internet of Things (IoT) in agriculture. Contemporary Agriculture is facing numerous challenges due to the global climate changes. These challenges include: continually increasing demand for quality food, shortages of arable land, reduction of irrigation water, labor shortages, soil contamination by heavy metals and/or uncontrolled use of pesticides, permanent loss of yields due to the plant diseases and pests. In such circumstances, to maintain the efficiency of the agricultural industry the sector needs to resort to the latest networking and AI techniques in order to optimize resources and sustainably produce quality and ecologically healthy food. An integration tools based on IoT and Artificial Neural Networks (ANN) technologies will enable the industry to collect, process, transmit data and make autonomous decisions and actions based on incorporated informal knowledge obtained through using Fuzzy logic without need for human interaction. The capabilities offered by IoT including basic communications infrastructure (used to connect smart devices - from sensors, vehicles, Unmanned Aerial Vehicles (UAVs), to user-friendly mobile devices - using the Internet and a range of services, such as local or remote information retrieval, intelligent information analysis, pattern recognition and processes of autonomous decision making based on AI and agriculture automation. There is no doubt that such integrated technology will revolutionize the agricultural industry which is probably one of the most inefficient sectors today.*

**Key Words:** Artificial Intelligence, Artificial Neural networks, Fuzzy Logic, Internet of Things, Unmanned Aerial Vehicles.



## **Advanced metering infrastructure: smart meters and new technologies**

### **Prof. Assoc. Dr. Anni Dasho Sharko**

Vice Rector, Luarasi University, Tirana, Albania.

[anni.dasho@luarasi-univ.edu.al](mailto:anni.dasho@luarasi-univ.edu.al)

### **Prof. Asoc. Dr. Indrit Baholli**

Dean, Faculty of Information Technology and Innovation, Luarasi University, Tirana, Albania.

[indrit.baholli@luarasi-univ.edu.al](mailto:indrit.baholli@luarasi-univ.edu.al)

### **Prof. Assoc. Dr. Genci Sharko**

Lecturer, Electrical Engineering Faculty, Polytechnic University, Tirana, Albania

[genci.sharko@fie.upt.al](mailto:genci.sharko@fie.upt.al)

### **MSc. Endri Plasari**

Lecturer, Department of Economical Informatics, Faculty of Information Technology and Innovation,  
Luarasi University, Tirana, Albania

[endri.plasari@luarasi-univ.edu.al](mailto:endri.plasari@luarasi-univ.edu.al)

### **Abstract**

*The study aims to investigate advanced metering infrastructure, smart meters and new technologies used in practice. Advanced metering infrastructure (AMI) is deployed in many countries. AMI enables two-way communication meters reading electrical consumption at a higher frequency. This information can be processed in real-time and signals sent to manage demand. Demand-side management requires a lot of data processing to understand the load patterns and to design proper signals that enable optimal use of the distribution grid and manage reserve and frequency response. Collecting data at each meter is critical for energy suppliers and distribution system operators to better understand the patterns of electrical energy users so they can elaborate market signals and understand customer behavior. It is one of the interesting studies in the field.*

**Keywords:** *advanced metering infrastructure, smart meters, new technology*



## **The impact of Covid-19 pandemic on online shopping in the state of Albania**

**Luan Sinanaj<sup>1</sup>, Ana Boja<sup>2</sup>, Gazmira Brahushi<sup>3</sup>**

<sup>1</sup>luan.sinanaj@luarasi-univ.edu.al, Luarasi University, Tirana, Albania

<sup>2</sup>ana.boja@uet.edu.al, European University of Tirana, Tirana, Albania,

<sup>3</sup>gazmira.brahushi@kulogos.edu.al, Logos University College, Tirana, Albania

### **Abstract**

*Nowadays the use of technology has increased and extended to almost every aspect of life. The use of technology resulted particularly necessary at the time of the pandemic caused by Covid-19. It also impacted the use of technology for online shopping.*

*The paper aims to investigate the effect of the Covid-19 pandemic on online shopping. The quantitative method was used in the study. A structured questionnaire was used to collect the data. A sample of consumers who used the online shopping methods before the pandemic was selected to be used in the study. Sending emails and distributing the questionnaire on social networks where the population selected for the study. The sample consisted of 175 individuals.*

*The study showed that online sales in Albania increased, although with a not very high coefficient, and that a good part of Albanian citizens considered online sales and delivery service important, especially during the pandemic time. Also, the authors suggest that there is a need for improvements in online sales service.*

**Key words:** *e-commerce, pandemic, social commerce, online shopping, Covid-19*



## **Data Mining Techniques in Cloud Computing**

**Olta Llaha**

ol29064@seeu.edu.mk, South East European University, North Macedonia

### **Abstract**

*Cloud computing is a model that offers software delivery as a service, for businesses or individuals accessing it anytime and from any place. The cloud computing provides cheap and efficient solutions for massive data storage and analysis. Data Mining is a discipline, extending to the intersection of statistics, machine learning, data management, databases, recognition models, artificial intelligence and other areas. It provides the methodology and technology to transform data into useful information for decision making and it plays a guiding role in many areas of scientific research and business decisions, with far-reaching social and economic significance. This article discusses some of the data mining methods used in cloud computing, focusing on how they are implemented. Research on data mining in cloud computing environments has important theoretical significance to gain a better understanding of data mining techniques.*

**Key words:** *Data Mining, Cloud Computing, Data Mining Techniques, Machine Learning, businesses*



## Fourier-enhanced Near-Field Microscopy

1B. Gjonaj, 2A. David, and 3G. Bartal

<sup>1</sup>bergini@gmail.com, Albanian University, faculty of medical Sciences, Tirana, Albania.

<sup>2</sup>guy@ee.technion.ac.il , <sup>3</sup>asafd@tx.technion.ac.il Technion – Israel Institute of Technology,  
Department of Electrical Engineering, Haifa, Israel

### Abstract

*Temporal Fourier filtering is widely used to boost near-field measurements by substantially reducing the detected background radiation. The Spatial Fourier domain, on the other hand, is typically associated with Far-field optics, providing the means to improve the detection and signal-to-noise ratio for propagating waves, as well as valuable information about the characteristics of optical system. Here, we utilize phase-resolved near-field mapping to apply both temporal and spatial Fourier representations to enhance the capabilities of near-field microscopy. We experimentally study short-wavelength mode characteristics in single- and multi-mode waveguides and improve the signal-to-noise ratio (SNR) by complete elimination of artificial background, benefiting the high separability between the background and the near-field. This work demonstrated the use of the distinctive signature of short-wavelength modes in the Fourier domain for characterization of the system and improvement of the signal. Short-wavelength platforms are unique in having their natural modes well separated from the background in  $k$ -space, thus enable background removal that is not achievable in other waveguiding systems, such as the conventional metal-air interface. Hence, near-field background free mapping can be imaged simply by filtering out the background in the Fourier domain.*

**Keywords:** *signal-to-noise-ratio, short-wavelength, multi-mode waveguides, signal, Fourier domain*





## **How useful is the smartphone for the purpose of student learning in Albania?**

**Migena Musallari (Kazani)**

migena.musallari@luarasi-univ.edu.al, Luarasi University, Albania

### **Abstract**

*Smartphones usage by students has increased in the recent years, especially during pandemic covid-19 because all schools and universities in Albania were closed. But how useful is smartphone for learning purpose?*

*The aim of this study is to assess the usage of smartphones by Albanian students for their learning purposes and how the pandemic has affected their use. To respond these questions, a questionnaire was conducted to a group of 1500 random students at universities and high schools in Albania. This questionnaire was completed online by 385 students and then it was used to analyze.*

*Data were collected about students' smartphones, use of them for learning purposes, and students' attitude toward smartphones for learning purposes. Descriptive statistic were calculated and then there were used to give results. From the results it is noticed that most of the students use Samsung or iPhone and except learning they use their phones to take photos, videos and they were very active in social medias like Facebook, Instagram, WhatsApp etc. Majority of students use their phones to obtain different materials to study and to share notes with their friends. It was concluded that students prefer to access information from online resources (mostly from their mobiles) to library.*

**Keywords:** *Albania, smartphones, Covid-19, students, universities, Samsung, iPhone, Instagram, Facebook*



## Webometrics Analyses “Luarasi” University case study

1Florenc HIDRI MSc 2Gladiola Tigno MSc

<sup>1</sup>[Florenc.hidri@luarasi-univ.edu.al](mailto:Florenc.hidri@luarasi-univ.edu.al) Universiteti “Luarasi” Albania

<sup>2</sup>[Gladi.tigno@yahoo.it](mailto:Gladi.tigno@yahoo.it) Universiteti “A.xhuvani” Elbasan, Albania

### Abstract

*University websites offer website guests as well as prospective and current students, researchers, parents, alumni, and employers’ information about the university. It also is used as a marketing tool to attract more students. Nowadays higher education is getting more and more competitive. Webometrics is the only tool ranking website universities.*

*The purpose of this study is analyzing “Luarasi” University Website webometric ranking and suggesting improvements to get a better ranking. The study was motivated because of the actual ranking of the university website in webometrics. Even though “Luarasi” University is ranked among top Universities in Albania according to “Quality Assurance Agency in Higher Education” it is getting a low ranking in webometrics.*

*Results obtained from this research includes improvements of Luarasi University web presence, visibility, and web access. Results also revealed the need of the University Members to publish all their papers and researches in the university website. Make the appropriate changes in the website structure to meet all necessary requirements for a better ranking.*

**Keywords:** *Luarasi University, University Website, webometrics, Quality Assurance Agency in Higher Education, ranking*



4561-1-3

## **A comparative study of curriculum and assessment of Law, Finance, & ICT at Luarasi university vs three UK universities**

**Assoc. Prof. Dr. Nazmi Xhomara**

Lecturer, Department of Mathematics and Statistics, Faculty of Information Technology and Innovation, Luarasi University, Tirana, Albania.

[nazmi.xhomara@luarasi-univ.edu.al](mailto:nazmi.xhomara@luarasi-univ.edu.al)

**Dr. Nazyktere Hasani**

Lecturer, Department of Social Sciences, Faculty of Social Sciences, AAB College, Prishtina, Kosovo

[nazyktere.hasani@universitetiaab.com](mailto:nazyktere.hasani@universitetiaab.com)

**Dr. Mirela Karabina**

Lecturer, Department of Social Sciences, Faculty of Social Sciences Albanian University, Tirana, Albania

[mirelakarabina@yahoo.com](mailto:mirelakarabina@yahoo.com)

### **Abstract**

*The study aims to compare the curriculum of law, finance, and ICT at Luarasi university with three UK universities. A comparative quantitative research design was selected to be used in the study. The curriculum content and assessment variables were selected to be compared in the research. Descriptive statistics was the main analysis conducted in the research. The study revealed that there are about double mandatory subjects in law, accounting, and finance, as well as in information technology at Luarasi university compared to Bristol University, London School of Economics, and London South Bank University in the three years of study, It is found that there are not optional subjects in law, accounting and finance as well as in information technology programs at Luarasi university, meanwhile an important part of curriculum in Bristol University, London School of Economics, and in London South Bank University is optional. The study found that the assessment component of the law program at Luarasi university is the dominant oral exam; meanwhile, at Bristol university, there are written exams and coursework during the three years of study. It is revealed that the written exams, coursework, and class participation' assessment components are the same in accounting and finance as well as in the information technology program at Luarasi university compared to the London School of Economics and London South Bank University, but there are little differences about % taken.*



4561-1-3

**Keywords:** curriculum, assessment, law, accounting and finance, information technology, ICT.

## **To what extent high education influence Political Participation**

**Msc. Elma Radonicic**

[radonicicelma96@gmail.com](mailto:radonicicelma96@gmail.com)

### **Abstract**

*Education is knowledge gain. It has great importance because it develops the perspective of looking at life. It shapes our opinions, thus build our attitudes towards different things we are facing every day. Gaining new information of a surrounding world leads a person to take a particular action. We firmly believe that educated people know how much it is crucial to participate in politics. Politics is everywhere; it shapes our lives and opportunities and creates the atmosphere we are living in. Usually, people think their voice is not heard, their vote is meaningless and cannot change anything, and because of that, they do not even fulfil their civic duty and choose not to vote. H1: A higher level of education influences more participation in politics. In this paper, we also tested three other hypotheses with the control variables (GDP, Unemployment rate, and Literacy rate). When it comes to methodology, the study type of this research is small N, and it is X-centric research. The sample size is 27 members-states of the European Union + Great Britain (28 cases) for the selected period of 2014. The research is conducted in the statistical program RStudio. Through regression analysis, we explained whether there is a connection between independent and control variables with the dependent variable, which is, in this case, Political Participation. The concept that was analysed, since political participation covers more activities, the paper will have a focus on the first and primary activity, which is voting on elections. European Parliament Elections from 2014 are examined, and the voter turnout from 28 European Union member states (in that time) is used. The obtained results showed that only the independent variable, high education, is statistically significant, which tells us that there is a relationship between high education and political participation, and this relationship is negative. Three control variables, according to results, showed that there is not a connection between each of them with the dependent variable.*

**Keywords:** education, gross-domestic-product, unemployment, elections European Union, political participation



## **Model of Organization of Dual Education System- Examples of Study Design and Technology in Woodworking**

**Assistent, Emir Đulić**

University of Zenica  
[djulic.emir@gmail.com](mailto:djulic.emir@gmail.com)

**Prof. dr. Darko Petković**  
University of Zenica

### **Abstract**

*The development of new study programs as well as the re-engineering of existing ones is a complex and multidisciplinary process implemented by higher education organizations. New study programs should be an expression of real societal needs and should satisfy each of the three university missions. Unfortunately, current practice in Bosnia and Herzegovina and the countries of the region is often denied because the number of study departments far exceeds the opportunities of higher education (in human, financial, infrastructure and other key elements) and does not contribute to development in any segment. The paper discusses the issues of the dual system of study, which today is much discussed as the key to solutions to the accumulated problems of the unemployed, the greater efficiency of the economy and the improvement of the general ambience of the business of the BiH economy. A study program for Design and Technology in Woodcutting was presented, introduced this year and which is conceptualized on the basis of dual education.*

**Key words:** *dual education, vocational education, business, university, networking, synergy*



## **The significant role of E-learning on Students Performance**

**Msc Ernest Balili**

Faculty of Law, University Luarasi, Tirana, Albania.

[ernest.balili@luarasi-univ.edu.al](mailto:ernest.balili@luarasi-univ.edu.al)

### ***Abstract***

*The purpose of this research paper is to understand the role of E-learning on students' academic performance. To successfully conclude this paper, secondary research was conducted and critical analysis of the literature on E-learning was done to understand the relevance of e-learning on student academic performance. Results show, that even though E-learning is vital in enhancing student's academic performance, it is quite clear that due to different factors especially lack of technology and IT skills, blended learning was a more inclusive alternative in synergizing E-learning and face to face learning. Further, recommendations are provided based on the findings of e-learning literature on this paper.*

**Keywords:** *E-learning, students' performance, face to face learning, IT, blended learning*



## **Comparative study of curricula in different Albanian Universities (Business Informatics).**

**Prof. Dr. Engjëll Pere**

Faculty of Economics - Luarasi University, Albania

[engjell.pere@luarasi-univ.edu.al](mailto:engjell.pere@luarasi-univ.edu.al)

### ***Abstract***

*Curricula of a specific program in higher education institution, is a significant element which has an important impact on entire quality of this program of study. In other side, the same study courses, in different institution, have a different curriculum. In this point of view, a normally question for the students will be: for the same course, which institution offer the best curricula?*

*The aim of this work is namely to evaluate the quality of curriculum based on a specific approach: Design of Experiments (DOE), specifically Taguchi method. In the paper this approach is used to evaluate the impact of different subjects of curricula in the quality of education for the same study course, but in different Universities.*

*Practical construction of orthogonal Taguchi matrix is based in a questionnaire of 25 academics and 25 ex-students of Business Informatics program, which gave their evaluation for different subjects of curriculums, in relation with quality of education for this study program.*

***Keywords:*** Curricula, higher education, DOE, Taguchi, curricula, institution.



## **In search of optimal learning environment for generation Z students**

**Assoc. prof. Ljubica Kardaleska-Radojkova, PhD**

AUE FON University, Skopje, RN Macedonia

[ljubica.kardaleska@fon.edu.mk](mailto:ljubica.kardaleska@fon.edu.mk)

### **Abstract**

*University educators are in constant search of an intellectually powerful classroom and a learning environment that invigorates courses for both students and teachers. To that end, dispositions and needs of their students need to be analyzed through multiple perspectives.*

*Although born in the Information Age and comfortable with technology, current students still need guidance to sift, categorize and synthesize information, as well as avoid potential binge mentality. Educators' dilemmas revolve around these issues: learning strategies appropriate to motivate generation Z students, essential adjustments of educational techniques, learning to apply course materials, type of course assignments that improve critical thinking and problem solving (by fact finding and appropriate resources), more purposeful assignments that help students to make a difference in their communities and personal development. Based on the academic profile of generation Z, these dilemmas are incorporated in the empirical section of this paper - questionnaires for both educators and students.*

**Key words:** *generation Z profile, essential adjustments, educational techniques.*





## **Developing policies and building English language curricula in the Albanian education system as part of Albania's European Union integration**

**MSc. Klotilda MUÇA**

Faculty of Law, University of Tirana

[kgjorga@gmail.com](mailto:kgjorga@gmail.com)

### ***Abstract***

*This paper tends to look at the numerous policies made by the Albanian government to improve the curricula of English language, so that can lead to the increase of the proficiency in the Albanian education system, a necessary requirement of what is considered as the process of integration of our country into the European Union. More specifically, we need to analyze if changes of language policies curricula in schools, will provide learners with the necessary skills so they can easily deal in an international workplace and not only. In order to provide reliable data, quite a number of questionnaires has been developed and applied with university students and young professionals as they are expected to be the most affected about certain issues. The findings are expected to deepen the understanding of the effectiveness of changes in curricula and language policy while preparing individuals linguistically to face Albania's European Union integration.*

**Keywords:** *Language Policy, Curricula, European Integration, Albanian government.*



4561-1-3

## **Online Teaching Practices in Albania`s Universities during Covid-19**

Dr. Jonid Kazani

Luarasi University, Albania

[jonid\\_k@hotmail.com](mailto:jonid_k@hotmail.com),

Msc. Eng Albina Toçilla

Polis University, Albania

[albinatocilla12@gmail.com](mailto:albinatocilla12@gmail.com)

### **Abstract**

*The majority of educational institutions use only the traditional methods of learning, mentioning here the face-to-face lectures in a classroom. The situation caused by Covid-19 influenced also the education field and obliged teachers to change their teaching methods into online ones. From this point of view, there are many challenges related to online teaching and online learning on the other hand. The influence of technology on this process had remarkable effects. This study identifies the advantages and disadvantages of distance learning and also its challenges, in terms of technological impacts. A number of students from different Universities in Albania took part in the questionnaire and these results can help the universities to invest more in their infrastructure in order to offer students better conditions to attend online lessons.*

**Keywords:** *online teaching, online learning, teaching platforms, information technology, advantages, disadvantages.*



## **The ongoing progress within the field of higher education in Albania**

**Dr. Ermir I. Hajdini**

Lecturer, Wisdom University College

[ehajdini@gmail.com](mailto:ehajdini@gmail.com)

### ***Abstract***

*The ongoing progress within the field of higher education in Albania- the harsh debate on the High Education Law- the gradual re-shaping of the Higher Education Institutes (HEI) offer considering the job market needs- underlines the importance this sector has for the evolution of our society. It is indispensable the fact that higher education institutes have a crucial role vis a vis sustainable development. The initiatives undertaken shows the clear tendency of this, namely: Ministry of Education and Sports and the Institute of Developing Education (IDE) in cooperation with UNESCO and UNICEF has presented the objective Nr. 4 on sustainable development and Education 2030. This documents aims to promote and support the objectives for Sustainable Development of the Agenda 2030 for Sustainable Development, that is "warrants quality education and consolidate opportunities for life-long learning"*

*As such, sustainable development doesn't comprise only environment issues but also issues related to economy and socio- cultural issues as well. The pressure on our society from factors like: emigration, urbanization etc.- just remember our city ten years ago – makes it obvious that Higher Education Institutes have an important role to play on sustainable development.*

*Because the primary role of Higher Education Institutes is "producing knowledge", they can be a powerful tool for developing a critical thinking towards sustainable development.*

*Thus, the concept of "higher education for sustainable development" has become a crucial element in the education initiatives not only in the region but globally.*

*In a more academic level, the importance of this article sprigs from the fact that this kind of literature in our country is absent. In practical level, this article aims in constructing a positive model on link between Higher Education Institutes and sustainable development.*



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**Keywords:** *Higher Education Institute, sustainable development, education and development, Sustainable Development of the Agenda 2030*

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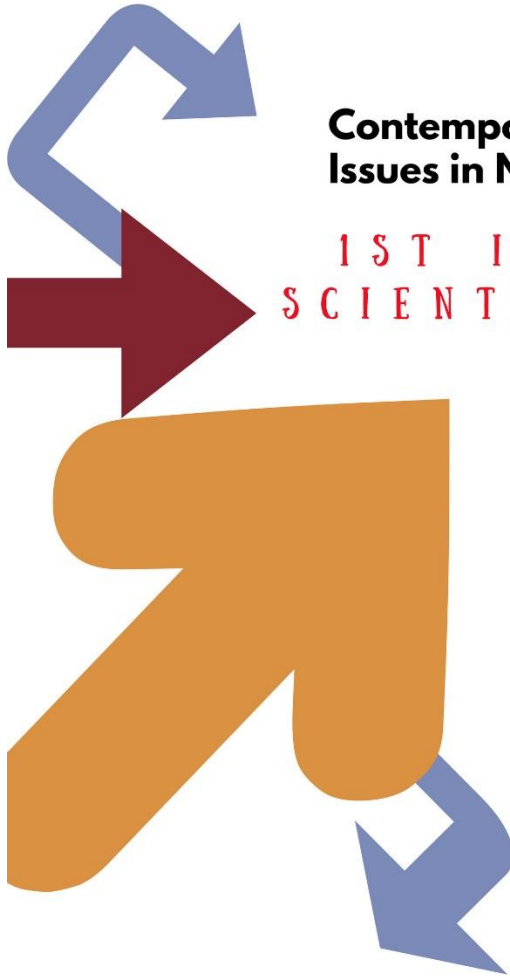
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## Contemporary Trends and Multidisciplinary Issues in Nowadays Society

### 1ST INTERNATIONAL SCIENTIFIC CONFERENCE

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property administration , local government, compliance audit process, public and state property, The institute of extradition, Albanians judicial system and international one., Domestic violence, policing paradigm of COVID-19 Pandemic , law enforcement challenges, Legal-criminal protection of signators , executive with the legislative , vocational education, judicial remedy , Divine Law ,

#### Session 2.1/Economics

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#### Session 3.1: ICT

Intelligent Farming , Global Climate changes, Fourier-enhanced Near-Field Microscopy, online shopping , Data Mining Techniques, Cloud Computing, smartphone for the purpose of student learning,Webometrics , Smart metering, knowledge management, bank branches in digital area

#### Session 4.1: Education

optimal learning environment , generation Z students, comparative study , Law, Finance, & ICT at Luarasi university vs three UK universities, high education , political participation, Developing policies , English language curricula, Albanian education system , Online Teaching Practices , progress within the field of higher education in Albania, economical informatics subjects, different universities, regression discontinuity in quasi experimental, dual education, vocational education

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