MANAGEMENT OF EMPLOYEES` STAFF MOTIVATION IN HIGHER EDUCATION INSTITUTIONS IN UKRAINE

^aOLHA SHULHA, ^bIURII GUDZ, ^cNATALIIA KOTVYTSKA, ^dNATALIIA KORETSKA, ^cOLEKSANDR NIKOLAIEVSKYI, ^fYANINA KOLODINSKA, ^gLEONID LYTVYNENKO, ^bANDRII VILIANSKYI

^{a-c,e-h}Private Higher Education Institution "European University", 16V, Vernadsky Blvd., Kyiv, Ukraine ^dLutsk National Technical University, 75, Lvivska Str., 43018, Lutsk, Ukraine

email: ^aolga.shulga@e-u.edu.ua, ^biurii.gudz@e-u.edu.ua, ^cnataliia.kotvytska@e-u.edu.ua, ^dnataliya.koretska@gmail.com, ^ealexander.nikolaievskyi@e-u.edu.ua,

 ${}^f\!y$ anina.kolodinska@e-u.edu.ua, ${}^g\!l.lytvynenko@gmail.com,\,\,^h\!a.viliansky@gmail.com$

Abstract: The article examines the specifics of managing the motivation of personnel of higher education institutions in Ukraine. The current problems of managing the motivation of employees in the field of higher education have been identified. Modern approaches to the motivation of employees in the field of higher education are considered. Peculiarities of the formation of motivation management models based on the differentiation of motivational components have been studied. The application of the model of personnel motivation management in higher education institutions is proposed. The relevance of the components of this model is substantiated and the specifics of their impact on the personnel motivation system are determined.

Keywords: staff motivation; motivation management; motivation system; higher education; staff motivation model.

1 Introduction

One of the key problems of the personnel management system of higher education in Ukraine is the permanent state of reform of this sphere, which has been going on for more than ten years. At the same time, changes in the legislation on higher education lead to significant changes both in the structure of higher education institutions and in general the modes of their functioning. All this leads to a constant change in approaches to the organization of the work of the staff of higher education institutions and requirements for key indicators of their work. On the other hand, it should be noted that these changes are due to the need to integrate the Ukrainian education system with European and other international educational programs. This need becomes especially relevant in the context of Ukraine's acquisition of the status of a candidate for joining the European Union.

However, at present, it is necessary to note that Ukraine is significantly behind the developed countries of Europe in the field of practical formation and theoretical strengthening of the state-public system of education management, decentralization of its governance, training of educational personnel based on the competence approach, etc. Most of the approaches to improving the motivation of employees of higher education institutions are currently non-systemic in nature, do not have a comprehensive approach to their application, and are limited in terms of scientific and theoretical reinforcement of such a motivation system. The general strategy for the development of higher education is characterized by an increase in information flows, and the volume of necessary documentation flows, with which employees of higher education institutions have to work. At the same time, there is no practice of reviewing approaches to determining the labour intensity of work and the need to change the structure and composition of higher education institutions. However, as the practice of developed countries shows, the effective functioning of higher education institutions is possible only on the basis of the application of effective principles of personnel management in education, which requires taking into account the specifics of higher education institutions, first of all, as social systems.

That is why the activity of higher education institutions in modern conditions requires active innovative behaviour of teaching staff, development of their professional and creative abilities, etc. After all, the innovative development of modern institutions of higher education is impossible without the formation of innovative thinking of employees and requires a qualitatively new approach to the formation of their motivational mechanism. In contrast to traditional approaches to the implementation of basic management functions, managers of modern higher education institutions should activate the innovative component in the professional activities of staff, provide conditions for the professional and creative development of employees, and generally focus on the application of progressive approaches to motivation.

2 Literature Review

Modern scientific research in the field of management defines the model of personnel motivation as a system of determinants, incentives, and motives that stimulates employees to their professional growth. Many scientific works are devoted to the study of this issue. In particular, the theoretical-methodological and methodological-applied aspects of improving the personnel motivation system are widely covered in the works of such scientists as O. Agres [1], M. Bezpartochnyi [4], I. Britchenko [7-15], S. Koshova [31-32], Y. Pozdnyakov [35], J. Reitšpís [38], O. Shubalyi [46], I. Yakoviyk [54], O. Yatsukh [57].

In addition, it should be noted that a number of researchers consider the motivation system based on its division into internal and external. At the same time, internal motivation determines the importance of the process of professional development, while external motivation is managed on the basis of material stimulation from the outside and is aimed at achieving a positive result. These approaches to the essential understanding of motivation are quite widely disclosed in the works of such researchers as O. Apostolyuk [2], O. Binert [5], Y. Chaliuk [16], Z. Kireieva [30], M. Kryshtanovych [33], O. Ramos [37], T. Shmatkovska [39-44], R. Sodoma [47-50], A. Zielińska [58].

In addition, it is necessary to note the research in the field of designing effective mechanisms of motivation for the development of personnel in institutions of higher education, which should be focused on the general increase in the competitiveness of employees of higher education. The main attention in these studies is paid to the organization of recruitment and improvement of personnel qualifications. In this aspect, it is worth highlighting the works of such scientists as I. Balaniuk [3], A. Boiar [6], M. Dziamulych [17-27], N. Hoy [29], Y. Polishchuk [34], L. Pukhovska [36], A. Shvorak [45], O. Stashchuk [51-53].

3 Materials and Methods

Studying the specifics of the motivation of employees of higher education institutions requires the use of specialized methods of assessing their work efficiency. In addition, it is necessary to take into account the specifics of the educational field when forming measures to encourage a person to take certain actions, stimulate readiness to carry out professional and personal growth and improve qualifications in general. Therefore, in the process of researching the peculiarities of the formation of personnel motivation systems in institutions of higher education, the methods of determining the problem of the development of the professional motivation of employees and the general improvement of the personnel motivation mechanism were applied. In particular, they include the following:

- Assessment of the relationship between the professional experience of employees and their motivation for further professional development and training;
- Determination of the differences between the selfassessment of the teacher's own level of motivation and the assessment of his motivation by the management;
- Research on the effectiveness of applied management strategy models for the development of teachers` motivation;

- Analysis of the relationship between various aspects of the teacher's motivation and his teaching quality;
- Determining the impact of teachers' motivation on the learning outcomes of higher education students;
- Determination of factors directly influencing teachers` motivation and their research efficiency;
- Determining the readiness of employees of higher education institutions to introduce a competency-based approach to evaluating the results of their work [28].

On the basis of the applied methods, conclusions were formed regarding the general improvement of the system of motivation of employees of higher education institutions in Ukraine.

4 Results and Discussion

Significant changes in the field of higher education in Ukraine have created an objective need for the development of appropriate personnel management concepts aimed at the overall improvement of its effectiveness. At the same time, it is necessary to note the importance of motivational aspects in personnel management of institutions of higher education, because they are its basis. In this aspect, it is also worth considering that the needs of a person in the labour market are constantly changing, therefore the personnel of a higher education institution, staffed with the appropriate number of employees, should be motivated to behave in accordance with the goals of the higher education institution and their own needs. With the development of personality, opportunities for improving the professional potential of employees also expand. Thus, the process of motivation through the satisfaction of common and personal needs is endless and important in the work of a person and requires the creation of material and spiritual prerequisites for its comprehensive and holistic development.

Taking into account Ukraine's acquisition of the status of a candidate country for membership in the European Union, in the system of higher education, the problem of activating the processes of personnel motivation is acute, since, according to analysts' conclusions, the level of professional training today requires constant improvement of their theoretical and practical skills in accordance with modern requirements. The practice of state regulation of the sphere of higher education and personnel development of European countries shows the expansion of the field of use of economic stimulants, which affect the dynamics of reproduction and accumulation of the country's labour potential, quality components of training, retraining, and upgrading of personnel. The expediency of their use, in particular, in the conditions of a severe deficit of budget funds in Ukraine, is due to the fact that they ensure the redistribution of sources of funding in the field of professional development of higher education workers between the government, higher education institutions, and the workers themselves while maintaining the parity of interests of all interested parties.

At the same time, it should be noted that studies of motivation theories show that the level of motivation of personnel depends on the perceptions of individuals in accordance with their abilities to perform work tasks and receive the desired reward. On the basis of these theories, managers of higher education institutions have the opportunity to build work so that it meets the needs of the employees who perform it. And accordingly, moving up the ladder of the hierarchy stimulated their most effective behaviour in the work process. Only knowing this, it is possible to develop an effective system of forms and methods of personnel management, ensuring the productive performance of functional duties, which are determined by the action of fundamentally diverse groups of factors regarding the behaviour of employees in the process of professional activity.

Thus, it can be argued that one of the central problems in reforming the modern system of higher education in Ukraine is the regulation of relations between people included in various links of this system. In modern conditions, effective management of a higher education institution is impossible without understanding the motives and needs of the institution's employees and their effective use in management interaction.

Therefore, the effectiveness of educational processes largely depends on the effectiveness of management activities, which are carried out on the basis of a motivational approach.

The practical problems of introducing a system of motivation for the development of the professional activity of pedagogical workers in institutions of higher education are regulated both by the legislation of Ukraine and by specially developed programs and measures. Taking into account the specifics of staff motivation developed, it is possible to propose a model of the staff development motivation system in higher education institutions (Figure 1).

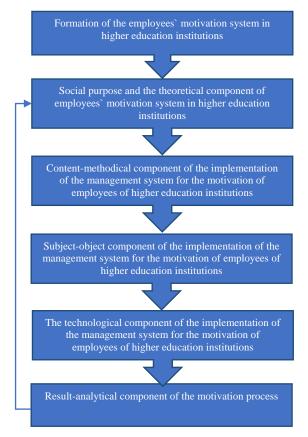


Figure 1. Model of the motivation system for the personnel of the higher education institution

Source: formed by the author based on [29].

This model of the structural components for the implementation

of the management system for motivation of the professional activity of higher education institutions employees is based on the universal management technology of modelling the scientific systems. Such a model is a dynamic and open system since the strategic goal of personnel management in an educational organization is the development of the motivation of the professional activity of pedagogical workers in order to achieve the goals of the higher education institution. The basis of this model is the need to coordinate the needs of teaching staff with the goals of higher education institutions. Conducting surveys of employees, and analyzing the information received regarding the understanding of the needs of teachers will give the management of a higher education institution the opportunity to clearly understand what motives will be decisive for meeting professional needs and what tools can be used to meet the needs of the development of employees. In addition, this model makes it possible to establish the sequence of stages of the implementation of the personnel motivation system, aimed at meeting employees' needs and effectively improving the system of motivation for the professional activity of employees of

higher education institutions [55].

It should also be noted that in practice, the motivational core in the system of higher education institutions is formed by motives related to the content of work and the specific climate of the educational institution. At the same time, the motives reflecting the content side of teaching work are purely internal for higher education. Therefore, the management of higher education institutions should concentrate their attention on the development and support of the organizational culture of the educational institution, and the formation of an effective personnel policy, which are real levers that increase the labour activity of the teacher.

In addition, it also should be emphasized that the management of the motivation of teaching staff also has a number of specific features. In particular, the creative nature of the work of employees of higher education institutions determines the diversity of their personally significant needs, and the lack of objective criteria for evaluating work results practically makes it impossible to reward precisely for effective work. All this is the main problem in the process of forming a system of motivation for employees of a higher education institution [56]. At the same time, there is a close connection between the effectiveness of the individual work of the staff of higher education institutions and the effectiveness of the educational process. In particular, the productivity of an individual employee is a necessary condition for the productivity of a higher education institution. Taking into account modern achievements in the creation and development of the theory of the target management mechanism for the final results of any economic entity allows for the organization of the appropriate and productive work of the personnel of educational institutions. The theoretical basis of such management may well well-known principles of effective management: purposefulness, feedback, and productively oriented motivation of employees based on the results of work.

It worth noting that in the process of forming a system of motivation for employees of higher education institutions, first of all, the needs of the employees themselves and the incentive that will encourage them to effectively perform their professional duties should be determined. It is possible to implement an organized system to obtain the required result only through a certain influence of the management of the institution of higher education. For this, it is necessary to have certain tools to influence the elements of the motivation system so that it starts functioning. Therefore, in order to effectively move towards the goal, the management of higher education institutions should not only plan and organize work but also apply a system of motivation to employees according to the developed plan to achieve the goals of the institution.

In general, in order to increase the motivation of the personnel of higher education institutions, it is necessary to develop and implement a set of nationwide socio-economic programs and measures that provide for the improvement of the social status of the pedagogical worker and the level of his salary, etc. Also, in our opinion, an important factor in the implementation of the model is the theoretical and methodological components of managing the formation of the motivation of professional activity as a basis for a comprehensive study of the motivation of employees of higher education institutions based on the experience of leading European countries.

An important tool for achieving the effectiveness of management of the motivation of employees of higher education institutions is also the management of the personal motivation of the professional activity of the head of such an institution since the development of the motivation of the professional activity of the manager is the criterion for the effectiveness of the management of his professional activity, which is realized in the following indicators:

- Understanding one's own motivation for the development of professional activity;
- Combination of external and internal motivation for professional activity;
- Development of all groups of motives for professional activity.

It should also be noted that financial gain is not among the leading motives for working in an educational institution. As a result of sociological surveys, it was found that with the deepening of the crisis of teachers' work motivation, there is a growing discrepancy between employees' ideas about what should be rewarded (specific achievements in scientific and pedagogical activity) and actual criteria (held position, length of service, past merits) [36].

Therefore, increasing the efficiency of the staff of a higher education institution is possible only at the expense of the maximum possible realization of the labour potential of its employees. In this case, it is necessary to take into account both objective characteristics - content, specificity, and working conditions, as well as characteristics of employees - values, attitudes, interests, needs, and motives. Work motivation cannot be effective without the use of modern forms and methods of non-material stimulation of personnel. Adaptation to work, interest in final results, and willingness to work with high returns, that is, the main manifestations of work behaviour, reflect a high level of work motivation.

Thus, personnel management, taking into account the motivation system, is a process of reproduction of professional reality, which enables managers to predict personnel actions and situations in a certain way, to give content and meaning to their own treatment of employees. In this aspect, it is important to assess the extent to which the employees of a higher education institution are integrated into the current system of its corporate values - to know the level of its sensitivity, flexibility, and readiness for changes in the value sphere of professional productive activity caused by external factors of the development of social relations.

5 Conclusion

Thus, it can be concluded that the implementation of a motivational approach in personnel management of higher education institutions is possible only by taking into account the needs of the individual, which are desires, striving for certain results, and the formation of work motives. At the same time, work motivation cannot be effective without a complex combination of material incentives and the use of non-material stimulation methods. In turn, this requires the development of a system of criteria and quality indicators for the implementation of a motivational approach in the personnel management of a higher education institution.

The organization of the process of managing the formation of motivation for the professional activity of employees of higher education institutions involves the creation of certain conditions that enable the effectiveness of the development process and the achievement of goals for teachers. Evaluation of results acts as a feedback mechanism with the active involvement and interaction of all specialists in teamwork to solve problems. In this aspect, it is recommended to implement the proposed model in the management process of a higher education institution, which makes it possible to thoroughly study the motivation of the professional activity of its employees in dynamics and to generally analyze the effectiveness of the management process. At the same time, the key elements of the structural components of this model are feedback, quality communication of the head of the higher education institution and the participants of the educational process at the appropriate stages of management of the motivation of professional activity, as well as the achievement of strategic goals of management in higher education institutions.

Literature:

- 1. Agres, O., Sadura, O., Shmatkovska, T., & Zelenko, S. (2020). Development and evaluation of efficiency of leasing activities in agricultural sector of Ukraine. *Scientific Papers: Series "Management, Economic Engineering in Agriculture and rural development"*, 20(3), 53-60.
- 2. Apostolyuk, O., Shmatkovska, T., Chykalo, I., & Husak, A. (2020). Assessment of the rural population economic activity in

- the system of united territorial communities development: a case study of Volyn Region, Ukraine. Scientific Papers: Series "Management, Economic Engineering in Agriculture and rural development", 20(3), 99-108.
- 3. Balaniuk, I., Kyrylenko, V., Chaliuk, Yu., Sheiko, Yu., Begun, S., & Diachenko, S. (2021). Cluster analysis of socioeconomic development of rural areas and peasant farms in the system of formation of rural territorial communities: a case study of Volyn region, Ukraine. Scientific Papers Series "Management, Economic Engineering in Agriculture and Rural Development", 21(3), 177-188.
- 4. Bezpartochnyi, M., Britchenko, I., & Lošonczi, P. (2022). Ensuring economic security of trade enterprises in the formation of pricing policy. *Financial and Credit Activity: Problems of Theory and Practice*, 2(43), 146-156.
- 5. Binert, O., Sodoma, R., Sadovska, I., Begun, S., Shmatkovska, T., & Balash, L. (2021). Mechanisms for improving economic relations in the milk subcomplex of the agricultural sector: a case study of Ukraine. Scientific Papers Series "Management, Economic Engineering in Agriculture and Rural Development", 21(2), 101-110.
- 6. Boiar, A. O., Shmatkovska, T. O., & Stashchuk, O. V. (2018). Towards the theory of supranational finance. *Cogent Business & Management*, 5(1).
- 7. Britchenko, I., & Bezpartochnyi, M. (2020). Optimization of commodity stocks the enterprise by means of HML-FMR clustering. *Financial and Credit Activity: Problems of Theory and Practice*, 3(34), 259-269.
- 8. Britchenko, I., Bohomolova, N., Pinchuk, S., & Kravchenko, O. (2018). Assessment of the determinants of the financial security of railways in Ukraine. *Financial and credit activity: Problems of Theory and Practice*, 4(27), 270-281.
- 9. Britchenko, I., & Cherniavska, T. (2017). Transport security as a factor of transport and communication system of Ukraine self-sustaining development. *Scientific Bulletin of Polissia*, 1(9), 16-24
- 10. Britchenko, I., Drotárová, J., Antonov, M.; Kholodna, J.; Polonska, O.; & Popova, Y. Environmental and economic security in the conditions of digitalization of the Ukraine's economy. *AD ALTA: Journal of interdisciplinary research*, 12(2), Special Issue XXIX, 118-122.
- 11. Britchenko, I., Drotárová, J., Yudenko, O., Holovina, L., Shmatkovska, T. (2022). Factors and conditions of the environmental and economic security formation in Ukraine. *AD ALTA: Journal of interdisciplinary research*, 12(2), Special Issue XXIX, 108-112.
- 12. Britchenko, I., Hladchenko, S., Viktorova, L., Pronoza, I., & Ulianova, K. (2022). Information as Element of Enforcing the States Information Security. *AD ALTA: Journal of Interdisciplinary Research*. 12(1), Special issue XXV, 110-114.
- 13. Britchenko, I., Kraus, N., & Kraus, K. (2019). University innovative hubs as points of growth of industrial parks of Ukraine. *Financial and Credit Activity: Problems of Theory and Practice*, 4(31). 448-456.
- 14. Britchenko, I., Smerichevskyi, S., & Kryvovyazyuk, I. (2018). Transformation of entrepreneurial leadership in the 21st century: prospects for the future. In Advances in Social Science, Education and Humanities Research. *Proceedings of the 2nd International Conference on Social, Economic and Academic Leadership (ICSEAL 2018)*, 217, 115-121.
- 15. Britchenko, I., Svydruk, I., Pidlypnyi, Y., & Krupskyi, O. P. (2020). Lessons to Be Learned from Ukraine's Positioning in International Rankings: The Need for Institutional Support and Financial Support for Economic Creativity. *Management Issues*, 18(4), 90.
- 16. Chaliuk, Y., Dovhanyk, N., Kurbala, N., Komarova, K., & Kovalchuk, N. (2021). The digital economy in a global environment. *AD ALTA: Journal of Interdisciplinary Research*, 11, Special issue XVII, 143-148.
- 17. Dziamulych, M., Hrytsenko, K., Krupka, I., Vyshyvana, B., Teslia, S., Tereshko, O., & Fadyeyeva, I. (2022). Features of banks` liquidity management in the context of the introduction of the LCR ratio in Ukraine. *AD ALTA: Journal of interdisciplinary research*, 12(1), Special Issue XXVII, 148-152. 18. Dziamulych M., Krupka, I., Andruschak, Y., Petyk, M., Paslavska, R., Grudzevych, Y., Martyniuk, R. (2022). Banking

- liquidity risk management in Ukraine based on the application of digital and information technologies. *AD ALTA: Journal of interdisciplinary research*, 12(2), Special Issue XXIX, 102-107.
- 19. Dziamulych, M., Kulinich, T., Shmatkovska, Y., Moskovchuk, A., Rogach, S., Prosovych, O., & Talakh, V. (2022). Forecasting of economic indicators of agricultural enterprises activity in the system of ensuring their management on the basis of sustainable development: a case study of Ukraine. Scientific Papers Series "Management, Economic Engineering in Agriculture and Rural Development", 22(1), 207-216.
- 20. Dziamulych, M., Moskovchuk, A., Vavdiiuk, N., Kovalchuk, N., Kulynych, M., & Naumenko, N. (2021). Analysis and economic and mathematical modeling in the process of forecasting the financial capacity of milk processing enterprises of the agro-industrial sector: a case study of Volyn region, Ukraine. Scientific Papers Series "Management, Economic Engineering in Agriculture and Rural Development", 21(1), 259-272.
- 21. Dziamulych, M., Myskovets, I., Zubko, A., Tereshchuk, O., Baidala, V., Voichuk, M. (2022). Formation of the natural resource economics in the system of environmental and economic security. *AD ALTA: Journal of interdisciplinary research*, 12(2), Special Issue XXX, 142-146.
- 22. Dziamulych, M., Petrukha, S., Yakubiv, V., Zhuk, O., Maiboroda, O., Tesliuk, S., & Kolosok, A. (2021). Analysis of the socio-demographic state of rural areas in the system of their sustainable development: a case study of Ukraine. Scientific Papers Series "Management, Economic Engineering in Agriculture and Rural Development", 21(4), 223-234.
- 23. Dziamulych, M., Sadovska, I., Shmatkovska, T., Nahirska, K., Nuzhna, O., & Gavryliuk, O. (2020). The study of the relationship between rural population spending on peasant households with the main socioeconomic indicators: a case study of Volyn region, Ukraine. Scientific Papers: Series "Management, Economic Engineering in Agriculture and rural development", 20(2), 217-222.
- 24. Dziamulych, M., Shmatkovska, T., Gordiichuk, A., Kupyra, M., & Korobchuk, T. (2020). Estimating peasant farms income and the standard of living of a rural population based on multi-factorial econometric modeling: a case study of Ukraine. Scientific Papers: Series "Management, Economic Engineering in Agriculture and rural development", 20(1), 199-206.
- 25. Dziamulych, M., Shmatkovska, T., Petrukha, S., Zatsepina, N. Rogach, S., & Petrukha, N. (2021). Rural agritourism in the system of rural development: a case study of Ukraine. Scientific Papers Series "Management, Economic Engineering in Agriculture and Rural Development". 21(3), 333.343
- 26. Dziamulych, M., Stashchuk, O., Korobchuk, T., Mostovenko, N., Martyniuk, R., Strelkova, I., & Grebeniuk, N. (2021). Banking innovations and their influence on the formation of digital banking. *AD ALTA: Journal of Interdisciplinary Research*, 11(2), Special issue XXI, 108-112.
- 27. Dziamulych, M., Yakubiv, V., Shubala, I., Filiuk, D., & Korobchuk, L. (2020). Analysis and evaluation of the rural labour market and employment of the rural population: a case study of Volyn region, Ukraine. Scientific Papers Series "Management, Economic Engineering in Agriculture and Rural Development", 20(4), 165-174.
- 28. Fedorova, O., Shumskyi, O., Golikova, O., Kutsenko, I., Serdiuk, N., & Zahorodna, O. (2022). Microlearning in Forming the Students' English Competencies with VR Involvement. BRAIN. Broad Research in Artificial Intelligence and Neuroscience, 13(1Sup1), 388-402.
- 29. Hoy, N., Zhuk, O., & Basarb, V. (2021). Management model of the personnel motivation system in educational institutions. *Educational Horizons*, 53(2), 56-61.
- 30. Kireieva, Z., Sardaryan, K., Voytsekhovska, Y., Britchenko, I., Samoilenko, V., & Popova, Y. (2022). Problems of gender parity in the state administration system: conceptual and empirical aspects. *IJCSNS International Journal of Computer Science and Network Security*, 22(2), 369-375.
- 31. Koshova, S., Britchenko, I., & Bezpartochnyi, M. (2022). Investment in the space industry: a comparative analysis of Ukraine and the EU. *Baltic Journal of Economic Studies*, 8(3), 2256-0742.

- 32. Koshova, S., Britchenko, I., & Bezpartochnyi, M. (2022). The essence of financing the space in in the post-war period as an integral part of the country's reconstruction plan. *Financial and Credit Activity: Problems of Theory and Practice*, 4(45), 405-415
- 33. Kryshtanovych, M., Britchenko, I., Lošonczi, P., Baranovska, T., & Lukashevska, U. (2022). State Management Mechanisms for the Exchange of Information Regarding Cyberattacks, Cyber Incidents and Information Security Incidents. *IJCSNS International Journal of Computer Science and Network Security*, 22(4), 33-38.
- 34. Polishchuk, Y., Kornyliuk, A., & Britchenko, I. (2019). University as a core of e-learning ecosystem. *14th Conference on E-Learning Unlocking the Gate to Education around the Globe*, 309-319.
- 35. Pozdnyakov, Y., Britchenko, I., Hryniv, N., & Nakonechna, T. (2022). Economic Measurements Methodology of Property Rights To Unbuilt Residential Real Estate Objects Market Value. Financial and Credit Activity: Problems of Theory and Practice, 4(45), 133-152.
- 36. Pukhovska, L. P. (2015). Professional development of personnel of enterprises in the countries of the European Union. Kyiv.
- 37. Ramos O. R., Myronenko, Y., Britchenko, I., Zhuk, O., & Patlachuk, V. (2022). Economic security as an element of corporate management. *Financial and Credit Activity: Problems of Theory and Practice*, 1(42), 304-312.
- 38. Reitšpís, J., Mašľan, M., & Britchenko, I. (2021). Selection and application of appropriate analytical methods needed to assess the risks reducing the security of the protected system. *Baltic Journal of Economic Studies*, 7(3), 1-8.
- 39. Shmatkovska, T., Britchenko, I., Voitovych, I., Lošonczi, P., Lorvi, I., Kulyk, I., & Begun, S. (2022). Features of banks` liquidity management in the context of the introduction of the LCR ratio in Ukraine. *AD ALTA: Journal of interdisciplinary research*, 12(1), Special Issue XXVII, 153-156.
- 40. Shmatkovska, T., Dziamulych, M., Gordiichuk, A., Mostovenko, N., Chyzh, N., & Korobchuk, T. (2020). Trends in human capital formation and evaluation of the interconnection of socio-demographic processes in rural area: a case study of Volyn region, Ukraine. Scientific Papers: Series "Management, Economic Engineering in Agriculture and rural development", 20(2), 437-444.
- 41. Shmatkovska, T., Dziamulych, M., Yakubiv, V., Myshko, O., Stryzheus, L., & Yakubiv, R. (2020). Economic efficiency of land use by agricultural producers in the system of their non–current assets analysis: a case study of the agricultural sector of Ukraine. Scientific Papers: Series "Management, Economic Engineering in Agriculture and rural development", 20(3), 543-554.
- 42. Shmatkovska, T., Kulinich, T., Dziamulych, M., Rogach, S., Bilochenko, A., Serdiukova, O. (2022). Analysis of investment efficiency in the agricultural sector of Ukraine on the basis of sustainable development. Scientific Papers Series "Management, Economic Engineering in Agriculture and Rural Development", 22(3), 649-657.
- 43. Shmatkovska, T., Nikolaeva, A., Zabedyuk, M., Sheiko, Yu., & Grudzevych, Yu. (2020). Increasing the efficiency of the labour resources usage of agrosector enterprises in the system of sustainable development of the rural territories: a case study of Ukraine. Scientific Papers Series "Management, Economic Engineering in Agriculture and Rural Development, 20(4), 467-476.
- 44. Shmatkovska, T., Volynets, L., Dielini, M., Magopets, O., Kopchykova, I., Kytaichuk, T., Popova, Yu. (2022). Strategic management of the enterprise using the system of strategic management accounting in conditions of sustainable development. *AD ALTA: Journal of interdisciplinary research*, 12(2), Special Issue XXIX, 123-128.
- 45. Shvorak, A., Filiuk, D., Koretska, N., Vahnovska, N., Brodska, I., & Tendyuk, A. (2020). The problems of implementation and regulation of land market in the agricultural sector of Ukraine. Scientific Papers Series "Management, Economic Engineering in Agriculture and Rural Development", 20(2), 445-451.

- 46. Shubalyi, O., Rud, N., Shubala, I., Gordiichuk, A., Potomkina, O., Kosinskyi. P. (2021). Assessment of economic activity of the rural population by age and gender groups: a case study of Ukraine. Scientific Papers Series "Management, Economic Engineering in Agriculture and Rural Development", 21(2), 555-568.
- 47. Sodoma, R., Brukh, O., Shmatkovska, T., Vavdiiuk, N., Bilochenko, A., Kupyra, M. & Berezhnytska, G. (2021). Financing of the agro-industrial complex in the context of the implementation of international experience. *Financial and credit activity: problems of theory and practice*, 38(3), 341-350.
- 48. Sodoma, R., Cherevko, H., Krupiak, I., Andrusiak, H., Brodska, I., & Shmatkovska, T. (2021). Regulation of the lending market and prospects of financial sector stabilization in Ukraine. *Financial and credit activity-problems of theory and practice*, 36(1), 4-13.
- 49. Sodoma, R., Shmatkovska, T., Dziamulych, M., Vavdiiuk, N., Kutsai, N., & Polishchuk, V. (2021). Economic efficiency of the land resource management and agricultural land-use by agricultural producers. *Management Theory and Studies for Rural Business and Infrastructure Development*, 43(4), 524-535.
- 50. Sodoma, R., Shmatkovska, T., Dziamulych, M., Vavdiiuk, N., Kutsai, N., & Polishchuk, V. (2021). Economic efficiency of the land resource management by agricultural producers in the system of their non–current assets analysis: a case study of the agricultural sector. Scientific Papers Series "Management, Economic Engineering in Agriculture and Rural Development", 21(2), 577-588.
- 51. Stashchuk, O., Boiar, A., Shmatkovska, T., Dziamulych, M., Skoruk, O., Tesliuk, S., & Zintso, Yu. (2021). Analysis of fiscal efficiency of taxation in the system of filling budget funds in Ukraine. *AD ALTA: Journal of interdisciplinary research*, 11(1), Special Issue XVII, 47-51.
- 52. Stashchuk, O., Shmatkovska, T., Dziamulych, M., Kovalska, L., Talakh, T., & Havryliuk, O. (2021). Integrated assessment, analysis and management of financial security and stability of joint-stock companies operating in the agricultural sector: a case study of Ukraine. Scientific Papers Series "Management, Economic Engineering in Agriculture and Rural Development", 21(2), 589-602.
- 53. Stashchuk, O., Shmatkovska, T., Dziamulych, M., Kupyra, M., Vahnovska, N., & Kosinskyi, P. (2021). Model for efficiency evaluation of financial security management of joint stock companies operating in the agricultural sector: a case study of Ukraine. Scientific Papers Series "Management, Economic Engineering in Agriculture and Rural Development", 21(1), 715-728
- 54. Yakoviyk, I., Chyzhov, D., Karpachova, N., Hlushchenko, S., & Chaliuk, Yu. (2020). National security policy in Ukraine: a change in the system of power relations of the modern world. *Revista San Gregorio*, 42, 224-235.
- 55. Yanyshyn, Ya., Sodoma, R., Markiv, G., Lipych, L., Shmatkovska, T., & Shidnytzka, G. (2020). Economic efficiency of the nuts complex business in the agriculture of Ukraine. Scientific Papers Series "Management, Economic Engineering in Agriculture and Rural Development", 20(2), 531-536.
- 56. Yaroshenko, O., Kokorina, L., Shymanovych, I., Naumovska, N., Shchaslyva, N., & Serdiuk, N. (2022). The Modern Principles of Gamification in the Teaching of English as a Foreign Language. *Revista Romaneasca pentru Educatie Multidimensionala*, 14(1Sup1), 437-452.
- 57. Yatsukh, O., Demchenko, I., Ilnytskyy, D., Tsap, V., & Shmatkovska, T. (2021). Management of banking innovations in the conditions of digitalization. *AD ALTA: Journal of Interdisciplinary Research*, 11, Special issue XVII, 123-127.
- 58. Zielińska, A., Britchenko, I., & Jarosz, P. (2018). Leading innovations and investments into the new energy technologies. In Advances in Social Science, Education and Humanities Research. *Proceedings of the 2nd International Conference on Social, Economic and Academic Leadership (ICSEAL 2018)*, 217, 320-324.

Primary Paper Section: A

Secondary Paper Section: AE, AH