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Innovative Trends in the Formation of the Content of Master's Training in Speciality 029 "Information, Library and Archival Affairs"

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Abstract. The relevance of the study is due to the need of modernisation of the information sphere of activity in accordance with European standards and the proper level of training of specialists in this field for further professional development. The aim of the work is to create an innovative model of the content of the training of masters majoring in 029 "Information, Library and Archival Affairs" based on a comparison of the current state of the Ukrainian, American, and European educational systems. To achieve this goal, the author used the following general scientific research methods during three stages of scientific research: structural and comparative analysis, synthesis, generalisation, and systematisation, as well as modelling. The theoretical basis in the form of scientific and journalistic literature on the training of Master's in library and archival affairs in Ukraine and abroad has been developed. The experience of Ukrainian higher educational institutions, American and European institutions of higher education is compared in order to identify the focus of training specialists in speciality 029 "Information, Library and Archival Affairs". The theoretical orientation of the Ukrainian educational system for the formation of masters of this speciality and at the same time the practical orientation of universities in the USA, France, Australia, Spain and Sweden are determined. An innovative structural and functional model of forming the content of training masters of information and library science based on comparative analysis and theoretical and practical components is developed. The practical value of scientific work lies in the creation of the author's model of promising functional training of masters of speciality 029 "Information, Library and Archival Affairs" in accordance with the requirements of modernity, with its subsequent possible implementation in the activities of higher educational institutions

Keywords: digital competence, educational and training program, higher education applicant, structural and functional model, professional development

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INTRODUCTION

Modern processes of digitalisation are qualitatively changing the format of the information space, which makes it necessary to update the methods of training qualified specialists. In this context, in particular, this is in reference to future masters of the speciality "Information, Library and Archival Affairs", whose activities are aimed at searching, processing, storing and reproducing information. The issue of training library and archival specialists in the Ukrainian educational space is under the influence of powerful cultural stereotyping, which significantly slows down European integration development, but actualises the search for innovative methods for improving the curriculum. Thus, in her research, A. Solianyk noted the establishment of

a correspondence between the training of masters of speciality 029 "Information, Library and Archival Affairs" and Dublin descriptors, which indicate the importance of active application of knowledge in practice rather than the mere acquisition of knowledge [1]. Thus, the author claims the possibility of modernising the master's programmes of future specialists in library and archival affairs. T. Novalska and V. Kasian offer to diversify the traditional methods of training masters majoring in "Information, Library and Archival Affairs" by developing an innovative Internet marketer programme [2]. The new educational specialisation will not only meet modern technological conditions for information dissemination, but also meet the needs of the labour market.

It is advisable to pay special attention to the state of training of masters of the speciality "Information, Library and Archival Affairs" within the world educational space. Thus, in their works, M. Maceli describes the American experience of combining digital technologies and training masters in library and archival Affairs [3]. The author claims that physical calculations and solving problem aspects outside of Makerspace alone will form a competent specialist in accordance with modern requirements. Indian scientists S. Nath and R. Chutia conducted empirical studies of the quality of training and success of masters of the speciality "Information, Library and Archival Affairs" based on cultural intelligence and demographic indicators, such as gender, work experience, and place of residence [4]. Scientists have shown that various correlations between the components of cultural intelligence and individual demographic indicators can positively influence the success of master's training. At the same time, M. Hudon studied the effectiveness of training library and archival specialists based on the analysis of individual disciplines of the educational programme [5]. According to the researcher, in some educational institutions in Canada, the academic discipline "organisation of knowledge", aimed at familiarising with the principles of systematisation, cataloguing and classification, has lost its relevance due to the development of the latest technologies, which indicates intentions to improve the quality of master's training in accordance with the conditions of today. Thus, it is seen that the world methods of training masters of the specialty "Information, Library and Archival Affairs" are significantly distinguished by progressiveness and modernisation processes, which determines the relevance of the study of world experience and its extrapolation to the Ukrainian educational space. Therefore, the purpose of the study there is a formation of an innovative structural and functional model of the content of training masters in the speciality 029 "Information, Library and Archival Affairs" based on positive world experience. To achieve this goal, the author identified the following tasks:

1. Consider the state and features of training library and archival specialists in Ukrainian higher educational institutions;
2. Analyse the world educational curriculums of the speciality "Information, Library and Archival Affairs" and the best practices of authors to determine the specifics of training specialists of this specialisation abroad;
3. To form an innovative structural and functional model for the training information, library and archival specialists on the basis of the developed theoretical material.

MATERIALS AND METHODS

The study of innovative trends in the formation of the content of training masters of speciality 029 "Information, Library and Archival Affairs" took place in three stages. The first stage provided for the analysis of the current state of professional training of information and archival specialists based on the development of educational plans and

programmes. The second stage included a review of scientific and methodological literature and official websites of world higher educational institutions, in particular the USA, France, Australia, Sweden and Spain, on the training of specialists in the speciality "Information, Library and Archival Affairs". The third stage of scientific research was aimed at creating an innovative structural and functional model for forming the content of training future masters in this speciality. In the course of the study, the authors relied on a number of general scientific research methods, in particular structural and comparative analysis, synthesis, systematisation, generalisation and modelling. Thus, the method of structural analysis was used to study the scientific and methodological literature of Ukrainian and world authors on the training of library and archival specialists in the context of the global educational space. The method of comparative analysis provided for comparing the functioning, in particular, master's training of specialists in speciality 029 "Information, Library and Archival Affairs" of Ukrainian higher educational institutions, including Odesa National Polytechnic University, Borys Hrinchenko Kyiv University and the Ukrainian Academy of Printing and world higher education institutions on the example of American and European universities.

The synthesis method was aimed at studying individual aspects of training masters of this speciality in the aggregate and in accordance with the programme points of the educational system. The generalisation method was used to determine the general level of professional training of masters of the speciality "Information, Library and Archival Affairs" and search for possible ways to improve it. The method of systematisation was used to reproduce the scheme of educational elements of the educational programme of master's training on the example of the activities of the University of Franche-Comté and reflect the innovative model of the content of educational programmes for training applicants of the second level of higher education in the speciality 029 "Information, Library and Archival Affairs". The modelling method helped to recreate the components of the combined modernised content of training masters of this speciality. Scientific research of the chosen topic was carried out on the basis of a structural and functional approach, due to which a structural and functional model of forming the content of training masters of information and library science was identified, consisting of theoretical and practical components, which, in turn, contain narrowly directed blocks of academic disciplines. The theoretical basis of the study were the works of leading Ukrainian and world scientists in the field of library science and archival science, as well as educational programmes and information content of official websites of universities in the United States, Spain, France, Sweden and Australia. At the same time, legislative and normative acts of Ukraine were used, in particular the Order of the Ministry of Education and Science of Ukraine "On Approval of the Standard of Higher Education in speciality 029 "Information, Library and Archival Affairs"

for the second (master's) level of higher education" [6], which regulates the semantic load of educational programmes for training masters of library and archival affairs within the Ukrainian higher education system.

RESULTS AND DISCUSSION

Today, the training of masters of speciality 029 "Information, Library and Archival Affairs" in Ukrainian higher educational institutions is based on the Order of the Ministry of Education and Science of Ukraine "On Approval of Higher Education Standards of Speciality 029 "Information, Library and Archival Affairs" for the second (master's) level of higher education" [6]. The specified legislative and regulatory document defines the content of educational programmes and the competence component of future specialists in Information, Library and Archival Affairs. Thus, according to the standard, the training of masters of the chosen speciality is aimed at familiarising themselves with the institutional system and infrastructure of information support, the formation of practical skills in solving challenging situations and problems within the professional sphere using the methods of information and project management, as well as innovation management [6]. At the same time, after completing the educational programme, a higher education applicant is expected to have abstract and creative thinking, the ability to use technological services and computer innovations, and organisational and work management skills. This standard of higher education establishes the general principles of master's degree training, according to which it is important to consider individual training programmes on the example of such higher educational institutions as Odesa National Polytechnic University, Ukrainian Academy of Printing and Borys Hrinchenko Kyiv University. The experience of professional training of masters majoring in 029 "Information, Library and Archival Affairs" at Odesa National Polytechnic University should be described by such key concepts as information activities, information management and information resources [7]. Despite this, the higher educational institution is distinguished by its focus on theoretical training of specialists in information, library and archival affairs. Thus, applicants for higher education are tasked with mastering document and information resources, information management, international information management and information support.

A similar subject orientation is found in the educational programmes of the Borys Hrinchenko Kyiv University [8]. The speciality "Information, Library and Archival Affairs" involves students mastering the skills of using information and information technologies, teamwork and interpersonal interaction skills, as well as purposeful effective search, processing and storage of information. University education in the chosen speciality is mastered by students both through lectures and seminars, as well as through the performance of creative and individual work. Especially among the Ukrainian educational space stands out the Ukrainian Academy of Printing, which is most characterised by European interdisciplinary

integration. Training of masters of speciality 029 "Information, Library and Archival Affairs" at the university takes place in accordance with modernised standards [9]. Thus, future specialists of the chosen speciality master the basics of computer science and library science. Thus, the training of masters is aimed at having the appropriate theoretical and practical bases for electronic document management, e-commerce, telecommunications, information wars, information service and public information policy [9]. The future professional activity of graduates of this institution in specialty 029 goes beyond the narrow focus on employment in libraries, archives, etc. and provides for further career development at the state and global levels. As can be seen, the methods of training masters of speciality 029 "Information, Library and Archival Affairs" in Ukrainian higher educational institutions have both common and distinctive features, but in this context, it is especially advisable to pay attention to the experience of world higher educational institutions, among which should be highlighted universities in Australia, France, Sweden, Spain and the USA.

The first step is to start with the experience of training information and library study specialists at the Charles Sturt University of Australia [10]. A special feature of the master's degree programme is the combination of teaching activities and librarianship in an online training format. In this way, students of higher education are provided with an opportunity to study and work in the speciality at the same time. At the same time, after graduating from the educational institution, students of information and library science are offered a choice of either passing a two-week professional employment, or a four-day visit to agencies with the possibility of their own choice of work. This work-oriented approach can be traced throughout the entire process of obtaining education. Thus, studying four subjects per session is equivalent to a full-time working day, since a student must spend from 10 to 12 hours per week on one subject [10]. It is worth adding that similar freedom of choice and focus on employment for students of the speciality "Information, Library and Archival Affairs" is offered by the American University of California in San Jose [11]. For example, an institution of higher education provides master's students with an innovative internship programme in Silicon Valley companies. At the same time, students are left to choose the time limits of training, since the content of courses is submitted asynchronously with free access [11]. The ethical and legal orientation of training masters of the speciality "Information, Library and Archival Affairs" can be traced at the Spanish university. The Complutense University of Madrid offers masters of their chosen specialty to study public law, digital rights and licenses, information ethics and the cultural and historical aspect of the formation of the information sphere [12]. In this way, the higher education institution prepares professionals to deal practically with the problems of copyright and information wars in the context of the digital society. At the same time, it is advisable to consider the European experience of training masters in "Information,

Library and Archival Affairs” on the example of French and Swedish universities. Thus, the speciality “Information, Library and Archival Affairs” of the University of Franche-Comté

in France is focused on interaction with rare books [13]. The educational component of students of this institution provides for the following elements indicated in Figure 1.

Figure 1. Scheme of educational elements of the master's degree programme at the University of Franche-Comté

A similar method of training specialists in Library and Information Science is found at the University of Borås in Sweden [14]. The focus of this educational programme is determined by the need to create digital libraries, conduct digital library management and search skills in the digital space. Training in the speciality “Library and Information Science” takes place in an online format, which teaches students to continue working in the field of electronic publishing [14]. Finally, one way or another, the correlation analysis of Ukrainian and international methods of training masters in “Information, Library and Archival Affairs” allowed to confirm significant differences between practices and levels of effectiveness of preparing students for further professional activities within the chosen speciality. It is also worth adding that such comparative studies remain relevant among many scientists. For example, D. Kacunguzi compared master's degree programmes in Information and Library Science in the United States and Uganda [15]. The author focused special attention on the prospects for improving educational programmes in order to further possible employment in a changing market. Scientists C. Chu and F. Oguz established correlative relationships between educational methods of training masters of the speciality “Information, Library and Archival Affairs” in the USA and Canada [16]. The researchers conducted an empirical study to identify the advantages and disadvantages of the selected programmes depending on demographic variables, as well as to find the appropriate

effective teaching format. At the same time, the international collaboration described in the work of E. Corradini became interesting for scientific research [17]. The author analyses the master's programme for the speciality “Information, Library and Archival Affairs”, created by four higher educational institutions of the European Union, for the purpose of teaching at universities of the former USSR and Central Asian countries. Thus, the researcher described an example of extrapolation of the European experience of professional training in countries of a stereotyped type of training. For their part, scientists M. Koelen and J. Quaye-Ballard considered a separate aspect of the curriculum of the speciality “Information, Library and Archival Affairs”, in particular the importance of using digital libraries on the example of the universities of Ghana and the Netherlands [18]. With their best practices, the authors sought to show the need for cooperation between developed and less technically developed countries, which can significantly facilitate the educational process at the universities of the latter. Thus, based on the analysis of the current state of the Ukrainian system of training masters of speciality 029 “Information, Library and Archival Affairs” and the features of training specialists of the chosen field abroad, as well as a review of related comparative studies of world scientists, an innovative structural and functional model of forming the content of training masters of speciality 029 “Information, Library and Archival Affairs”, consisting of two components (Fig. 2).

Figure 2. Innovative structural and functional model of forming the content of training masters of speciality 029 “Information, Library and Archival Affairs”

As can be seen from Figure 2, the innovative structural and functional model of forming the content of training masters of speciality 029 "Information, Library and Archival Affairs" provides for two components, theoretical and practical in particular, each of which is focused on studying and mastering the relevant disciplines. Thus, the block "General Theory" of the theoretical component provides knowledge in such disciplines as "Innovative Management in Professional Information Activities", "International Information", "Information and Documentation Support of the Industry", "Information Business Analytics". The block "Specialised Theory" provides for the study of "Information Ethics", "Legal Basis of Information Activity", "Digital Law and Licenses", as well as "Information and Psychological Security". The block "Information Technologies" of the practical component is aimed at developing skills in digitising archival material, creating 3D animations, and digital library management. Thus, the innovative model will meet the needs and requirements of the modern information space and prepare the future master of the speciality "Information, Library and Archival Affairs" for the challenges of professional activity.

A proper combination of theoretical and practical courses will teach students how to use their knowledge fluently and navigate the digital world. The experience of world universities shows that the activities of specialists in "Information, Library and Archival Affairs" go beyond work in libraries or archives [19]. At the same time, even library and archival work involves updating practical skills, as evidenced by the actualisation of the phenomenon of digital libraries and archives. Thus, the research made it possible to form innovative methods of training future masters of speciality 029 "Information, Library and Archival Affairs" of Ukrainian higher educational institutions in accordance with the issues of the current state of educational programmes based on positive world teaching experience. Such a practical approach, focused on the formation of digital and information competencies, will help solve not only the problems of employment of qualified specialists of this speciality, but also cultural state problems related to the need to digitise rare sources, restore cultural written monuments [20]. However, it is worth noting that such a method of training specialists requires special technical support and equipment, which lengthens the period of its implementation and experimental testing directly in practice.

CONCLUSIONS

Thus, the study described the main innovative trends in the formation of the content of training for master's degree specialisation 029 "Information, Library and Archive Affairs". The authors analysed a number of scientific works of world and Ukrainian researchers in order to identify the current state of educational programmes for training information and library specialists. To conduct a comparative analysis of the teaching methods of future masters of speciality 029 "Information, Library and Archival Affairs", three higher educational institutions of Ukraine were selected, in particular Odesa National Polytechnic University, Borys Grinchenko Kyiv University and the Ukrainian Academy of Printing, and 5 world higher educational institutions in the USA, Spain, France, Australia and Sweden respectively. It is found that the Ukrainian educational system of training information and library specialists is aimed at mastering the theoretical foundations of students and is based on outdated stereotyped principles, while the professional training of students of this specialty of world educational institutions is determined by modernising digital processes and is focused on the practical application of the acquired knowledge. The necessity of introducing innovative models for training future masters of speciality 029 "Information, Library and Archival Affairs" within the framework of the functioning of Ukrainian universities is confirmed.

On the basis of the developed theoretical material, an innovative structural and functional model of forming the content of training masters of this specialty is formed, which includes theoretical and practical components. The key blocks of structural and functional model components are described, including general theory, specialised theory, and information technology. The features of implementing each individual component of the structural and functional model of forming the content of training masters of speciality 029 "Information, Library and Archival Affairs" based on the list of key academic disciplines are determined. It is concluded that the practical use of the author's model will provide solutions to professional and cultural issues. Prospects for further research are seen in the practical application of the author's innovative structural and functional model of forming the content of training specialists in information and library science, as well as experimental research of its effectiveness.

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ІННОВАЦІЙНІ ТЕНДЕНЦІЇ ФОРМУВАННЯ ЗМІСТУ ПІДГОТОВКИ МАГІСТРІВ СПЕЦІАЛЬНОСТІ 029 «ІНФОРМАЦІЙНА, БІБЛІОТЕЧНА ТА АРХІВНА СПРАВА»

Анотація. Актуальність дослідження зумовлена потребою в модернізації інформаційної сфери діяльності відповідно до європейських стандартів та належному рівні підготовки фахівців вказаного напрямку для подальшого професійного становлення. Метою роботи є створення інноваційної моделі змістового наповнення підготовки магістрів спеціальності 029 «Інформаційна, бібліотечна та архівна справа» на основі порівняння сучасного стану української, американської та європейської освітніх систем. Для досягнення поставленої мети автором було використано такі загальнонаукові методи дослідження протягом трьох етапів наукової розвідки: структурний і компаративний аналіз, синтез, узагальнення та систематизація, а також моделювання. Опрацьовано теоретичну базу у вигляді наукової та публіцистичної літератури щодо питань підготовки магістрів спеціальності бібліотечної та архівної справи в Україні та за кордоном. Здійснено порівняння досвіду українських вищих навчальних закладів, американських та європейських закладів вищої освіти з метою виокремлення спрямованості підготовки фахівців за спеціальністю 029 «Інформаційна, бібліотечна та архівна справа». Визначено теоретичну спрямованість української освітньої системи формування магістрів зазначеної спеціальності та водночас практичну орієнтованість університетів США, Франції, Австралії, Іспанії та Швеції. Розроблено інноваційну структурно-функціональну модель формування змісту підготовки магістрів інформаційної та бібліотечної справи на основі компаративного аналізу та теоретичного й практичного компонентів. Практична цінність наукової роботи полягає в створенні авторської моделі перспективної функціональної підготовки магістрів спеціальності 029 «Інформаційна, бібліотечна та архівна справа» відповідно до вимог сучасності з подальшим її можливим впровадженням у діяльність вищих навчальних закладів

Ключові слова: цифрова компетентність, освітньо-навчальна програма, здобувач вищої освіти, структурно-функціональна модель, професійне становлення