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THE WEBPORTAL OF V.O. SUKHOMLYNSKY STATE SCIENTIFIC AND PEDAGOGICAL LIBRARY OF UKRAINE AS AN INFORMATION RESOURCE FOR IMPLEMENTATION OF RESEARCH IN EDUCATION, PEDAGOGY AND PSYCHOLOGY

Abstract. In the context of the digital transformation of society and the integration of Ukrainian science and education into the European scientific and educational space, it becomes necessary to carry out high-quality, competitive scientific research which is demanded by theory and practice. The key factor in this process is the creation and successful functioning of a system of information and analytical support for research in education, pedagogy and psychology.

Today libraries accumulate materials for digital education and they can effectively serve as centres for learning throughout life. A library should be a full-fledged part of the open scientific and educational space. The paper presents to the scientific and educational community the educational information resources of the V. O. Sukhomlynsky State Scientific and Pedagogical Library of Ukraine (SSPL) of the National Academy of Educational Sciences of Ukraine (NAES of Ukraine). The authors feature the major characteristics of the SSPL web portal, its contents, functional specificity and purpose.

It has been substantiated that the library site meets the requirements of relevance, substantial completeness, usability, accessibility, topicality, it has its own unique style, harmoniously combines the traditions of the scientific and pedagogical library and new technological solutions. It has been substantiated that the SSPL web portal fully fulfils informational, search, educational, advertising, navigation functions and serves as an integrated resource, a powerful tool for promoting information and library products and services that meet modern scientific and educational needs of society.

The authors, among other things, have provided an overview of the SSPL electronic catalogue as the basis for scientific research. The relevance of the institution's web portal has been statistically confirmed. It has been substantiated that the web portal is a powerful tool for conducting research in the issues of education, pedagogy and psychology. Also, its functioning is a significant factor that affects the image of both the SSPL and the NAES of Ukraine. The priority tasks for improving the web portal have been identified.

Keywords: web portal; electronic library; scientific library; digital scientific and educational resources; V.O. Sukhomlynsky SSPL of Ukraine.

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1. INTRODUCTION

The statement of the problem. Digital transformation has covered all the areas of social, economic and political life as well as the majority of human activities [1]. In the conditions of the integration of the Ukrainian science and education into the European scientific and educational space, the growth of requirements for the quality and effectiveness of scientific research, training of scientific and scientific-pedagogical personnel in line with the development of a society of network structures, the need for widespread use of information and communication technologies has become urgent. The National Academy of Educational Sciences of Ukraine (hereinafter the NAES of Ukraine), in accordance with its statutory tasks, focuses on the implementation of high-quality, competitive research and experimental studies in the field of education, pedagogy and psychology [2, p. 32].

Based on the open electronic scientific and educational systems, a system of information and analytical support for research in the field of educational sciences has been created and it successfully functions in the Academy of Educational Sciences of Ukraine [3], [4]. The system-forming elements of the system are statistical, information-analytical and scientometric services (open journal systems, scientific electronic libraries, anti-plagiarism programs, platforms for webinars and open conference systems, Google Scholar scientometric system services, Google Analytics website monitoring systems and electronic social services networks). The system fulfils the tasks of preserving and disseminating innovative pedagogical developments and simplifies the access to scientific and educational resources. It should be noted that by informational and analytical support of pedagogical research we mean providing researchers with assistance and promotion in obtaining and analytical processing of information and data concerning planning, organization, conduct and implementation of the results of pedagogical research by means of information and communication technologies [4]. Open electronic scientific and educational systems are defined as automated information systems containing data primarily of educational and scientific character, which provide information support for education and science and use technologically computer information and a communication platform for transportation and processing of information objects [5].

Given this, libraries can become, first of all, promoters of digital literacy development as well as accumulators of all kinds of materials for digital education, and can effectively serve as centres for learning throughout life. It is equally important for a library to be a full-fledged part of the open scientific and educational space. For this, it is necessary not only to provide broadband Internet access in these institutions and the corresponding equipment, but also to stimulate the development of a network of electronic libraries of various profiles.

The Strategy of librarianship development till 2025 in Ukraine “Qualitative changes in libraries to ensure sustainable development of Ukraine” (2016) states the necessity to implement a project of a unified universal web portal of library information resources [6].

V. O. Sukhomlynsky State Scientific and Pedagogical Library of Ukraine (hereinafter SSPL) as a structural part of the National Academy of Educational Sciences of Ukraine since 1999 has been developing an educational information resource which has transformed into a powerful web portal (access mode: http://dnpb.gov.ua/ua/) to meet the information needs of educational policy developers, researchers, academics, teachers and students.

To meet the challenges of the time, in particular, teachers’ and students’ need in using library websites, today it is important to explore new approaches to the creation, content and development prospects of specialized information resources.

Given this, the relevance of our research is reasoned by the need to use libraries’ websites for improvement of the effectiveness and quality of research in the issues of education, pedagogy and psychology.

The analysis of recent research and publications. Many works by the Ukrainian scholars and practitioners dedicated to the analysis of the creation and functioning of libraries' websites give a general review of libraries' websites of various kinds and types. The mission of the libraries of scientific institutions is to provide information for scientific research. Ukrainian specialists in the field of librarianship prove the need to introduce new digital services for research support in the libraries of higher education institutions of Ukraine and in research institutions: O. Bruy [7], A. Rzheusky [8], O. Polyakova and O. Sokur [9], L. Trachuk [10], S. Tolochko [11], O. Maryina and S. Maryin [12] and others.

Foreign scholars and practitioners highlight some issues of creation and operation of libraries' websites. In particular, they study issues about site content management solutions (S. Conrad, C. Stevens [13] and J. Buell, M. Sandford [14]); ease of use of a university library site (E. Azadbakht, J. Blair, L. Jones [15]); consulting services on a site (S. Burke and M. Strothmann [16]); mobile applications and mobile sites (D. Potnis, R. Regenstreif Harms, E. Cortez [17] and N. Arroyo-Vázquez, J.-A. Merlo-Vega [18]).

The analysis of the aforementioned works served for the establishment of the directions for the development of libraries' electronic resources and their websites in particular.

The ways, means and methods of development of information resources in educational and pedagogical sphere are presented in the following documents: The Strategy for the Development of V.O. Sukhomlynsky State Scientific and Pedagogical Library of Ukraine for 2017–2026 [19], the Concept of Creation of the Integrated Sectorial Information Resource at V.O. Sukhomlynsky State Scientific and Pedagogical Library of Ukraine, as well as in the works by P.I. Rogova [20].

Various aspects of the creation of a web portal as a sectorial information resource of the SSPL are covered by Ukrainian scientists. Thus, the conceptual principles of creating a web portal were set out in the works by Yu.I. Artemov [21] and N.T. Zadorozhna [22]. Its development as an information resource for scientific research was studied by L.D. Berezivska and N.V. Varaksina [23]. During 2015-2019, the SSPL researchers analysed various aspects of the organization and methodology of creation of a web-oriented library and information resources for Ukraine's education sector. The formation of an electronic catalogue is covered in publications of S. G. Kovalenko [24], L. M. Ushakova [25]; scientific and pedagogical electronic library – N.V. Varaksina (2017) [26]; the formation of consolidated databases – N. Ye. Zorina and S. G. Kovalenko [27]; the creation of electronic bibliographic resources – L. O. Ponomarenko [28]. The experience of creation of an electronic information and bibliographic resource "Outstanding Educators of Ukraine and the World" is presented in L. D. Berezivska's works [29].

At the same time, in the mentioned works the scientists did not set the goal of a comprehensive study of the importance of a sectorial web portal for the implementation of scientific research in the issues of education, pedagogy and psychology. This gap explains the relevance of our research.

The purpose of the article is to feature the specifics of creation, content, and the importance of the SSPL web portal for identifying the possibilities of its wide use for research in the issues of education, pedagogy and psychology in the conditions of a rapid development and implementation of digital technologies. To realize this goal, it is necessary to solve the following tasks:

- ✓ to identify the reasons and purposes for the development of a sectorial web portal;
- ✓ to reveal the specificity of a sectorial portal content formation, its structure;
- ✓ to substantiate the importance of a web portal for research in the issues of education, pedagogy and psychology.

2. THEORETICAL BASIS OF THE RESEARCH

The methodological basis for the study was formed by the ideas of the leading Ukrainian scientists on modern tasks of digital transformation of education (V.Yu. Bykov, O.P. Pinchuk, O.M. Spirin) [1]; on the formation of corporate information systems to support research and educational activities based on cloud-oriented services (V.Yu. Bykov, O.M. Spirin, M.P. Shyshkina) [5]; on information and analytical support of scientific research in the issues of education and pedagogy with the use of electronic systems of open access (S.M. Ivanova, O.M. Spirin, A.V. Yatsyshyn and others) [3], [4]; on the web resource "Electronic Library of the National Academy of Educational Sciences of Ukraine" (O.P. Pinchuk, M.A. Shynenko) [31]; on the key characteristics of a website (N.T. Zadorozhna) [22].

Thus, N. T. Zadorozhna believes that the idea of a portal work involves the creation of Internet services for attracting the maximum number of user visitors. Based on the paradigm of the information society, she considers powerful information websites and portals of sectorial libraries where the issues of communication and interaction are based on standards and protocols which are recognized universally. One of the key characteristics of a website is usability – the property of a product to be usable. This concept describes the area of activity aimed at creating user-friendly web resources based on convenience, efficiency, profitability and pleasure with which users can perform certain tasks in a specific environment. The higher usability, the more successful the website, the higher the traffic, the higher the search engine results. Since a website, like any other product, consists of two parts – content and form, it is important to evaluate the degree of usability of the website as an Internet product in terms of its content and form. Content (with a high level of usability) is a correctly written text, original and interesting, with high-quality photographs, unique drawings, diagrams that can be read and decoded. The usability of a website form is evaluated primarily by indicators of its structure and design: the convenience of page layout, navigation, the use of buttons, the logical construction of menus, the presence of banners and other elements which affect the ease of remembering and orientation on a website and therefore its use in general. That is, a high degree of usability of a sectorial portal corresponds to a high degree of harmonization of traditional and electronic sectorial resources available directly on the portal or through the corresponding Web services. Search engine optimization (SEO) is a set of measures for internal and external optimization to increase the position of a website in the results of search engines for specific user requests, aimed at the increase of traffic or potential customers (for commercial resources) with further monetization of this traffic. Usually, the higher the position of a website in the search results is, the more interested visitors get to it from search engines. The degree of harmonization of traditional and electronic resources can be indirectly estimated through the SEO of a sectorial portal because if the portal's position in the search results is high, its content adequately represents the resources in the field, so its web resources are mutually consistent, formed into a system, unified and well-ordered [22].

In this study we use the terms "website" and "web portal" in the following meanings. A site [website] is a collection of web pages that share common content. It is hosted on a web server under a specific domain name (IP-address) and implements a virtual representation of an organization or an individual on the Internet. It is a space containing various types of content (related web pages, graphic, video and binary files, etc.), located on a web server. A separate kind of a website is a blog (from "web log" – "a network journal or event diary"), the main content of which is notes, images or multimedia which are submitted regularly. Also, let us note that in the explanatory dictionary, an Internet portal or portal is defined as a website that provides the Internet user with various interactive services (mail, search, weather, news, forums, discussions, voting, etc.) that operate within the framework of the same website. In other words, it is software for organizing an integrated approach for providing the user with a

unified interface for accessing various applications. Given this, the SSPL portal is understood as a set of web pages united by common content, placed on a web server under a domain name (dnpb.gov.ua) and implementing a virtual representation of the SSPL on the Internet. It represents a space containing various types of content (video and graphic files, etc.) and organizes an integrated approach in providing the user with a unified interface for access to various applications, for example, to an electronic catalogue on the webIRBIS64 platform.

3. METHODOLOGY OF THE RESEARCH

To achieve the intended goal, theoretical and empirical research methods were used: analysis of regulatory documents, highlighting key concepts, studying practical experience; methods of comparative and statistical analysis; historical and systems approaches (analysis and modelling).

4. RESULTS OF THE RESEARCH

The introduction of new technologies in the activities of libraries forms modern information and telecommunication infrastructure for providing quality services on its basis and ensuring accessibility for information users. In the mid-1990s in Ukraine, libraries after gaining the access to the Internet, began to create websites through which remote users are provided with access to a wide range of electronic information resources and services.

The specificity of a library website puts forward certain requirements to it. A library website should be relevant, have adequate informational content, in particular, materials characterizing the library's activities, a simple and logical structure, regular updating of information, a unique style (design, logo and other attributes). When creating a website, it is also necessary to take into account the needs and requirements of its users and the presence of various web services. Information content, its placement and design should harmoniously combine both certain traditions of the library itself and new modern technological solutions.

According to experts, in particular to V. S. Bilous, S. Ye. Tolochko, L. F. Trachuk and others, in the electronic environment such traditional services as reference and bibliographic services, ordering and access to documents, etc., acquire new qualities: accessibility and efficiency. The ideology of a single access to all library and information resources, including those created on the basis of cooperation and mutual use, is implemented through the website. Thanks to this, an increasing flow of information from the library to the reader goes through websites: access to electronic catalogues, databases, electronic collections, electronic libraries; instant messaging services (online communication, information service, virtual help) are offered, the advantage of which is that a person does not need to visit the library personally to use them. An important place is occupied by library services based on Web 2.0 with tools such as tagging, blogging, wiki, RSS (Really Simple Syndication – "web feed" or "channel"), etc., which allow users to participate in the creation and development of information resources (replenish collections, describe resources, provide references, recommendations, etc.). Under such conditions, the direct communication between the librarian and the reader is significantly reduced, and the communicative aspect, which is realized through library websites, acquires special significance [11]. At the same time, the massive emergence of library websites revealed a number of new problems related, firstly, to website traffic, citing their resources, taking into account virtual users, website promotion in open information space; secondly, serving readers through website services; thirdly, practical experience in upgrading websites and creating content.

In our opinion, a library website combines information, search, educational, advertising and navigation functions and it is an integrated resource, a powerful tool for promoting information and library products and services, as well as creating the image of the library. It represents the institution's activities, provides access for remote users to a wide range of electronic information resources and services, it is a library's name card and an important factor affecting its image.

The first website of the library of the NAES of Ukraine was developed under the guidance of its director P.I. Rogova in 2003 on the Microsoft Front Page platform, which is an automated tool for creating web pages and websites. As a professional constructor, the program allows creating websites by adding interactive tools, multimedia effects, as well as establishing and maintaining them on a web server [32].

The constant development of modern technologies necessitated the updating of the SSPL web portal, which was carried out in 2015 under the leadership of Professor L.D. Berezivska. When building its new version, Web 2.0 technologies and relevant web standards were applied. WordPress system was chosen as the software platform, MySQL as the database management system. The system of "themes", "plugins" and "widgets" has the following main advantages: free-of-charge basis, simplicity of installation and usage, cross-platform characteristics, a built-in editor, multilingual support, and the like. The current web portal (Fig. 1) is convenient and easy to use for researchers and students.

The library's web portal is a collective product, the development of which at a substantial level involves practically all departments of the SSPL, while the technological support is carried out by the Sector of Information and Communication Technologies and Scientometrics of the Department of Scientific Information and Analytical Support of Education.

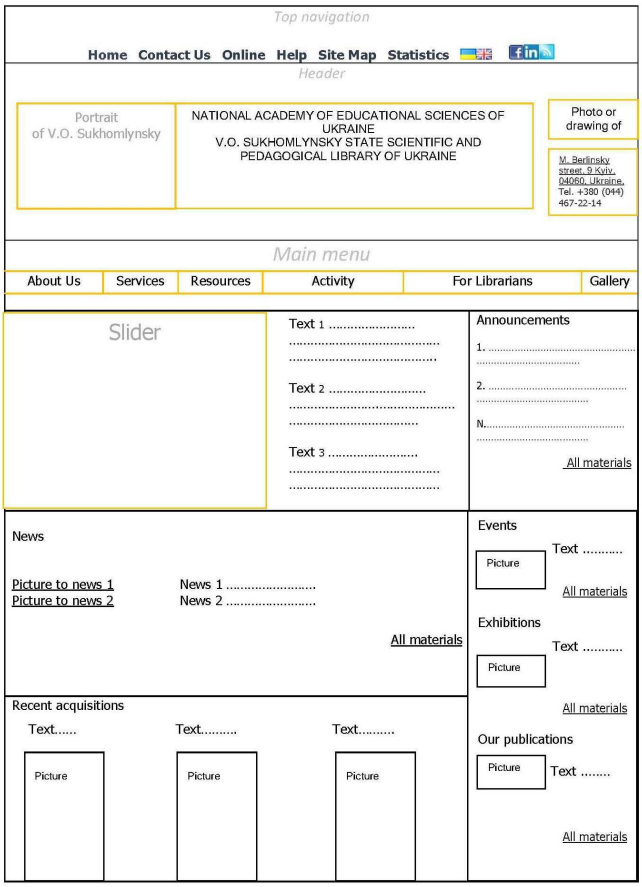

Fig. 1. Schematic representation of the interface of the SSPL web portal

The web portal was created to solve the following tasks:

– prompt satisfaction of information needs of researchers and students in order to improve the quality of scientific research;

– the access to resource that performs informational, communication, image, service functions in the field of education, pedagogy and psychology;

– integration of information about traditional (paper) library resources with digital resources storage within the sectorial information web environment;

– scientific and information support of research in the fields of education, pedagogy and psychology.

The specificity of the content formation of the sectorial portal is the following: on the one hand, it contains the information resources of the institution, and on the other, it integrates data from various information systems operating in the information environment. The portal supports bilingualism – Ukrainian and English versions.

The homepage (Fig. 2) of the portal corresponds to the key definition of this concept as a general entrance to a specific object. It contains a top navigation block: the website map, online help, contacts, title, menu, slider, information blocks and banners. The information is structured into sections: “About Us”, “Resources”, “Services”, “Activity”, “For Scientists”, and “For Librarians”, each of which reveals a separate topic. “Gallery” introduces individual events, and “Online Registration” allows a remote user to register as a library reader.

Fig. 2. The homepage of the portal

In the section **“About Us”** the general information about SSPL is compiled: its history, structure, reading rooms, address, working hours and contact details. The user has the opportunity to view the portfolio of scientists, a list of partners of the institution, the highlights of the library. A virtual tour of the library provides an opportunity to learn the information about the reading rooms, in particular the Reading Room of the V. Sukhomlynsky Collection, the Dissertation Room, the Room-Museum of Rare Books, etc. It is important that in this very section the Strategy of Development of V. O. Sukhomlynsky State Scientific and Pedagogical Library of Ukraine for 2017-2026 (under the general editorship of L.D. Berezivska, 2017) is presented, which outlines the library mission, the priorities of its activities, key areas of development, and tasks for their implementation [19].

In the **“Resources”** section, the information about the library’s collections is provided. It is possible to view its electronic resources, for example, various information, bibliographic, as well as high-quality analytical materials, in particular with bibliographic and analytical media reviews in the field of education. Various bibliographic lists prepared by the specialists

will allow users to familiarize themselves with the literature on topical issues of education: "Psychological service in the education system in the implementation of the New Ukrainian School concept", "Science in higher education", "Non-formal education as an important element of continuing education", "Gamification in the system of modern learning technologies", "Academic integrity: on the way to a new scientific and educational culture", "Dual education as a modern form of training of competitive professionals: foreign experience", "Distance education: essence, advantages and prospects of implementation", "STEM- education in Ukraine: on the way to the world innovation trend"", etc. The information on the individual components of the SSPL collections, in particular the V. O. Sukhomlynsky Collection, the collection of dissertations and abstracts has been highlighted. In this section researchers can familiarize themselves with the system of traditional catalogues, file cabinets and the like. It is important that integrated information on education, pedagogy and psychology is holistically reflected here.

Undoubtedly, any scientific search begins with a study of the degree of knowledge of the problem, the selection of the source base. The SSPL electronic catalogue comprises more than 420 thousand records: they are books, dissertations, abstracts, articles from periodicals. On the basis of innovative principles of cooperation and coordination, abstractive and consolidated databases of dissertations, collections of scientific papers and bibliographic publications are compiled through the exchange of analytical bibliographic records from periodicals in the field of education, library science, bibliography science and book science by educational libraries of the Ministry of Education and Science of Ukraine and the NAES of Ukraine.

The replenishment and the volume of some databases as of 01.01.2020 are: "Books" – 6160 (112841), "Periodicals" – 7401 (229331), "Rare books" – 1191 (10138), "Librarianship" – 1177 (14046) , "Abstracts database" – 1154 (17915), "Electronic library" - 16 (950), "Sukhomlynsky Studies" – 1165 (3591), Consolidated database of dissertations – 140 (10 808), Consolidated database of collections of scientific works – 2676 (22587), Consolidated database of bibliographic publications of educational libraries – 7 (415). The total database traffic is 69,620 visitors.

One of the important components of the web portal is **the Scientific and Pedagogical Electronic Library of the SSPL**, which as of 01.01.2020 contains 2280 documents, its attendance in 2019 was 3606 visitors.

It consists of 4 thematic sections:

- ✓ book memorabilia - 1270 documents;
- ✓ works by V.O. Sukhomlynsky and literature about him – 219;
- ✓ products of V.O. Sukhomlynsky SSPL of Ukraine – 117;
- ✓ products of the network of educational libraries of the Ministry of Education and Science of Ukraine and the National Academy of Educational Sciences of Ukraine – 25.

The number of other documents that do not belong to these sections is 511.

The SSPL pays great attention to popularizing the achievements of outstanding teachers, educational and public figures, striving to make available information about their lives, activities and creative heritage, not only in printed but also in electronic form. To this end, since 2008, a virtual information and bibliographic resource "Outstanding Educators of Ukraine and the World" has been formed (Fig. 3), which integrates information about famous Ukrainian and foreign teachers (2008-2014 – P. I. Rogova was the project manager, since 2015 – L. D. Berezivska). The first block of the resource is dedicated to V. O. Sukhomlynsky, the outstanding Ukrainian humanist teacher and children's writer [29].

Today this resource, which is constantly supplemented and updated, contains 56 personalities. These are well-known Ukrainian teachers and educators of different historical

periods: Kh. D. Alchevska, S. A. Ananyin, O. M. Astryab, S. Ya. Batyshev, Ye. S. Bereznyak, M. F. Berlynsky, T. F. Bugayko, M. H. Bunge, G. G. Vashchenko, M. M. Gryshchenko, B. D. Grinchenko, M. M. Grinchenko, M. I. Demkov, L. D. Depolovych, M. P. Drahomanov, V.F. Durdukivsky, O.V. Dukhnovych, G.E. Zhurakivsky, O.A. Zakharenko, V.N. Karazin, M.O. Korf, G.S. Kostyuk, P.O. Kulish, M.M. Lange, T.G. Lubenets, A.S. Makarenko, O.F. Muzychenko, V.P. Naumenko, V.O. Onyshchuk, Olena Pchilka, M.I. Pyrogov, Ya. B. Ryeznik, S.F. Rusova, Ya. P. Ryappo, I.O. Sikorsky, G.S. Skovoroda, I.P. Sokolyansky, I.M. Steshenko, V.O. Sukhomlynsky, I.F. Teslenko, K D. Ushynsky, S.H. Chavdarov, P.R. Chamata, Ya.F. Chepiga (Zelenkevych), P.D. Yurkevych, M.D. Yarmachenko. In addition, foreign personalities are presented there: V.M. Bekhterev, F. Dittes, G. Kershensteiner, J. A. Comenius, J. Korczak, M. Montessori, J.-J. Rousseau, F. W. Froebel, S. Frenet.

The resource offers readers the following materials: a biography of a personality; bibliography of his or her works and materials about him or her; individual full-text works; additional materials, in particular a photo gallery; information disclosing the activities of the institution that bears their name (if any); information on awards, prizes, monuments, scientific readings related to the name of the person and the like. It is important that the work at the page of each personality of the electronic resource is a continuous process.

It is necessary to note that through the prism of biographies of teachers and educational figures, the development of Ukrainian education, humanistic pedagogical thought in both macro historical and micro historical dimensions is traced. It is noteworthy that the information and bibliographic resource "Outstanding Educators of Ukraine and the World" integrally represents the life path and scientific heritage of a certain famous figure and reflects the degree of its study in the scientific space, helps to make the information requests more profound for a wide range of remote users, including researchers, teachers, students, post-graduate students, doctoral students of Ukraine and the world, in various issues of the history of national and foreign education [29].

Fig. 3. The homepage of the resource "Outstanding Educators of Ukraine and the world"

The section **"Services"** is useful for the work of researchers. It presents the services that the library provides to users, in particular online services: electronic document delivery; ordering documents through the electronic catalogue on the reservation shelf; virtual bibliographic reference; "Ask a Librarian" service (you can choose a convenient method for yourself: chat, Skype, email, telephone). The visitor can familiarize themselves with the Rules

for using the library, as well as contact the specialists of the institution in order to obtain an UDC index for their works.

The **"Activity"** section integrates information on the various areas of SSPL activity: scientific, informational, library, sociocultural and international. Here it is possible to read about scientific projects carried out at the institution, the SSPL bibliometrics, the activities of the scientific council, the council of young scientists of the library. The various scientific events carried out by the library are highlighted, including those for raising the professional level of scientific and library workers (lectures, scientific and methodological seminars "Scientific library and the quality of modern education", etc.). The users can familiarize themselves with the periodical collection "Scientific works of V. O. Sukhomlynsky State Scientific and Pedagogical Library of Ukraine" and the electronic journal "Scientific and Pedagogical Studios" which started in 2017.

"For Scientists" section is being developed to address the researchers' specific needs. It reflects a variety of information, in particular, the modern regulatory framework, standards and international styles of publications designs and the like. Links to the Bibliometrics of Ukrainian science and to international scientometric bases and systems are provided separately. This information is in great demand and it is constantly updated. Various statistical programs are used for quantitative or qualitative measurement of information sources, i.e. econometrics, sociometry and informometrics, etc. [30].

"For Librarians" section is valuable for employees of educational libraries. It contains legal, regulatory, statistical, bibliographic and full-text materials. The page **"Library of the New Ukrainian School"** presents materials on the experience of modern school libraries. Users can familiarize themselves with various media resources (videos "What transformations await school libraries in the New Ukrainian School?", "Creative school library", etc.), materials from the panel discussion "The Library of the New Ukrainian School: Realities and Prospects", manuals "New Educational Space. Motivating space" and "New educational space. Modern equipment" with relevant information on Internet security. In addition, the current situation has not gone unnoticed: the page **"Libraries in the context of the COVID-19 pandemic"** was created, where materials devoted to this issue were posted: "Recommendations for the exit of educational libraries from the quarantine", IFLA information "COVID-19 and the global library sphere / COVID- 19 and the Global Library Field", recommendatory bibliographic lists of literature formed by the specialists of the SSPL and Internet resources.

A traditional area of work of the SSPL is exhibition and exposition activity. The **"Exhibitions"** section features thematic or personal book exhibitions (stationary or presented as virtual resources) organized by the library for outstanding historical events, anniversary dates of outstanding Ukrainian and foreign teachers of the past and present. It is noteworthy that the catalogues of these exhibitions are presented on the web portal as an integral bibliographic knowledge on a specific problem. These catalogues can serve researchers in the process of scientific work, familiarize educators and scientists with new acquisitions: textbooks for institutions of general secondary and higher education, manuals, monographs, articles and other publications. The **"Events"** section covers information on scientific, cultural and educational events that took place in the library.

"Our Publications" section presents the full texts of publications of the library research staff. Among them are **scientific and auxiliary bibliographic indexes** on relevant problems of education, pedagogy and psychology which can serve as a source base for scientific research. For example: "Reforming general secondary education in Ukraine in the twentieth century through the prism of source study" (2019), "Library of an educational institution in the context of informatization of society. Issue 4" (2019), "National-patriotic education in Ukraine "(2019), "V. O. Sukhomlynsky State Scientific and Pedagogical Library

of Ukraine (2010-2019)" (2019), "Bibliographic Indices in the Collections of V. O. Sukhomlynsky State Scientific and Pedagogical Library of Ukraine: 37 Education. Upbringing. Training. Leisure" (2019), "Preschool education as a component of the continuing education system of Ukraine (2007-2014). Issue 2" (2016), "Specialized scientific councils as a component of the development of the Institute of Pedagogy of the Academy of Educational Sciences of Ukraine (1994-2014)" (2016). The section also contains catalogues which reflect certain documents of the SSPL collections: "Periodicals of 1917-1945 in the collections of the V. O. Sukhomlynsky State Scientific and Pedagogical Library of Ukraine" (2019) and "Textbooks and study guides on natural-mathematical subjects for elementary and secondary educational institutions (1918-1945) from the collections of V. O. Sukhomlynsky State Scientific and Pedagogical Library of Ukraine" (2016).

Bibliographic indices cover the creative work of modern Ukrainian and foreign scientists ("Volodymyr Ilarionovych Luhovyi – the First Vice President of the National Academy of Educational Sciences of Ukraine: materials to biobibliography (2015-2020)" (2020), "Oleksandr Ivanovych Lyashenko: to the 70th anniversary of his birth" (2020), "Olena Ihorivna Lokshyna: Researcher in the field of comparative studies in education: to the 30th anniversary of scientific activity" (2019), "Oleg Mykhailovych Topuzov – the Vice President of the National Academy of Educational Sciences of Ukraine" (2019), "Creative work of Vasyl Hryhorovych Kremen in innovative development of Ukraine's Education" (2017), "Andriy Mykolayovych Gurzhiy: (to the 70th anniversary of his birth)" (2016), "Sukhomlynska Olga Vasylivna. Biobibliography" (2016)) and of outstanding teachers of the past ("Vasyl Oleksandrovych Sukhomlynsky: to 100th anniversary of his birth" (2018)).

A wide range of publications presented in this section makes it possible to comprehend the scope of the multidimensional work of the library specialists. This is **reading book** "Anthology of texts on the reform of education in Ukraine: programs, concepts, projects (1991-2017)" (2019), **practical manuals** ("Systematization of documents and organization of catalogues and files of educational libraries according to the tables of the Universal Decimal Classification" (I. G Lobanovska, 2019), "The Modern School Library: Organization of Work" (2019)), **methodological guidelines** ("Educational library in the modern system of sociocultural communications" (2019), "Patriotic education in school libraries: methods and approaches" (2017), "Bibliographic design of scientific works" (2015)), **collective monographs** ("Organization and methods of creating a sectorial library and information resources for the educational sector of Ukraine" (2016), "Information activities of V.O. Sukhomlynsky State Scientific and Pedagogical Library of Ukraine: prospects for development) (2015)), **directories** "Scientific-informational and sociocultural activities of leading educational libraries – 2020" (2020), "V.O. Sukhomlynsky State Scientific and Pedagogical Library of Ukraine: achievements and prospects (2015-2019)" (2019), "Directory of instructional materials for educational libraries of the Ministry of Education and Science of Ukraine and the National Academy of Educational Sciences of Ukraine (2017–2019)" (2019), "Directory of scientific, informational and publishing activities and key events aimed at improving library workers' professional skills in the field of education" (2019), etc.).

"Our Publications" section also contains **event materials** ("Information support for education and science sphere: for the 20th anniversary of V. O. Sukhomlynsky State Scientific and Pedagogical Library of Ukraine" (2019), "Regional Dimensions of the Development of the Educational Space in Ukraine" (2019), "Forms of representing sources on the History of Education (for the 20th anniversary of V. O. Sukhomlynsky State Scientific and Pedagogical Library of Ukraine)" (2019), "Historiography as an important component of research in the History of Education: European and domestic dimensions" (2018), "Sources and historiography about transformation processes in the educational space of Ukraine (1991-2017)" (2018), "Development of education in the time of the Ukrainian revolution (1917-

1921)" (2017), "Modern requirements for the organization and conduct of historical and pedagogical research" (2017)), a **review publication** "Innovative development of education in Ukraine and abroad in the conditions of European integration and globalization processes" (2019), a **collection of poems** "With Ukraine in the Heart" (2016), etc.

In line with the challenges of the COVID-19 pandemic, the web portal has become the main platform for library and information support for remote users. A remote access to the international resources of the EBSCO company was provided to the scientists of the NAES of Ukraine and to the library users. In the section "For researchers and teachers", recommended bibliographic lists "Legislative and regulatory support of the education sector in Ukraine to oppose the spread of COVID-19", "Psychological and pedagogical support of citizens in the context of the COVID-19 pandemic", "Coronavirus COVID-19", arranged by the SSPL specialists, are offered to the users together with Internet resources. Recently, a number of new virtual projects have been launched. Thus, on the basis of the electronic information and bibliographic resource "Outstanding educators of Ukraine and the world", the online project "We stand on the shoulders of our predecessors: Outstanding educators celebrating a jubilee" was launched (http://naps.gov.ua/ua/press/releases/ 1830 / and others), which is aimed at informing the pedagogical community about outstanding educators of the past, who enriched the domestic pedagogical science and education. An online project "Reading Sukhomlynsky Online" (https://www.facebook.com/dnpb.gov.ua/posts/2991114984274153) has been introduced, which familiarizes scientists, teachers and other SSPL users with the scientific heritage of the outstanding Ukrainian teacher V.O. Sukhomlynsky online.

During the COVID pandemic, the preparation of virtual exhibitions was intensified, which were announced on the web portal: "Scientists of the National Academy of Educational Sciences of Ukraine – domestic scientists" (https://dnpb.gov.ua/ua/?news=24073), "STEM-education: the world educational trend" in 2 parts, "STEM-education: foreign experience and its implementation in Ukraine" and "STEM-education as an effective tool of the New Ukrainian school" (https://dnpb.gov.ua/ua/?exhibitions=24072) (for All-Ukrainian Festival of Science), "Ukraine: the way to the European Union", "European education and culture: an electronic guide" (https://dnpb.gov.ua/ua/?news=24118) (for Europe Day in Ukraine), etc.

It is noteworthy that the indicators of the web portal attendance during the COVID quarantine have increased. Thus, from March to June 2020 the portal was visited by 30 thousand people from Ukraine and other countries. The quarantine restrictions have led to a surge in demand for electronic resources, digital and software products intended for telecommuting or learning. In order to study the information requests of the SSPL users and to improve the scientific, informational and library support for education, pedagogy and psychology, an online questionnaire was introduced (https://onlinetestpad.com/evgkxnqufq6hw) through the SSPL web portal. We hope that the analysis of the survey results will help to improve the process of meeting the information needs of the target audience of web portal users – teachers, researchers and students.

The demand for the SSPL web portal, which presents innovative services, various types of bibliographic, abstractive and analytical information, is evidenced by statistics generated by the Google Analytics service. The number of the web portal users increases annually. Thus, in 2019, more than 12 thousand users visited it, of which 9.5 thousand were new; there were 30.8 thousand sessions and more than 98 thousand page views. The distribution of users by country (top 10) is as follows: Ukraine – 9285, USA – 441, Russia – 81, Germany – 49, France – 30, Belarus – 12, China – 10, Poland – 9, India – 8.

Based on the analysis of the data on Google Analytics, a popularity rating was set for pages viewed by their users: Our publications – 4451; Implementation of the Universal Decimal Classification – 3356; News – 2112; Electronic catalogue – 1884; Outstanding Educators of Ukraine and the world – 1481; Exhibitions – 1481; Events – 1280; Announcements – 1187; All-Ukrainian monthly edition of school libraries – 792; Library of the New Ukrainian School – 764; Contacts – 719; Stock of the library science study – 708; Image catalogue – 703; To help professional self-education – 669; Catalogues and file cabinets – 659; For subject teachers, class teachers and educators – 625; Abstractive resources – 623; Calendar of significant and memorable dates in the field of education and pedagogical science – 601.

5. CONCLUSIONS AND PROSPECTS OF FURTHER RESEARCH

Thus, today the SSPL web portal is a powerful tool for conducting research in the issues of education, pedagogy and psychology. At the same time, it is a significant factor which positively affects, in particular, the image of V. O. Sukhomlynsky SSPL of Ukraine and the NAES of Ukraine as a whole. The portal combines information, search, educational, advertising, navigation functions and it is an integrated resource, a tool for promoting information and library products and services. The site implements the ideology of a single access to all library and information resources, including those created on the basis of cooperation and mutual use. Through it, access to electronic catalogues, databases, electronic collections, electronic libraries is provided; instant messaging services (online communication, information service, virtual information) are offered. Therefore, researchers and educators can receive diverse high-quality information in the field of education. It was the web portal that became the main platform for communication with remote users during the COVID-19 pandemic. It is positive that its attendance rates are growing.

We believe that this powerful scientific and educational resource has no analogues in the national information space. It is noteworthy that together with the Electronic Library of the National Academy of Educational Sciences of Ukraine (https://lib.iitta.gov.ua/) it meets the needs of scientists and teachers in the study of previous practices and the latest developments in domestic education.

The priority tasks for the web portal improvement are: filling it with English-language content; creating 3D excursions at the library, enriching museum expositions with elements of augmented reality, updating the presentation of the electronic resource “Outstanding Educators of Ukraine and the World” using modern ICTs, development of the project “National Academy of Educational Sciences of Ukraine”.

In line with the expansion of online services, remote access to electronic resources, the further activities of the SSPL should be directed towards the formation of full-text databases, providing access to international information resources, the development of remote methodological services, the organization of a virtual reading room, holding cultural and educational online events, etc.

A promising area is also the strengthening of cooperation between the SSPL and the Institute of Information Technologies and Learning Tools of the National Academy of Educational Sciences of Ukraine, in particular the integration of the databases of the SSPL and Electronic Library of the NAES of Ukraine, which is a significant component of the information and analytical support for scientific activities in the field of educational sciences.

Of course, the scope of the paper does not allow us to characterize in detail all the components of the SSPL web portal, our primary goal was to draw the attention of researchers, library workers, students and teachers to the practical use of its resources.

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ВЕБПОРТАЛ ДНПБ УКРАЇНИ ІМ. В. О. СУХОМЛИНСЬКОГО ЯК ІНФОРМАЦІЙНИЙ РЕСУРС ДЛЯ ЗДІЙСНЕННЯ ДОСЛІДЖЕНЬ В ОСВІТІ, ПЕДАГОГІЦІ, ПСИХОЛОГІЇ

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Анотація. В умовах цифрової трансформації суспільства й інтеграції української науки та освіти до європейського науково-освітнього простору постає потреба здійснення якісних, конкурентоспроможних, затребуваних теорією й практикою наукових досліджень. У цьому процесі визначальним є створення та успішне функціонування системи інформаційно-аналітичної підтримки досліджень з питань освіти, педагогіки, психології. Аргументовано, що в сучасних умовах наукові бібліотеки акумулюють матеріали для цифрової освіти та можуть ефективно виконувати функцію центрів навчання протягом життя. Бібліотека має бути повноцінною частиною відкритого науково-освітнього простору. Презентовано науково-освітній спільноті інформаційний освітній ресурс Державної науково-педагогічної бібліотеки України імені В. О. Сухомлинського (ДНПБ) Національної академії педагогічних наук України (НАПН України). Метою статті є розкриття особливостей створення, змісту, функціональних особливостей і призначення вебпорталу ДНПБ.

Обґрунтовано відповідність сайту вимогам релевантності, змістової повноти, простоти й доступності, актуальності, створення унікального стилю, гармонійному поєднанню традицій науково-педагогічної бібліотеки та нових технологічних рішень. Доведено, що вебпортал ДНПБ повною мірою виконує інформаційні, пошукові, освітні, рекламні, навігаційні функції та є інтегрованим ресурсом, потужним засобом для просування інформаційно-бібліотечних продуктів і послуг, відповідає сучасним науково-освітнім запитам суспільства.

Авторами, серед іншого, представлено огляд електронного каталогу ДНПБ як основи для наукових розвідок. Статистично підтверджена затребуваність вебпорталу установи. Обґрунтовано, що вебпортал являє собою потужний інструмент для проведення наукових досліджень з питань освіти, педагогіки, психології. Також його функціонування є вагомим чинником, що впливає на імідж як ДНПБ, так і НАПН України. Визначено пріоритетні завдання щодо вдосконалення вебпорталу.

Ключові слова: вебпортал; електронна бібліотека; наукова бібліотека; цифрові науково-освітні ресурси; ДНПБ України ім. В.О. Сухомлинського.

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Аннотация. В условиях цифровой трансформации общества и интеграции украинской науки и образования в европейское научно-образовательное пространство для проведения качественных, конкурентоспособных, востребованных теорией и практикой научных исследований определяющим является создание и успешное функционирование системы информационно-аналитической поддержки научной деятельности в области педагогических наук. Аргументировано, что в современных условиях библиотеки аккумулируют материалы для цифрового образования и могут эффективно выполнять функцию центров обучения в течение жизни. Библиотека должна быть полноценной частью открытого научно-образовательного пространства. Представлен научно-образовательному сообществу информационный образовательный ресурс Государственной научно-педагогической библиотеки Украины имени В. А. Сухомлинского (ГНПБ) Национальной академии педагогических наук Украины (НАПН Украины). Целью статьи является раскрытие особенностей создания, содержания, функциональных особенностей и назначения веб-портала ГНПБ.

Обосновано соответствие сайта требованиям релевантности, содержательной полноты, простоты и доступности, актуальности, создание уникального стиля, гармоничному сочетанию традиций научно-педагогической библиотеки и новых технологических решений. Доказано, что веб-портал ГНПБ в полной мере выполняет информационные, поисковые, образовательные, рекламные, навигационные функции и является интегрированным ресурсом, мощным средством для продвижения информационно-библиотечных продуктов и услуг, соответствует современным научно-образовательным запросам общества.

Авторами, среди прочего, представлен обзор электронного каталога ГНПБ как основы для научных исследований. Статистически подтверждена востребованность веб-портала ГНПБ. Обосновано, что веб-портал представляет собой мощный инструмент для проведения научных исследований по вопросам образования, педагогики, психологии. Также его функционирование является весомым фактором, который влияет на имидж как ГНПБ, так и НАПН Украины. Определены приоритетные задачи по совершенствованию веб-портала.

Ключевые слова: веб-портал; электронная библиотека; научная библиотека; цифровые научно-образовательные ресурсы; ГНПБ Украины им. В.А. Сухомлинского.

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