

THE SUPPORT OF PEDAGOGICAL SCIENCE AND EDUCATION BY SCIENTIFIC INFORMATION RESOURCES: EXPERIENCES OF THE REPUBLICAN SCIENTIFIC AND PEDAGOGICAL LIBRARY OF THE REPUBLIC OF KAZAKHSTAN

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ABSTRACT

The paper highlights the experiences of the Republican Scientific and Pedagogical Library (RNPB) of the Ministry of Education and Science of the Republic of Kazakhstan in the field of organizing scientific information on pedagogy and education. In the country, RNPB is the only library that has been publishing a national bibliography on topical issues of education since 1989.

A distinctive feature of RNPB bibliographic publications is their complex content: in one guide for school libraries there are working-outs on different subjects, topics, classes, and age interests of learners of different types of educational institutions (primary, basic secondary, and general secondary schools). RNPB compiles recommended literature indexes for both schoolchildren and teachers.

In addition to the current bibliography, the library publishes retrospective indexes of literature (such as the “Education and Pedagogy in Kazakhstan”) in Kazakh and Russian languages, with chronological coverage for four to five years. The historical bibliography is presented by the “History of the Development of Education and Pedagogy in Kazakhstan”, which covers the period from the 19th to the 20th centuries and was published in Russian in four parts in 2009 to 2012.

To organize the flow of primary and secondary scientific information, the RNPB creates and uses its own databases and collaborates with 15 university libraries and methodological centers of the Ministry of Education and Science of the Republic of Kazakhstan in the regions of the country. It also participates in the maintenance of the Republican Interuniversity Electronic Library (RMEB), which combines electronic educational resources of Kazakhstani higher educational institutions on the platform of the Kazakhstan Library and Information System (KABIS).

The study also highlights directions of the current and planned activities of the library.

Scientific information is of great importance for the development of professional, industrial, technological, educational, and cognitive activities. The Republican Scientific and Pedagogical Library (RNPB) of the Ministry of Education and Science of the Republic of Kazakhstan is the only organization in the country that, since 1989, has been publishing a national bibliography on topical issues and problems of education.

Scientific information is subject to requirements such as significance, timeliness, availability, efficiency, facilitating of wide dissemination and implementation of scientific achievements, exchange of advanced production experience, etc. These requirements are implemented in the information and bibliographic activities of RNPB for the network of school, college, and university libraries in the country. The main goal of this cooperation is to provide reliable and timely information to teachers, pupils, students, and researchers about publishing, availability, and the content of the necessary sources of information, and to increase the information culture of the user.

Today, in the state education system, there are 53 state university libraries, 638 state college libraries, and 6,441 state organization of secondary education libraries.

For students of different ages, teachers, specialists in teaching methods, administrators of primary, lower and upper general secondary schools, the RNPB compiles recommendatory lists and indexes, promotes library and bibliographic information, and actively realizes the potential of a recommendatory bibliography. For example, RNPB specialists selected 200 books and compiled a recommendatory list of literature for schoolchildren of different ages in the framework of the *Reading School on Vacation* project (running from June 1 to August 31, 2021). The reading program compiled for adolescents realizes an integrated approach that stimulates the reading of children, the popularization of children's and youth literature, and combines the reading of recommended literature with interesting leisure activities, including the organization of play and information zones.

A distinct feature of RNPB bibliographic publications is their complex content; in one guide for school libraries there are working-outs on different subjects, topics, classes (grades), and age interests of learners from different types of educational institutions (primary, lower, and upper secondary schools). An example is the methodological and bibliographic guide, *"Information culture of a schoolchild"* (2017) designed to provide effective assistance to pupils from the first to twelfth grades. It is a multifaceted material – the history of the development of libraries, methods of working with various sources of information, methods of intellectual and search work, bibliographic description and reference apparatus of documents, a catalog system, new library technologies and programs, entertaining sites, reading and note-taking techniques, as well as lists of recommended literature.

Recommended indexes of literature on teaching methods and technologies were compiled for teachers, such as the *"Moral, Patriotic Upbringing of Schoolchildren and Prevention of Delinquency among Children and Adolescents"* (2003), *"Education and Upbringing of Children with Special Needs"* (2018), and the *"Development of Functional Literacy of Schoolchildren is the Imperative of the Time"* (2020). The advisory index of literature, *"Rural Small School"* compiled by S.S. Burkitbaeva (1991) has been especially popular. Later, it was published under the title, *"Rural School is the Source of National Education"* (2018). For different age categories of learners, RNPB prepared and republished in 2014 a series of recommendatory bibliographic lists for out-of-class reading with the general title, *"Сіздің оқулығызға қосымша әдебиеттер (Behind the pages of your textbook)."* This issue contains nine main sections: Language and Literature, Mathematics, Natural Science, Man and Society, Art, Technology, Physical

Education, Basic Military Training, and Literature of universal content in all studies' subjects. The index was published in state (Kazakh) and Russian languages.

The current recommendatory bibliography for the educational program, "*Self-knowledge is a strategy for affirming spiritual and moral values among young people*" is designed for pupils and teachers of lower and upper general schools as well as teachers of colleges and universities. The edition is rightfully included in the classical, "golden" collection of the RNPB recommendatory bibliography and was republished in Russian and Kazakh languages in 2018 to 2020. The methodological and bibliographic guide, "*Information culture of a student*" intended to increase the level of information literacy of students of colleges and universities is being prepared for publication. In the guide, traditional and new sources of information, the specifics of industrial and scientific publications, as well as structures, technologies, and search tools typical for work in advanced educational environments and library information centers that are widely used in the professional activity of a student (a future specialist) are considered. Its appendices clearly illustrate the main provisions of the curriculum on the information culture of a learner.

RNPB also pays attention to retrospective bibliographies that are, in terms of the nature of performance and content, more related to secondary and higher professional schools. The retrospective indexes of "Education and Pedagogy in Kazakhstan" in Kazakh and Russian languages with different chronological coverages, approximately for four to five years, are regularly published. The historical bibliography is presented by the publication "History of the Development of Education and Pedagogy in Kazakhstan", which was published in Russian in four parts during 2009 to 2012 and covers the period from the 9th to the 20th centuries.

The RNPB classic recommendatory bibliography includes the annual recommendatory index, "*Calendar of Significant and Memorable Dates in Education*", which has been stably published since 1989 up to the present time. Another one is the quarterly digest, "Education and Pedagogy in Kazakhstan." The "*Calendar of Significant and Memorable Dates in Education*" contains materials about anniversaries, veteran workers, scientists, researchers working on the history of pedagogy and education, and authors of textbooks and teaching aids. The calendar contains a quality search index. In the digest, "*Education and Pedagogy in Kazakhstan*", articles about the current state and strategy of education development in the country and folk pedagogy from Kazakh newspapers and magazines are presented with the greatest completeness.

To organize the flow of secondary scientific information, the RNPB creates and uses its own databases, which are available to users only within the library (in the general and scientific and bibliographic reading rooms, and in the room of the scientific and methodological department):

1. The RNPB electronic catalog has been maintained since 2003 and consists of the *Main database* (over 52,000 records) and the following topical databases: *Pedagogy* (over 10,000 entries), *New acquisitions* (about 16,000 entries), *Abstracts of dissertations* (about 5,000 entries), etc.

2. The databases:

- “Official documents of the Russian Federation” (in Russian);
- “Official documents of the Republic of Kazakhstan” (in Kazakh and Russian);
- “Kazakh teachers” (in Kazakh);
- “Education and Pedagogy in the World” (in Russian);
- “Local studies” (in Kazakh and Russian languages);
- “Quotes” (in Kazakh and Russian).

The databases are used by both bibliographers and users of scientific information.

Information about publications in the library collection is available on the RNPB website (<https://rnpb.kz/>) in the form of lists of bibliographic references.

To promote reading, RNPB closely cooperates with 15 educational libraries of universities. These are methodological centers approved by order of the Ministry of Education and Science of the Republic of Kazakhstan. These include:

The Information and Library Center of Kostanay Regional University named after A. Baitursynov (the methodological center for libraries of educational organizations that provide higher, technical, and vocational education in the Kostanay region);

The Scientific Library of L.N. Gumilyov Eurasian National University (the methodological center for libraries of educational organizations that provide higher, technical and vocational education, in Nur-Sultan and Akmola region);

The Scientific Library of the Kazakh National Research Technical University named after K. Satpayev (the methodological center for libraries of technical educational organizations that provide higher, technical and vocational education, in Almaty and the Almaty region);

The Scientific Library of Abai Kazakh National Pedagogical University (the methodological center for libraries of humanitarian educational organizations that provide higher, technical and vocational education in Almaty and the Almaty region);

The Scientific Library of the Caspian University of Technology and Engineering named after Sh. Yessenov (the methodological center for libraries of educational organizations that provide higher, technical, and vocational education in the Mangystau region);

The Scientific Library of the Aktobe Regional University named after K. Zhubanov (the methodological center for libraries of educational organizations that provide higher, technical, and vocational education in the Aktobe region);

The Scientific Library of the Atyrau University named after Kh. Dosmukhamedov (the methodological center for libraries of educational organizations that provide higher, technical, and vocational education in the Atyrau region);

The Scientific Library of the East Kazakhstan University named after S. Amanzholov (the methodological center for libraries of educational organizations that provide higher, technical, and vocational education in the East Kazakhstan region);

The Scientific Library of the West Kazakhstan University named after M. Utemisov (the methodological center for libraries of educational organizations, giving higher, technical, and vocational education in the West Kazakhstan region);

The Scientific Library of the Karaganda University named after E.A. Buketov (the methodological center for libraries of educational organizations that provide higher, technical, and vocational education, in the Karaganda region);

The Scientific Library of the Kyzylorda University named after Korkyt-Ata (the methodological center for libraries of educational organizations that provide higher, technical, and vocational education in the Kyzylorda region);

The Scientific Library of the North Kazakhstan University named after M. Kozybayev (the methodological center for libraries of educational organizations that provide higher, technical, and vocational education in the North Kazakhstan region);

The Scientific Library of the Taraz Regional University named after M.Kh. Dulati (the methodological center for libraries of educational organizations that provide higher, technical, and vocational education in the Zhambyl region);

The Educational and Information Center of the South Kazakhstan University named after M. Auezov (the methodological center for libraries of educational organizations that provide higher, technical, and vocational education in the South Kazakhstan region);

The Library named after S.B. Beisembayev of Toraigyrov University (the methodological center for libraries of educational organizations that provide higher, technical, and vocational education in Pavlodar region).

These libraries provide methodological assistance to college libraries, publish bibliographic indexes dedicated to famous figures of culture and education, and supplement the subject matter and range of RNPB bibliographic products.

The Scientific Library of the East Kazakhstan University named after Sarsen Amanzholov (Ust-Kamenogorsk city) has published bio-bibliographic indexes such as *“F.R. Akhmetzhanova. Great happiness is to create ...”* (compiled by T.V Ustinova, editor-in-chief F.R. Akhmetzhanova) (2012) and *“Poltoranin I.A. Scientific works”* (compiled by TV Ustinova) (2017). The South Kazakhstan State University (SKSU) named after M. Auezov posted on its website the recommendatory bibliographic index, *“Singer of the People’s Fate”* dedicated to Mukhtar Auezov, promoting the best methodological working-outs of college libraries of the subordinate network. The SKSU Scientific Library also maintains a database of personalities and collects all the materials related to the name of the outstanding Kazakh writer, whose name this university is proud of.

Kazakhstani university libraries’ electronic educational resources are available on the Internet not only on their websites, but also in the Republican Interuniversity Electronic Library (RMEB), which clearly embodies the commonwealth of academic libraries in Kazakhstan headed by RNPB. RMEB integrates the resources on the platform of the Kazakhstan Library and Information System (KABIS). RMEB is available on the Internet at: <http://rmebrk.kz/>

The RMEB structure includes five sections: electronic resources (full-text educational materials of Kazakhstani university libraries), a full-text database of scientific periodicals of Kazakhstani universities, video lectures, open access information resources, and multimedia publications of RMEB’s own generation.

In order to further improve the quality of bibliographic services, RNPB plans to fill gaps in the range of bibliographic products in the near future. The expected innovations include:

- Reprinting with additions and amendments of the recommendatory bibliographic indexes, “Preschool Preparation of Children and Primary School: the Education Process” (to help kindergarten teachers, primary school teachers, employees of the education system and libraries) (Almaty, 2004), and “Names returned to the Fatherland. Repressed Figures of Education” (Almaty, 2007);
- Preparing a new bibliographic index to help higher education;
- Preparing the publication of a new bibliographic index on such an urgent topic such as “Technology of Distance Learning”, and lastly,
- Popularizing RNPB bibliographic products on social networks, Facebook in particular.