



INDIVIDUAL METHODOLOGICAL METHODS AND FORMS OF DEVELOPING STUDENTS' COMPETENCE IN SAFELY SEARCHING FOR INFORMATION IN ACADEMIC LYCEUMS

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**Annotation:** *This article presents, analyses and expresses personal views on the scientific theoretical substantiation of safe information search skills of academic lyceum students, information systems, their forms, and practical methodological aspects of ensuring information security.*

**Keywords:** *academic lyceum students, information, information security, information system, specificity of information search, methodological support, information forms, scientific and theoretical substantiation, information use, personal attitude.*

In the scientific views of Y.M. Vishnyakov, “The goal of an information retrieval system is to minimize the time it takes for the user to find the information they need, or in other words, to provide the information necessary to satisfy the user’s query”<sup>91</sup>.

D. M. Christopher states that “Information retrieval is the process of finding material, which may be in the form of a document, of an unstructured nature, that provides the desired information”<sup>92</sup>.

According to M. Kh. Abdurakhmanov, “If information security is defined, it should reflect the following: the state and its institutions, the state and society; the situations and laws that pose a threat and danger to information resources, methods, mechanisms, means and methods of protection against them, and the restoration of damaged information systems; the directions of ensuring information security of people, society and the state, interconnected with the activities of society, technology, natural and ecological environment; ensuring general literacy of the population on information security; the importance of scientific-practical-methodological foundations that provide solutions to the problem of information security”<sup>93</sup>.

The development of academic lyceum students' competence in safe information search is proportional to the information environment, technical means, and specific needs, because for any information to be safe, an academic lyceum student must have the culture and skills to use information correctly.

<sup>91</sup> Вишняков Ю.М. Системное программирование: Конечные распознаватели / Вишняков Ю.М.: Учебное пособие. – Таганрог: ТРТИ, 1991. – 74 с.

<sup>92</sup> Маннинг Кристофер Д. Введение в информационный поиск / Маннинг Кристофер Д., Рагхаван Прабхакар, Шютце Хайнрих: Пер. с англ. – М.: ООО «И.Д. Вильямс», 2011. 528 с.

<sup>93</sup> Abduraxmanov M. X. Elektron ta’lim muhitida talabalarda axborot xavfsizligining didaktik ta’minotini takomillashtirish. Ped.fan.fal.dok. (PhD) Diss ...Samarqand. 2023. B.14





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The academic lyceum determines the effectiveness of the student's ability to identify the cultural quality of information systems, their level of technical performance, and the ability to identify information protection options and tools in the process of safely searching for information.

Information search engines are websites that provide the ability to search for information on the Internet.

- Today, computers and the Internet are viewed primarily as entertainment tools by young people.
- Internet resources are diverse. They contain both useful and harmful information.
- Information search engines on the Internet have the ability to search for arbitrary information requested within Internet resources, because such search engines perform searches by keywords.
- Whatever information is entered by the user, it searches for information that matches that information.
- It is important to remember that not all information is useful, accurate, or true.
- It is advisable to use information search engines only for correct and useful purposes.
- It is advisable to avoid using and distributing various kinds of harmful information.

In academic lyceums, the results of developing students' competence in safe information search are activated in professional activities. The advantages of space and technology play an important role in this. "In the process of continuous professional development organized in educational institutions, in order to achieve the formation and development of professional and personal qualities in the subjects of the educational process, special attention should be paid to the following in this process: Analyze and evaluate their own activities, taking into account new social requirements for the activities of educational institutions. In this way, the teacher identifies conflicts, misunderstandings, and directions for self-development between the goals and means of their activities, goals and results, and understands the need for it.

"A change in the desire to understand concepts and innovations in the field of professional activity. This involves the renewal of teachers' knowledge, skills and qualifications, the development of their spiritual and cultural potential, and the exchange of information, in which concepts in the field of professional activity change, and personal changes occur"<sup>94</sup>. In academic lyceums, the concepts, terms, content of activities, and form of the process related to the development of students' safe information search competence are characterized by the information view.

In academic lyceums, the process of developing students' competence in safe information retrieval requires a sequence of self-development and personal and professional maturity. Consequently, information security and safe information retrieval

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<sup>94</sup> Турғунов С.Т. ва бошқалар. Ўқитувчиларнинг касбий маҳорат ва компетентлигини ривожлантириш. –Т.: Сано-стандарт, 2012. –172 б.





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are oriented towards a profession based on personal activity. "...the components of personal and professional self-development correspond to a logical activity scheme in the following sequence: forming internal motivation and designing the process of self-development; performing actions in accordance with the individual professional development trajectory; reflecting and implementing corrective actions based on the results of the personal and professional self-development process"<sup>95</sup>. Safe information seeking determines supply and demand as a result of the reader's actions, aspirations, informed worldview, and axiomatic consciousness.

At the same time, in academic lyceums, the development of students' competence in safe information search, based on its criteria, indicators, and didactic and pedagogical capabilities, directly increases the knowledge of the participant in the process. In his research on identifying the most important characteristics of vocationally oriented technologies in higher pedagogical schools, T.A. Dmitrenko developed the following criteria: efficiency; profitability; ergonomics; creating a high motivation for studying the subject; using the latest achievements of didactics; increasing the information capacity of educational content; developing general educational skills; educational and methodological support that ensures high mental activity of students<sup>96</sup>, - he emphasized.

Therefore, in academic lyceums, the development of students' competence in safe information search increases the information skills of educational subjects, skills in working with information, and the component of storing and protecting information.

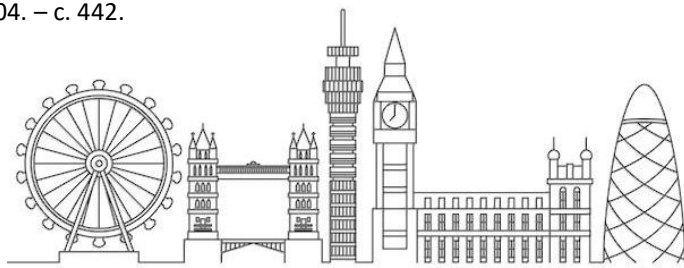
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<sup>95</sup> Ушаков А.А. Личностно-профессиональное саморазвитие педагога в условиях интегративной образовательной среды: теория и технология: монография. – М.: Мир науки, 2020. – Сетевое издание. Режим доступа: <https://izd-mn.com/PDF/59MNNPM20>.

<sup>96</sup>Дмитренко Т.А. Профессионально-ориентированные технологии обучения в системе высшего педагогического образования: дисс. ... док. пед. наук. 2004. – с. 442.





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