

Annotation

dissertations of PhD student of the specialty 6D010300 - Pedagogy and psychology Nakypova Gulnur Kabyltayevna on the topic "Formation of professional competence of master students based on their independent work"

Research topic: «Formation of professional competence of master students based on their independent work»

The purpose of the study: to identify theoretical and methodological foundations and develop a methodology for the formation of master students professional competence based on the independent work, and to prove its effectiveness through practical and experimental work.

Research objectives:

- To determine the theoretical and methodological foundations for the formation of master's students' professional competence through independent work;
- To clarify the content and structure of the concepts of "independent work," "independent work of master's students," "professional competence," and "the formation of master's students' professional competence";
- To identify the pedagogical conditions for the formation of master's students' professional competence through their independent work;
- To develop a structural and content-based model for the formation of master's students' professional competence through independent work;
- To develop a methodology for the formation of master's students' professional competence through independent work, experimentally verify its practical significance, and propose scientific and methodological recommendations.

Research methods

- *theoretical*: comparative analysis of philosophical, psychological, pedagogical, and andragogical literature on the research problem, compilation, content analysis, association, structuring, clarification;
- *empirical*: survey, pedagogical observation, pedagogical and psychological diagnostics, modeling, comparative analysis;
- processing the results from *a mathematical and statistical* point of view (with numerical, percentage indicators).

Basic principles:

- The formation of master's students' professional competence through independent work is ensured by analyzing the theoretical and methodological foundations from philosophical, psychological, and scientific-pedagogical perspectives, as well as by organizing the methodological framework of the research through the interrelation of systemic-content, personality-oriented, competency-based, synergetic, and acmeological approaches;
- The following concepts have been clarified: "independent work" – an independent activity that ensures professional development through various types of motivation; "independent work of master's students" – a trajectory of scientific and pedagogical activity specially organized within the "teacher – academic supervisor

– master’s student” triad, aimed at solving problems and introducing positive changes into the scientific and pedagogical activities of master’s students; “professional competence” – a set of an individual’s abilities for self-development; “the formation of master’s students’ professional competence” – a multifunctional process implemented through scientific and pedagogical activities;

- It has been scientifically substantiated that the effectiveness of the process of forming master’s students’ professional competence depends on the comprehensive identification and systematic implementation of pedagogical conditions within the didactic, content-pedagogical, and organizational-pedagogical aspects of the educational process. These conditions are aimed at ensuring the unity of theoretical knowledge and practical activity, organizing a system of professionally oriented tasks, effectively structuring the content of independent work, and coordinating the educational process at the institutional level;

- The structural and content-based model for the formation of master’s students’ professional competence through independent work includes motivational-value, cognitive-activity, and reflective-evaluative components; corresponding criteria and indicators implemented at high, medium, and low levels have been identified;

- It has been substantiated that the process of forming master’s students’ professional competence is directly connected with the scientific organization of their independent educational and research activities. It has been experimentally proven that the elective course “Scientific Foundations for the Formation of Personal Professional Competence through Independent Work,” the annual scientific-pedagogical studio program for master’s students “Hour of Science,” as well as the teaching and methodological manual “Organization of Master’s Students’ Independent Work,” contribute to the effective development of professional competence through their content and organizational capabilities.

Description of the main results of the study:

- The theoretical and methodological foundations for the formation of master’s students’ professional competence through independent work have been identified in philosophical, psychological, and pedagogical aspects;

- The content and structure of the concepts of “independent work,” “independent work of master’s students,” “professional competence,” and “the formation of master’s students’ professional competence” have been clarified;

- The pedagogical conditions for the formation of master’s students’ professional competence through independent work have been determined;

- A structural and content-based model for the formation of master’s students’ professional competence through independent work has been developed;

- A methodology for the formation of master’s students’ professional competence through independent work has been developed, its effectiveness has been experimentally verified, and scientific and methodological recommendations have been provided.

Novelty and significance justification of the obtained results :

Result 1 – The theoretical and methodological foundations for the formation of master's students' professional competence through independent work have been identified in philosophical, psychological, and pedagogical aspects.

Result 2 – The content and structure of the concepts “independent work,” “independent work of master's students,” “professional competence,” and “the formation of master's students' professional competence” have been clarified.

Result 3 – The pedagogical conditions for the formation of master's students' professional competence through independent work have been determined.

Result 4 – A structural and content-based model for the formation of master's students' professional competence through independent work has been developed.

Result 5 – A methodology for the formation of master's students' professional competence through independent work has been developed, its effectiveness has been experimentally verified, and scientific and methodological recommendations have been provided.

Compliance of the research work with the directions of development in science or state programs:

According to the Article 51 of the Law of the Republic of Kazakhstan "On Education" (Article 51, paragraph 3): "The rights, duties and responsibilities of a teacher carrying out professional activities in a higher and or postgraduate educational organization" states: "A teacher carrying out professional activities in a higher and or postgraduate educational organization should: acquire relevant theoretical and practical knowledge and teaching skills in the field of his professional competence; develop students' life skills, competence, independent work, and creative abilities; constantly improve his professional skills, intellectual, creative and scientific level". Independent fulfillment of professional tasks set for postgraduate students in higher education, scientific and cognitive activities, and development of knowledge in scientific and pedagogical direction are mentioned as well.

According to "Professional standard of a teacher" in "Higher and postgraduate education notions as "knowledge", "business and skills", "personal and professional competencies", indicate independence, responsibility, and the complexity of a teacher's work: 1) notions, such as "business and skills" indicate the degree of independence; 2) "personal and professional competencies" indicate the degree of responsibility; 3) "knowledge" indicates the degree of complexity of a teaching profession, the complexity of a teacher's work is associated with his "human-human" specialty. "Personal and professional competencies" is of great importance in the professional standard, and is given in the degree of responsibility, since postgraduate education provides Master students' progressiveness to achieve high professionalism, personal and social success.

The indicator "personal and professional competence" in the professional standard is of great importance in terms of the degree of responsibility, since it implies progressiveness, which leads undergraduates to high professionalism, personal and social success in postgraduate education. In paragraph 1 of Article 9 of the Law of the Republic of Kazakhstan "On Science" (as amended and amended on 30.06.2022 No. 130-VII): "the main type of activity carried out by an organization

of higher and (or) postgraduate education, along with education, is: scientific, scientific, technical and innovative activities, as well as conducting research and development work". These types of activities allow each specialist who has completed a master's degree to be flexible to the in-demand labor market, possess leadership qualities and continuous self-development, and measure the criteria of the style of scientific research in the context of professional competence.

Description of the PhD candidate's contribution to the preparation of each publication.

According to the content of the dissertation research work 16 scientific articles and 1 teaching aid were published .

2 articles have been published in journals included in the Web of Science Core Collection or Scopus database:

1. Publication included in the Scopus database "Formation of postgraduate student's professional competences through independent work». Birlesik Dunya Yenilik Arastirma ve Yayıncılık Merkezi. Cypriot Journal of Educational Science. Volume 17 , Issue 6, (2022) 1888-1900 <https://doi.org/10.18844/cjes.v17i6.7544> (G. K. Nakypova, Sh. Maigeldiyeva, M. Makasheva, G. Saudabayeva, M. Dzhanbubekova, M. Koishibaev). This article has conducted worldwide research to determine whether undergraduates in postgraduate education are successfully working to achieve their career goals and develop professional competence based on independent work. The contribution of PhD candidate in the article comprises 60%.

2. «Professional competence establishment for postgraduate education professionals through self-study» Scientific Herald of Uzhhorod University. Series "Physics" – 2024. [Issue 56 – P. 2071-2080](https://doi.org/10.54919/physics/56.2024.207wk1)

<https://doi.org/10.54919/physics/56.2024.207wk1>(G. K. Nakypova, Dina Zharylgapova, Gulbarshyn Yernazarova, Lazzat Zhamansarieva, Raisa Zhukashova). This article presents global research to determine whether undergraduates in postgraduate education are successfully working to achieve their career goals and develop professional competence based on independent work. The share of the doctoral student's participation in writing the article is 60%.

6 articles were published in publications recommended by the Committee for Quality Assurance in the Field of Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan:

3. "Professional competence: meaning and basic principles". "Khabarshy" , Kazakh State Women's Pedagogical University No. 1 (77), 2019. pp. 208-213. The article discusses the basic principles of the formation of professional competence of undergraduates in the postgraduate education system based on independent work.

The contribution of PhD candidate in the article comprises 100%.

4. "Professional Master's training in the system of higher pedagogical education". Vestnik, Academy of Sciences of Kazakhstan, No. 1, 2020. pp. 131-137 (Saparkyzy Zh.). The article considers the importance of determining professional competence based on independent work in the preparation of undergraduates in the scientific and pedagogical field. The contribution of PhD candidate in the article comprises 90%.

5. "Formation Master students' professional competence: main issues and concepts". Vestnik "Reports of the Kazakh Academy of Education" Astana, 2019.- №1. -133-138 pp. The article concludes that professional competence is the teacher's ability to solve professional problems and tasks in a professional environment. The contribution of PhD candidate in the article comprises 100%.

6. "Requirements for primary school teachers in organizing independent work". "Science and Life of Kazakhstan / Nauka i zhizn in Kazahstan" №11 (2) 2019. Almaty. pp. 163-167. The content of the article analyzes independent educational work as an independent educational activity of a student at a certain level of his search, self-control, transition from easy to complex to problem formulation and its solution. The contribution of PhD candidate in the article comprises 100%.

7. "Development of cognitive activity among pedagogical universities students". Khabarsy, Pavlodar University named after Toraigyrov (Pedagogical series) No. 1, 2022. pp. 305-312 (L.D. Zhamansarieva, Zh.T. Baimaganbetova, A.U. Kereybayeva). In matters of the development of higher professional education, the knowledge and skills transferred to bachelors are outlined. The contribution of PhD candidate in the article comprises 70%.

8. "Independent work in postgraduate education as a basis for Master students' formation of professional competence". Khabarshy, Abai Kazakh National University, "Pedagogical Sciences", No. 1 (81), 2024, pp. 154-167 (M.Zh. Sultanbek, A.Marshalkhan). The article analyzes the scientific and pedagogical activities of undergraduates and methodological approaches to solving problems in the triad "teacher-scientific consultant-graduate student". The contribution of PhD candidate in the article comprises 80%.

2 articles have been published in foreign publications.

9. "On the issue of the formation of professional competence in future teachers while studying in Master's degree". "With proceedings of the international scientific and practical conference "theoretical and practical aspects of modern scientific research" (Koyshibayev M., Kamzaev A.K., Azbergenov A.L.) The article describes the master's student's ability to independently manage professional, scientific, practical and cognitive activities. The contribution of PhD candidate in the article comprises 60%.

10. «Teacher's activity to enhance students' cognitive activity through independent work» "Innovation Management and Technology in the Era of Globalization": Materials of the V International Scientific-Practical Conference. In two volumes. Volume II – Alexandria, Egypt. 2018. - B. 123-129. The article presents ways of forming students' competencies as a result of the development of subject knowledge, skills, thinking systems, which they master through self-performed work. The share of the doctoral student's participation in writing the article is -100%.

There is 1 article published in the publications of the near abroad.

11. "Formation of professional competence of undergraduates based on independent work". Methodological guidelines for the development of modern scientific and didactic thought. Collection of scientific works of the All-Russian Network Scientific Conference 2018. 247-250 p. The article analyzes the tendency

towards a clearer understanding of the value of personality and its relation to a specific goal. The contribution of PhD candidate in the article comprises 100%.

5 articles have been published in the materials of the international scientific and practical conference organized in the Republic of Kazakhstan:

12. "Professional Master's degree in postgraduate education" "Science and education in the modern world: challenges of the XXI century"// X International Scientific and Practical Conference. - Nur-Sultan, 2022, pp. 24-28. The article analyzes the system of postgraduate education, examines the knowledge, skills, and abilities transferred to undergraduates. The share of the doctoral student's participation in writing the article is -100%.

13. "The essence of environmental education and upbringing during the lesson" Modernization of preschool and primary education: experience and problems"// Proceedings of the international scientific and methodological online conference. - Kyzylorda, 2022. - pp. 190-195. The article presents ways to organize independent work on environmental education and upbringing of students at the university. The share of the doctoral student's participation in writing the article is 100%.

14. "Pedagogical learning technologies used to enhance the cognitive activity of younger schoolchildren based on independent work" Modernization of preschool and primary education: experience and challenges" // Materials of the international scientific and methodological online conference. – Kyzylorda, 2022. - pp. 388-334. (Abuova A., Bekmurzayeva R.) The article discusses special scientifically based forms, methods, techniques and means of increasing the cognitive activity of primary school students in independent work on pedagogical technology. The share of the doctoral student's participation in writing the article is 80%.

15. " The content and structure of the formation of professional competencies of undergraduates" "actual problems of modern psychological and pedagogical education in the digital space: experience and prospects"// Proceedings of the international scientific and practical conference. - Kyzylorda, 2024. - pp. 338-344. The article presents ways to find and apply feedback from future specialists, their self-confidence, and self-control. The share of the doctoral student's participation in writing the article is -100%.

16. "The importance of independent work in the formation of professional competence of future teachers" materials of the Republican scientific and practical conference "Problems and prospects of continuing professional education", dedicated to the memory and 70th anniversary of Doctor of Pedagogical Sciences, Professor B.Momynbayev. Kyzylorda, 2016. pp.178-180. (Maigeldieva Sh.M.) The article explains the many emotions that teachers show in their activities, as well as flexibility and willingness to learn independently. The share of the doctoral student's participation in writing the article is 90%.

17. Organization of independent work of undergraduates. Educational and methodical manual. Almaty, 2020. - 74 P. The textbook presents the content and structure and methodology of the formation of professional competence of undergraduates, the content of its implementation. The share of the doctoral student is 100%.