

## Annotation

**dissertations of PhD student of the specialty 6D010300 (8D01101) - 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 of the formation of professional competence of undergraduates on the basis of independent work;;
- "independent work", "independent work of undergraduates" and "professional competencies of undergraduates";
- develop a structural and content model of the formation of professional competence based on the master students independent work;
- to develop a methodology for the formation of professional competence based on the independent work of master students and to test its effectiveness in practice, and to provide 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:**

- philosophical, psychological, scientific and pedagogical justification; principle of system, principle of personality, principle of competence, synergetic principle and acmeological principle are described;
- "independent work - independent activity that ensures professional development through motivation"; "Master students' independent work - a trajectory of scientific and pedagogical actions organized in a special way by a student, aimed at solving problems in the triad "a teacher- a scientific supervisor-a Master student" and introducing positive changes in the scientific and pedagogical activities"; "professional competence" - a complex of abilities for person's self-development"; it is specified that "the formation of professional competence of undergraduates is a multifunctional process carried out through scientific and pedagogical activities";
- the structural model of the formation of professional competence of undergraduates on the basis of independent work forms a set of motivational-value, cognitive-activity, reflexive-evaluative components and is implemented in accordance with high, medium and low levels, criteria and indicators.;

- Methodology: Elective course program "Scientific foundations of the formation of person's professional competence through an independent work"; annual project-program of the scientific and pedagogical studio for undergraduates "Hour of Science".

**Description of the main results of the study:**

- based on the independent work of undergraduates, the theoretical and methodological foundations of the formation of professional competence are determined;
- the content, structure and function of the concepts of "professional competence", "independent work" and "professional competence of master's students" are clarified;
- the content, structure and function of the concepts "professional competence", "independent work" and "Master's students professional competence" are clarified;
- a structural and content model for the formation of professional competence in postgraduate education is being developed based on the master students independent work ;
- a methodology for the formation of professional competence in postgraduate education based on the master students independent work is developed and its effectiveness is tested in practice, and scientific and methodological recommendations are provided.

**Novelty and significance justification of the obtained results :**

*Result 1 is new* - the theoretical and methodological foundations of the formation of professional competence of undergraduates on the basis of independent work are determined.

*Result 2 is new* - content, structure and function of the concepts "professional competence", "independent work" and "Master students' professional competence" have been clarified.

*Result 3 new-* structural model for the formation of professional competence based on master students independent work has been developed.

*Result 4 new* - methodological complex for the formation of master's students' professional competence based on their independent works: an elective course program entitled "Scientific foundations of the formation of a person's professional competence through independent work"; an annual project-program of the scientific and pedagogical studio for undergraduates entitled "Hour of Science"; an educational and methodological aid entitled "Organization of undergraduates' independent work" has been prepared.

**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 Yayincilik 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> (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 Kazakhstan" №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" (Koyshebayev 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%.