

## **SPECIALITY PROGRAMME**

### **Educational programme of the Specialty 6M010200 – Pedagogy and Methods of Primary Education Master’s Degree**

#### ***Purposes of specialty 6M010200 – Pedagogy and Methods of Primary Education***

Main purpose of specialty 6M010200 – *Pedagogy and Methods of Primary Education* is:

- to train highly qualified in-demand teaching staff;
- evolving systematic knowledge in primary education and using innovative strategies in teaching and learning the general regularity;
- developing the specific and key competencies of postgraduate students assuming social and civil responsibilities and are able to fulfill his/her professional duties;
- Postgraduates’ learning the basic elements of research and experimentative methods of observation and analysis of learning processes and evidence of levels in primary, vocational and higher education.
- developing humanistic and socio-personal values in the context of scientific thinking and ideology.

#### **1. Qualification and Position List**

Graduate of this curriculum is awarded Master’s degree in Education of specialty 6M010200 –Pedagogy and Methods of Primary Education.

Master in Education without requiring the length of work as a high-level specialist without grade in accordance with Model qualification characteristics of teaching staff positions and persons equated to them approved by decree of the Ministry of Education and Science of the Republic of Kazakhstan from 13<sup>th</sup> July 2009 N338 with alterations and additions from 9<sup>th</sup> June 2011 N241, 27<sup>th</sup> December 2013 N512, can be appointed in the following positions:

- Lecturer (assistant);

In accordance with the Qualification Occupational Handbook of Managers, Specialists and other employees, approved by decree of the Ministry of Labour and Social Protection of Republic of Kazakhstan from 21<sup>st</sup> May 2012 N201-p-m:

- Junior research fellow (if accompanied by recommendations of higher education councils (faculties) to the position of a junior research fellow can be assigned graduates by way of exception, of higher education institutions (master’s degree) received a work experience during the study.

#### **2. Qualification Characteristics for Graduate of Curriculum**

##### ***2.1 Professional Field***

Master in Education of specialty 6M010200 – Pedagogy and Methods of Primary Education fulfills his/her professional duties in education. Qualification level by NQF is 7.

##### ***2.2 Objectives of professional activity***

Objectives of professional activity of a Master in Education of specialty 6M010200 – Pedagogy and Methods of Primary Education are:

- Organising a secondary education of all types regardless the ownership and subordination;

- Organising a vocational education.
- Higher education institutions;
- Research institutions;
- Centers of Excellence;
- Authorized and local education authorities.

### **2.3 Subject of professional activity**

Subjects of professional activity of a Master in Education of specialty 6M010200 – Pedagogy and Methods of Primary Education are:

- Organising teaching and learning process with using innovative pedagogical strategies and implements;
- Organising research within teaching and learning process of HEI, organising secondary education, organising a vocational education;
- Function of authorized and local education authorities in supporting innovative processes educational management.

### **2.4 Types of professional activity**

Master in Education of specialty 6M010200 – Pedagogy and Methods of Primary Education can fulfill the following types of professional duties:

- Educational (pedagogical);
- Teaching and learning;
- Educational and technological;
- Social and pedagogical;
- Research;
- Management.

### **2.5 Functions of professional activity**

Functions of professional activity of a Master in Education of specialty 6M010200 – Pedagogy and Methods of Primary Education are:

- Educational;
- Pedagogical;
- Career-oriented;
- Research;
- Hygienic.

### **2.6 Common tasks of professional activity**

Common tasks of professional activity of a Master in Education of specialty 6M010200 – Pedagogy and Methods of Primary Education fit in with types of professional activity:

#### **✓ In educational field:**

- Projecting and organising teaching and learning process in secondary and vocational education settings, higher education institutions, assessment, updating and prediction of teaching outcomes;
- Organising a subjective activity of students in secondary and vocational settings, higher education institutions;
- Studying, generalizing, and spreading an innovative experience in education.

✓ ***In teaching and learning field:***

- Managing the process of developing the personality of students in secondary and vocational settings, higher education institutions;
- Projecting and arranging educational work in accordance with principles, legitimacy and educational systems of pedagogical process;
- Reasonable choice of diverse forms and approaches in teaching and learning primary, secondary, college and university students;
- Evolving social and moral values underpinned by social opinion, customs, traditions, regulations and applying them in professional field;
- Abidance by rules of business ethics, learning ethical and legal rules of behavior;

✓ ***In educational and technical field:***

- Reasonable choice and using innovative teaching strategies;
- Organising of a search and information processing data on a subjective activity of students and on teaching and learning process with using ICT;
- Ability to apply in practice gained skills in the field of professional and socio-humanitarian courses.

✓ ***In social and pedagogical field:***

- Projecting and arranging appropriate facilities and providing pedagogical support in terms of student's development;
- Developing an objective assessment of personal aspirations level, standards of business ethics, ethical and legal rules of behavior;
- Obtaining ways of physical, spiritual and intellectual development, evolving a psychological competence, thinking culture and behavior.

✓ ***In research:***

- Planning and organising research and being familiar with ways of research work;
- Planning and organising a literature review;
- Planning and organising of studying and generalizing an innovative and pedagogical experience in primary education;
- Planning and organising teaching experiments with implementing its findings in teaching and learning process;
- Undertaking research of core courses in different research and educational settings;
- Ability creatively to use theory and technology achievements, methods of teaching in primary school and finalize findings of research;
- Ability to assess without fear findings of research, apply methods of pedagogical research processing, predict possible positive and negative outcomes of reviewing;

✓ ***In management:***

- Planning and organising a content and procedural component of teaching and learning process (course content of primary, vocational, higher education; selection of material, methods, approaches and implements for a meaningful function and organization of developmental environment and use it as a way of development of students' personality in diverse levels of learning);
- Managing functions in government authorities of diverse levels of learning.

***2.7 Content of professional activity***

Content of professional activity of a Master in Education of specialty 6M010200 – Pedagogy and Methods of Primary Education:

- Quality organization and management of teaching and learning process;
- Targeting on student's active learning the ways of cognitive activities students, personal-oriented education;
- Applying student-oriented approach in teaching and learning in order to provide opportunities of personal development and fulfillment of

students;

- Applying a wide range of teaching strategies, providing appropriate facilities for personal development and education of students;
- Fulfilling professional, research and production functions in accordance with current requirements.

### **3. Learning outcomes (common competencies)**

Learning outcomes of a Master in Education of specialty 6M010200 – Pedagogy and Methods of Primary Education (7<sup>th</sup> qualification level of NQF) in compliance with Dublin descriptors of second level of learning assume abilities:

- To demonstrate evaluative knowledge and understanding obtained in higher education level that are a basis or possibility of an ingenious development or presenting an idea, often in the context of research;
- Application of knowledge, understanding and skills of decision making in different cases in the context of wider (interdisciplinary) areas related field of study;
- Integrating knowledge, overcome difficulties and making decisions on a bases of a limited information recognizing ethical and social responsibilities for implementing these decisions and knowledge;
- Clearly report conclusions, knowledge and rational to the specialists and non-specialists;
- Developing life-long learning.

*Common competencies* a Master in Education of specialty 6M010200 – Pedagogy and Methods of Primary Education are developed under key (requirements to general education, social and ethical, economical and management competencies) and specific competencies.

#### **3.1 Key competencies**

##### ***Requirements to the key competencies of a graduate of research and pedagogical master level:***

##### ***1) to know about:***

- Role of science and education in social life;
- Current tendencies in developing the research cognition;
- Relevant methodological and philosophical issues of natural, social and economic studies;
- Professional competencies of higher education lecturer;
- Contradictions and social and economic consequences of globalization.

##### ***2) to be familiar with:***

- Methodology of research cognition;
- Principles and structure of organising research;
- Psychology of cognitive activities of students in learning;
- Psychological techniques and implements of increasing the efficiency and quality of learning.

##### ***3) to be able to:***

- Apply obtained knowledge in terms of ingenious development and use ideas in the context of research;

- Critically analyze existing concepts, theories and approaches to the analysis of processes;
- Integrate knowledge obtained within different courses in order to make decisions in research in unfamiliar conditions;
- Through the knowledge integration making conclusions and making decisions based on incomplete or limited data;
- Apply skills of pedagogy and psychology of higher education in professional field;
- Use interactive methods of teaching;
- Conduct an informative-analytical and informative-literature work by using modern informative technologies;
- Think critically and creatively make decisions on contemporary issues;
- To be proficient in English and other foreign languages in order to undertake research and teach specific courses at universities;
- Finalize findings of research and dissertation, research paper, report etc.

**4) to have skills of:**

- Research, decision- making on research process;
- Fulfilling teaching duties in accordance with Bologna process;
- Methods of teaching professional courses;
- Applying current ICT in teaching;
- Professional and intercultural communication;
- Public speaking, correct and logic reproducing thoughts in written and oral ways;
- Expanding and deepening knowledge required for daily professional duties and continuing education in doctoral degree.

**5) to be competent in:**

- Methodology of research;
- Research and teaching area of HEI;
- Current teaching strategies;
- Leading research projects and research in professional field;
- Refining and updating knowledge and broadening professional skills.

**3.2 Specific competencies**

✓ **A – knowledge and understanding:**

- A1 – knowing aims and objectives of research;
- A2 – knowing theoretical and methodological bases of primary education;
- A3 – knowing innovative strategies and current approaches in primary education;
- A4 – knowing fundamentals of teaching pedagogical and methodical courses;
- A5 – knowing issues of primary education in different areas of primary school;
- A6 – knowing about fundamental research and practical innovative implementations aimed at complex solutions in diverse areas of education;

A7 – knowing main categories of science allowing to analyze current issues of pedagogy;

A8 – knowing theoretical bases innovative teaching strategies in primary education.

✓ ***B – applying knowledge and understanding:***

B1 – applying new conceptual ideas and tendencies in pedagogy development in the context of modern paradigm of education;

B2 – having skills of computer modeling and methods of theoretical analysis the research findings;

B3 – using knowledge of theory and methods of primary education in a variety areas of profession;

B4 – being familiar with methodology of research;

B5 – applying knowledge of interaction of methodological, theoretical and applied levels in pedagogical research;

B6 – conducting assessment of students' development and interaction of different ages by quantitative and qualitative methods of pedagogical and psychological research;

B7 – using basic research concepts in pedagogy and understanding their relation with general issues of developing science and society.

✓ ***C – evolving estimation:***

C1 – innovative way of research and pedagogical thinking and holistic perception of pedagogical actuality;

C2 – independence and initiatives of mind, critical, analytical and assessing skills;

C3 – good understanding of social significance of pedagogical profession, adherence to the principles of professional ethics, improvements of professional and personal qualities of pedagogue;

C4 – abilities to analyze widely and evolve an estimation on primary education quality;

C5 – developing a world view, conscious, activity, independent cognitive, research and creative activity;

C6 – professional and pedagogical consciousness, evolving students' needs in further personal and professional development.

✓ ***D – personal abilities:***

D1 – having professional qualities of pedagogue, techniques of communication, and skills of rhetoric;

D2 – readiness to evolve unique values, making creative decision, tolerance and ability to the pedagogical communication;

D3 – aspiration to develop intellectual, moral, cultural, nature-conformable, communicative and managerial skills;

D4 – aspiration to a high motivation in pedagogical profession, creatively applying of pedagogical innovation, personal development and education;

D5 – ability to understand the regularities of developing research as a cultural phenomenon;

D6 – ability to contribute by a unique way of research broadening horizons of existing knowledge;

D7 – ability of implementing the principles of developing student's healthy life.

#### **4. Strategies and methods of teaching and learning**

General outcomes of learning in specialty 6M010200 – Pedagogy and Methods of Primary Education (7<sup>th</sup> qualification level of NQF) will be achieved by the following educational actions:

1) *Instructor-led training sessions*: lectures, seminars and practical sessions – are run recognizing innovative teaching approaches, using latest achievements of science, technologies and information systems and in interactive way;

- 2) *Extracurricular session*: independent project of student including supervising and individual counselling;
- 3) Pedagogical and professional placements, working on dissertation.

The content of specialty curriculum allows students to obtain the system of subject, interdisciplinary, psychological, pedagogical and methodological knowledge and to demonstrate knowledge and understanding in the field of geography, pedagogy and psychology, to apply this knowledge and understanding in a professional manner.

Lectures, seminars, discussions and workshops, various kinds of placements throughout the program will provide postgraduates opportunities to develop key and special competencies in the specialty 6M010200-Pedagogy and Methods of Primary Education, in particular the use of theoretical knowledge of the basics of primary education sciences taking into account the specific social and pedagogical conditions, rational and creative use in the teaching and learning process of pedagogical strategies and information sources (media training programs, electronic books, TV, and Internet technologies).

Supervising student's independent work, individual counselling will enable postgraduates to develop educational and research skills. In addition, final year postgraduates are working on a thesis work on their chosen topic under the personal guidance of the supervisor.

### 5. Assessment of learning outcomes

In training postgraduates (7<sup>th</sup> qualification level of NQF) of curriculum in specialty 6M010200 – Pedagogy and Methods of Primary Education envisages a wide range of different forms of monitoring and evaluation of the expected learning outcomes: current and term control (interrogation on sessions, testing on the topics of course, test papers, defense of practical work, coursework, portfolios, discussion, workshops, symposia, etc.), interim certification (tests on sections of courses, final examination, defense of placement reports), final state certification (defense of master's thesis, State interdisciplinary examination).

Assessment methods are designed to develop critical thinking, intellectual, oral and written communication, presentation skills, practical research.

Specialty curriculum includes pedagogical placement that allows postgraduates to learn practice-oriented knowledge and skills in the subject area, the planning and organization of teaching and educational activities, teaching methods of primary education courses in the learning process of innovative educational strategies and pedagogical interaction of a student and teacher etc.

### 6. Matrix of courses and specific competencies

| №  | Courses                                      | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | C5 | C6 | D1 | D2 | D3 | D4 | D5 | D6 | D7 |
|----|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1. | Pedagogy                                     | *  | *  | *  |    |    |    | *  | *  | *  |    |    |    | *  | *  | *  |    |    | *  |    |    |    | *  | *  | *  | *  |    |    |    |
| 2. | Psychology                                   | *  | *  |    |    |    |    | *  | *  | *  |    |    |    | *  | *  | *  | *  | *  |    |    |    | *  |    | *  |    |    |    |    |    |
| 3. | Methodology and Methods of Research          | *  | *  |    |    | *  | *  | *  | *  | *  | *  |    | *  | *  | *  |    | *  | *  | *  |    | *  |    |    |    |    | *  | *  | *  |    |
| 4. | Methods of Mathematical Analysis in Research | *  |    |    |    |    |    | *  |    |    | *  | *  | *  | *  | *  | *  |    |    |    |    | *  |    |    |    |    |    |    | *  |    |
| 5. | Mathematical Statistics in Research          | *  |    |    |    |    |    | *  |    |    | *  | *  | *  | *  | *  | *  |    |    |    |    | *  |    |    |    |    |    |    | *  |    |
| 6. | Research in Primary Education                | *  |    | *  | *  | *  | *  | *  | *  | *  |    | *  | *  | *  |    | *  |    | *  | *  | *  |    | *  |    | *  | *  | *  | *  | *  | *  |





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|---|---|
| <p>✓ <b>A – knowledge and understanding:</b><br/> A1 – knowing aims and objectives of research;<br/> A2 – knowing theoretical and methodological bases of primary education;<br/> A3 – knowing innovative strategies and current approaches in primary education;<br/> A4 – knowing fundamentals of teaching pedagogical and methodical courses;<br/> A5 – knowing issues of primary education in different areas of primary school;<br/> A6 – knowing about fundamental research and practical innovative implementations aimed at complex solutions in diverse areas of education;<br/> A7 – knowing main categories of science allowing to analyze current issues of pedagogy;<br/> A8 – knowing theoretical bases innovative teaching strategies in primary education.</p>  | <p>✓ <b>C – evolving estimation:</b><br/> C1 – innovative way of research and pedagogical thinking and holistic perception of pedagogical actuality;<br/> C2 – independence and initiatives of mind, critical, analytical and assessing skills;<br/> C3 – good understanding of social significance of pedagogical profession, adherence to the principles of professional ethics, improvements of professional and personal qualities of pedagogue;<br/> C4 – abilities to analyze widely and evolve an estimation on primary education quality;<br/> C5 – developing a world view, conscious, activity, independent cognitive, research and creative activity;<br/> C6 – professional and pedagogical consciousness, evolving students’ needs in further personal and professional development.</p>   |
| <p>✓ <b>B – applying knowledge and understanding:</b><br/> B1 – applying new conceptual ideas and tendencies in pedagogy development in the context of modern paradigm of education;<br/> B2 – having skills of computer modeling and methods of theoretical analysis the research findings;<br/> B3 – using knowledge of theory and methods of primary education in a variety areas of profession;<br/> B4 – being familiar with methodology of research;<br/> B5 – applying knowledge of interaction of methodological, theoretical and applied levels in pedagogical research;<br/> B6 – conducting assessment of students’ development and interaction of different ages by quantitative and qualitative methods of pedagogical and psychological research;<br/> B7 – using basic research concepts in pedagogy and understanding their relation with general issues of developing science and society.</p> | <p>✓ <b>D – personal abilities:</b><br/> D1 – having professional qualities of pedagogue, techniques of communication, and skills of rhetoric;<br/> D2 – readiness to evolve unique values, making creative decision, tolerance and ability to the pedagogical communication;<br/> D3 – aspiration to develop intellectual, moral, cultural, nature-conformable, communicative and managerial skills;<br/> D4 – aspiration to a high motivation in pedagogical profession, creatively applying of pedagogical innovation, personal development and education;<br/> D5 – ability to understand the regularities of developing research as a cultural phenomenon;<br/> D6 – ability to contribute by a unique way of research broadening horizons of existing knowledge;<br/> D7 – ability of implementing the principles of developing student’s healthy life.</p> |

Curriculum also includes general educational courses (History and Philosophy of Science, Foreign Language) aimed at developing relevant key competencies of Master in Education of specialty 6M010200 – Pedagogy and Methods of Primary Education, mentioned in 3.1.

**7. Structure and standards of component division 6M011600 – Pedagogy and Methods of Primary Education (length 2 years)**

| <b>№</b> | <b>Types</b>   | <b>Credits</b> | <b>Number of weeks</b> | <b>Total hours</b> |
|----------|--|----------------|------------------------|--------------------|
| 1        | Theoretical part (1:2)   | 42             | 45                     | 1890               |
| 2        | Research project including writing thesis without interruption of theoretical learning (1:7) | 3              | -                      | 360                |
|          | Research project including writing thesis (1:7)  | 4              | 9                      | 480                |
| 3        | Final examination (1:6)  | 4              | 8                      | 420                |
|          | <b>Total :</b>   | <b>53</b>      | <b>62</b>              | <b>3150</b>        |
| 4        | Placement (pedagogical), without interruption of theoretical learning (1:1)                  | 3              | -                      | 90                 |
| 5        | Placement (research) (1:7)   | 3              | 12                     | 360                |
| 6        | Recess   |                | <b>13</b>              |                    |
| 7        | Examination  |                | <b>9</b>               |                    |
|          | <b>Total :</b>   | <b>59</b>      | <b>96</b>              | <b>3600</b>        |

To pursue master's degree in specialty 6M011600 – Pedagogy and Methods of Primary Education, a student has to obtain at least 42 credits of theoretical learning, no less than 6 credits of placement and no less than 7 credits of research project.

Postgraduate obtains along with theoretical learning without interruption of teaching and learning process: 3 credits of Research Project (1 credit per semester) and 3 credits of pedagogical placement.