



1. OPTIONAL COMPONENTS OF THE CYCLE OF CORE COURSES

Optional component 1

Course: Modern means of evaluating learning outcomes

Intensity of the Course: 5 academic credits

Module Code: MMELO 5205

Module Name: Theoretical and organizational foundations of educational quality assessment systems (GAS)

Prerequisites: PVSh 5203. Higher school pedagogy

Purpose: familiarization with modern means of evaluating learning outcomes, theoretical and organizational foundations of educational quality assessment systems.

Short Description: Quality of education, education quality assessment systems (GAS). Internal and external systems of the GAS. The national GAS system of Kazakhstan. Internal systems of the GAS. Theoretical and organizational foundations of GAS systems. Teaching and evaluation as a type of pedagogical activity. Learning outcomes, the concept of measurability of learning outcomes. Testing as a method of evaluating learning outcomes. Classical and modern test theory. Place of testing in internal and external GAS systems. Features of internal assessment in secondary school.

Learning Outcomes in EP (LOP):

LO2 – Presents theoretical and methodological foundations for the development of the science of pedagogy and management psychology in assessing the quality of education.

LO3 – Analyzes modern problems of theory and practice of pedagogical measurements, functional features of modern (operating) tools for external and internal assessment of the quality of education.

LO4 – Designs tools, develops methods for evaluating students' educational achievements.

Learning Outcomes in Course (LOC):

LOC 1 - evaluates learning outcomes as an element of education quality management.

LOC 2 – knows the theoretical foundations of modern methods of evaluating the effectiveness of teaching an academic subject.

LOC 3 – is able to apply modern means of evaluating learning outcomes.

LOC 4 – applies modern methods and technologies for evaluating learning outcomes

Post requisites: NEQAS 5206. **National Education Quality Assessment System**

Optional component 2

Course: Classical and modern test theory

Intensity of the Course: 5 academic credits

Module Code: CMTT 5205-1

Module Name: Theoretical and organizational foundations of educational quality assessment systems (GAS)

Prerequisites: PVSh 5203. Higher school pedagogy

Purpose: mastering by undergraduates the theoretical foundations of classical and modern types of tests, their types and methodological principles.

Short Description: Classical and modern test theory, continuity and its differences. Statistical concepts in testing theory. Introduction to scaling, the process of designing tests. Reliability theory in the context of the classical concept of true evaluation and development of test validity and reliability procedures. Characteristics of test scores and methods of their interpretation.

Learning Outcomes in EP (LOP):



LO3 – Analyzes modern problems of theory and practice of pedagogical measurements, functional features of modern (operating) tools for external and internal assessment of the quality of education.

LO5 – Uses digital technologies to assess the quality of education at universities and schools, organizes and conducts evaluation activities (exams, monitoring, current assessment).

Learning Outcomes in Course (LOC):

LOC 3 - Analyzes modern problems of theory and practice of pedagogical measurements, functional features of modern (operating) tools for external and internal assessment of the quality of education;

LOC 5 - Uses digital technologies to assess the quality of education in universities and schools, organizes and conducts evaluation activities (exams, monitoring, current assessment).

Post requisites: IQASE 5206-1. Internal quality assessment systems in educational institutions

Optional component 3

Course: National system of education quality assessment

Intensity of the Course: 5 academic credits

Module Code: NSOEGA 5206

Module Name: Theoretical and organizational foundations of educational quality assessment systems (GAS)

Prerequisites: PVSh 5203. Higher school pedagogy

Purpose: be able to apply the procedures for assessing the quality of education based on the theoretical and conceptual foundations of the national assessment system, the hierarchical system of educational goals, the taxonomy of cognitive levels.

Short Description: The main trends in the development of the evaluation system in Kazakhstan and abroad. Education quality evaluation system as an integral part of the educational process. Theoretical and methodological basis of the evaluation system, the main methods of developing system of training objectives and assessment tools.

Methods of obtaining objective information about the results and quality of training in accordance with educational standards, methods of measuring the objectivity of evaluation.

Learning Outcomes in EP (LOP):

LO2 – Presents theoretical and methodological foundations for the development of the science of pedagogy and management psychology in assessing the quality of education.

LO3 – Analyzes modern problems of theory and practice of pedagogical measurements, functional features of modern (operating) tools for external and internal assessment of the quality of education.

Learning Outcomes in Course (LOC):

LOC 1 - there is a distinction between the development of approaches to the concept of "assessment", the features of the national system for assessing the quality of education in Kazakhstan and the assessment system abroad;

LOC 2 - scientific substantiation of the norms for assessing students' academic achievements and determining the effectiveness of the hierarchy of criteria in the standards of compulsory education;

LOC 3 - Classification of personal and state goals defined in regulatory documents into strategic, operational, tactical levels, adaptation of cognitive level goals to actions in accordance with SMART requirements

Post requisites: FONEMICS 5207. Features of the organization of national examinations and monitoring, international comparative studies

Optional component 4



Course: Internal quality assessment systems in educational institutions

Intensity of the Course: 5 academic credits

Module Code: IQASE 5206-1.

Module Name: Theoretical and organizational foundations of educational quality assessment systems (GAS)

Prerequisites: PVSh 5203. Higher school pedagogy

Purpose: study of the internal systems of OKO functioning in the education system of Kazakhstan.

Short Description: Diversity of methods of internal evaluation of learning outcomes. Functional features of internal assessment systems in universities: Univer, Platonus systems, etc. Built-in assessment subsystems in distance learning systems. Internal assessment in secondary schools. Formative and summative assessment, section and quarter assessment systems (SOBR, SOC). Methods of developing tasks for internal evaluation. Final assessment in junior, primary and secondary schools.

Learning Outcomes in EP (LOP):

LO 3 - Analyzes modern problems of theory and practice of pedagogical measurements, functional features of modern (operating) tools for external and internal assessment of the quality of education.

LO 4 – Designs tools, develops methods for evaluating students' educational achievements.

Learning Outcomes in Course (LOC):

LOC 1 - Knows the main functions and tasks of the internal systems of the EYE in universities and schools.

LOC 2 - knows about the peculiarities of the methodology for evaluating the effectiveness of teaching an academic subject.

LOC 3 - applies modern methods of intra-university and intra-school assessment.

Post requisites: FSASSh 5207-1. Formative and summative assessment in secondary schools

Optional component 5

Course: Features of the organization of national examinations and monitoring, international comparative studies

Intensity of the Course: 5 academic credits

Module Code: FONEMICS 5207.

Module Name: Theoretical and organizational foundations of educational quality assessment systems (GAS)

Prerequisites: PVSh 5203. Higher school pedagogy

Purpose: To familiarize with the organizational and technological bases of examinations and monitoring at the national and international level.

Short Description: Logistics of external evaluation procedures. Personnel, facilities and equipment required to carry out the assessment. Methodology of forming samples by schools. Forms of observation of the participants in the procedures. Proctoring.

Learning Outcomes in EP (LOP):

LO4 – Designs tools, develops methods for evaluating students' educational achievements.

LO5 – Uses digital technologies to assess the quality of education at universities and schools, organizes and conducts evaluation activities (exams, monitoring, current assessment).

Learning Outcomes in Course (LOC):

LOC 1 - Knows the organizational and technological features of conducting evaluation activities.

LOC 2 – Knows the methodology of organizing evaluation activities based on samples.

LOC 3 – Has the skills to conduct assessment activities at the national and international level

LOC 4 – Monitors the participants of evaluation activities.



Post requisites: **MMELO 5205. Modern means of evaluating learning outcomes.**

Optional component 6

Course: Formative and summative assessment in secondary schools

Intensity of the Course: 5 academic credits

Module Code: **FSASSh 5207 -1.**

Module Name: Theoretical and organizational foundations of educational quality assessment systems (GAS).

Prerequisites: 5203.Higher school pedagogy

Purpose: study of internal assessment systems in secondary schools of Kazakhstan.

Short Description: Diversity of methods of internal evaluation of learning outcomes. Functional features of internal assessment systems in schools: KUNDELİK, etc. Built-in assessment subsystems in distance learning systems.

Internal assessment in secondary schools. Formative and summative assessment, section and quarter assessment systems (SOBR, SOC). Methods of developing tasks for internal evaluation. Feedback.

Learning Outcomes in EP (LOP):

LO4 – Designs tools, develops methods for evaluating students' educational achievements.

LO5 – Uses digital technologies to assess the quality of education at universities and schools, organizes and conducts evaluation activities (exams, monitoring, current assessment).

Learning Outcomes in Course (LOC):

LOC 1 - Knows different methods of internal evaluation of students' academic achievements.

LOC 2 – Develops tasks for internal evaluation.

LOC 3 – Conducts formative and summative assessment of students' achievements.

Post requisites: **CMTT 5205 -1. Classical and modern test theory.**

Optional component 7

Course: Classical and modern theory of tests

Intensity of the Course: 5 academic credits

Module Code: **CMTT 5207.**

Module Name: Theory of tests and assessment of the quality of education.

Prerequisites: 5203.Higher school pedagogy

Purpose: mastering the theoretical foundations of classical and modern types of tests, their types and methodological principles by undergraduates.

Short Description: Classical and modern theory of tests, continuity and its differences. Statistical concepts in testing theory. Introduction to scaling, test design process. Reliability theory in the context of the classical concept of true evaluation and development of test validity and reliability procedures. Characteristics of test scores and methods of their interpretation.

Methods of obtaining objective information about the results and quality of training in accordance with educational standards, methods of measuring the objectivity of evaluation.

Learning Outcomes in EP (LOP):

LOP 1 – summarizes the effectiveness of modern and classical theory of testing and preparation of test tasks based on the principle of a qualimetric approach to measuring and evaluating the quality of subjects of the educational process.

Learning Outcomes in Course (LOC):

LOC 1 - has the skills of modern and classical testing theory, practical application of knowledge and achievements;

LOC 2 - when conducting research work, pedagogical criteria are used;



LOC 3 - he is able to solve conceptual problems of modern pedagogical science.
Post requisites: NSOEGA 5205. National system of education quality assessment

Optional component 6

Course: Theory and technologies of testing in education

Intensity of the Course: 5 academic credits

Module Code: TTTE 5207 -1.

Module Name: Theory of tests and assessment of the quality of education.

Prerequisites: 5203.Higher school pedagogy

Purpose: mastering the theory and technology of educational testing, its types and methodological principles by undergraduates.

Short Description: Basics of pedagogical theory of measurement. The essence and content of the theory and technology of testing in education. Problems of "Educational Measurement". Item Response Theory (IRT) – measurement theory. New versions of pedagogical measurements -Strong True Score Theory and Random Sampling Theory and Theory of Generalizability. Theory of compositions of tasks in test forms. Testing is a means of measuring the quality of knowledge. The influence of test types on the quality of pedagogical measurements.

Methods of obtaining objective information about the results and quality of training in accordance with educational standards, methods of measuring the objectivity of evaluation.

Learning Outcomes in EP (LOP):

LOP 1 - the theory and technology of testing in education has been formed, an educated, competitive girl is a leader.

Learning Outcomes in Course (LOC):

LOC 1 - has the skills of modern and classical testing theory, practical application of knowledge and achievements;

LOC 2 - when conducting research work, pedagogical criteria are used;

LOC 3 - he is able to solve conceptual problems of modern pedagogical science.

Post requisites: AESG 5205-1. Assessment of education system quality

CYCLE OF PROFILE DISCIPLINES

University component

Course: Methodology and methods of pedagogical researches

Intensity of the Course: 6 academic credits

Module Code: MMPR 6303.

Module Name: Innovative approaches in assessment and measurement

Prerequisites: 5203.Higher school pedagogy

Purpose: undergraduates should master the methodology of pedagogical research, the structure of research logic, mathematical and statistical data processing in research work and mathematical modeling

Short Description: Methodology and methods of pedagogical research in the unity of levels of philosophical methodology, general scientific dialectical principles, private scientific methods, specific methods and procedures of psychological and pedagogical research. Research methods: from the formulation of scientific problems to statistical and qualitative processing of materials and study results design.

Learning Outcomes in EP (LOP):

LO1 – Defines actual problems of modern philosophy of science and theoretical and methodological knowledge in the conditions of integration of science and education.



LO2 – Presents theoretical and methodological foundations for the development of the science of pedagogy and management psychology in assessing the quality of education.

Learning Outcomes in Course (LOC):

LOC 1 - based on the algorithms of research methods, it evaluates the coefficients and criteria for determining the relationship between psychological and pedagogical parameters-determines the actual problems of modern philosophy of Science and theoretical and methodological knowledge in the context of the integration of Science and education.

LOC 2 - provides theoretical and methodological foundations for the development of pedagogical science and management psychology in assessing the quality of Education.

Post requisites: -

2. COMPONENTS FOR CHOOSING A CYCLE OF PROFILING DISCIPLINES

Optional component 7

Course: Methods of informatization of knowledge control and evaluation

Intensity of the Course: 5 academic credits

Module Code: MICEEA 6302.

Module Name: Test technology and statistics

Prerequisites: MMPR 6303. Methodology and methods of pedagogical researches

Purpose: formation of practical skills creation and use of electronic resources for monitoring and evaluation of educational achievements, learning effectiveness.

Short Description: Informatization of monitoring and evaluation of learning outcomes as one of the promising areas for improving the pedagogical process. Information and telecommunication technologies in the educational process. Informatization of control and measurement of learning outcomes. Formalization and unification of the testing procedure. Organization of remote testing via a local computer network. The use of neural technologies in informatization of control and evaluation of learning outcomes. Implementation of pedagogical systems for measuring the effectiveness of training. Preparation and retraining of teachers for the effective use of modern systems and means of pedagogical measurements within the framework of teaching a certain discipline. Development of students' skills and an adequate attitude to the verification and self-verification of the effectiveness of training.

Learning Outcomes in EP (LOP):

LO4 – Designs tools, develops methods for evaluating students' educational achievements.

LO5 – Uses digital technologies to assess the quality of education at universities and schools, organizes and conducts evaluation activities (exams, monitoring, current assessment).

Learning Outcomes in Course (LOC):

LOC 1 - creation of learning performance systems

LOC 2 - determination of the degree to which each student has achieved the requirements for knowledge, skills and abilities

LOC 3 - creation and use of electronic resources for monitoring and evaluating the effectiveness of training.

Post requisites: MMPR 5304. Mathematical methods in pedagogical research

Optional component 8

Course: Development and use of control and evaluation training tasks in education

Intensity of the Course: 5 academic credits

Module Code: DCETTE 6302-1.

Module Name: Test technology and statistics



Prerequisites: MMPR 6303. Methodology and methods of pedagogical researches

Purpose: formation of skills for practical development and experimental quality control of a set of control and evaluation materials to check the level of competencies formed in the process of studying.

Short Description: The structure of control and measuring materials. Methods of pedagogical design. The specifics of the adaptation of control and measuring materials. Development of tasks of control and measuring material (without adaptation). Adaptation of the task of the control and measuring material. Modern approaches to the adaptation of control and measuring materials. The problem of designing a system for assessing the quality of education in an inclusive educational process. Individual and differentiated approach in the development and adaptation of control and measuring materials. Simplification of instructions for tasks. Additional visualization and simplification of the task content.

Learning Outcomes in EP (LOP):

LO3 – Analyzes modern problems of theory and practice of pedagogical measurements, functional features of modern (operating) tools for external and internal assessment of the quality of education.

LO4 – Designs tools, develops methods for evaluating students' educational achievements.

LO5 – Uses digital technologies to assess the quality of education at universities and schools, organizes and conducts evaluation activities (exams, monitoring, current assessment).

Learning Outcomes in Course (LOC):

LOC 1 - Knows the main tasks and functions of existing external assessment tools..

LOC 2 – Knows the composition and stages of development of external assessment tools.

LOC 3 – Is able to develop test tasks for external assessment tools.

Post requisites: **MFPT 5304 -1. Mathematical foundations of pedagogical testing.**

Optional component 9

Course: Design, development and validation of learning outcomes assessment tools

Intensity of the Course: 5 academic credits

Module Code: **DDVLOAT 5302.**

Module Name: Test technology and statistics

Prerequisites: MMPR 6303. Methodology and methods of pedagogical researches

Purpose: mastering all stages of development and implementation of learning outcomes assessment tools.

Short Description: Stages of development of tools for evaluating learning outcomes, the formation of competencies, readiness to perform professional activities. Tasks of implementing external assessment systems: Unified National Testing (UNT), Monitoring of educational achievements of students (MODO) in secondary education and Technical and vocational training. The system of assessment of the level of Kazakh language development KAZTEST, the National Qualification Test of teachers (NQT) and others.

Forms and content of tasks of existing external assessment systems. Stages of forming a database of tasks for assessment tools. Features of the organization of examination and approbation of test tasks. Ensuring the validity of the test, evaluating the quality of test tasks.

Learning Outcomes in EP (LOP):

LO3 – Analyzes modern problems of theory and practice of pedagogical measurements, functional features of modern (operating) tools for external and internal assessment of the quality of education.

LO4 – Designs tools, develops methods for evaluating students' educational achievements.

LO5 – Uses digital technologies to assess the quality of education at universities and schools, organizes and conducts evaluation activities (exams, monitoring, current assessment).



Learning Outcomes in Course (LOC):

LOC 1 - when conducting research work, pedagogical criteria are used;

LOC 2 - development of diagnostic tools in education;

LOC 3 - mastering the technology of professional management by a future teacher-psychologist.

Post requisites: MDTFALFFL. Methods of developing tasks for assessing the level of formation of functional literacy

Optional component 10

Course: Development of diagnostics tools in education

Intensity of the Course: 5 academic credits

Module Code: DDTE 5302-1.

Module Name: Test technology and statistics

Prerequisites: MMPR 6303. Methodology and methods of pedagogical researches

Purpose: mastering the goals of diagnostics in education by undergraduates and ways to develop their tools.

Short Description: The essence of diagnostics in the theory and practice of pedagogical measurements. Development of tools for psychological and pedagogical diagnostics of subjects of the educational process. Ethics of psychological and pedagogical diagnostics. Diagnosis of intellectual development of personality. Classification of diagnostic tools in education. Technology of preparation of tests in the field of pedagogical measurements.

Learning Outcomes in EP (LOP):

LO3 – Analyzes modern problems of theory and practice of pedagogical measurements, functional features of modern (operating) tools for external and internal assessment of the quality of education.

LO4 – Designs tools, develops methods for evaluating students' educational achievements.

LO5 – Uses digital technologies to assess the quality of education at universities and schools, organizes and conducts evaluation activities (exams, monitoring, current assessment).

Learning Outcomes in Course (LOC):

LOC 1 - pedagogical criteria are used when conducting research work;

LOC 2 - development of diagnostic tools in education;

LOC 3 - mastering the technology of professional management by a future teacher-psychologist.

Post requisites: MDTFALFFL 5303- 1. Methods of developing tasks for assessing the level of formation of functional literacy

Optional component 11

Course: Methods of developing tasks for assessing the level of formation of functional literacy

Intensity of the Course: 5 academic credits

Module Code: MDTFALFFL 5303.

Module Name: Test technology and statistics

Prerequisites: MMPR 6303. Methodology and methods of pedagogical researches

Purpose: mastering the methods of developing tasks for assessing the level of formation of functional literacy.

Short Description: The concept of functional literacy, its diversity: reading literacy, mathematical literacy, natural science literacy, ICT literacy. Stages and levels of functional literacy formation.

Development of tasks for functional literacy assessment.

Learning Outcomes in EP (LOP):



LO3 – Analyzes modern problems of theory and practice of pedagogical measurements, functional features of modern (operating) tools for external and internal assessment of the quality of education.

LO4 – Designs tools, develops methods for evaluating students' educational achievements.

Learning Outcomes in Course (LOC):

LOC 1 - understands functional literacy as a result of learning.

LOC 2 - is able to develop tasks for assessing functional literacy.

Post requisites: DDVLOAT 5302. Design, development and validation of learning outcomes assessment tools.

Optional component 12

Course: Development of a tool for measuring universal competencies of school graduates

Intensity of the Course: 5 academic credits

Module Code: DTFMUCShG 5303 -1.

Module Name: Test technology and statistics

Prerequisites: MMPR 6303. Methodology and methods of pedagogical researches

Purpose: studying the problems of developing a universal competence assessment tool.

Short Description: A variety of theoretical definitions of universal competencies: critical and creative thinking, ability to work in a team, communication. Stages of development of tools for evaluating learning outcomes, the level of competence formation.

The forms and content of tasks designed to assess universal competencies. Stages of forming a database of tasks for assessment tools. Features of the organization of examination and approbation of test tasks. Ensuring the validity of the test, evaluating the quality of test tasks.

Learning Outcomes in EP (LOP):

LO3 – Analyzes modern problems of theory and practice of pedagogical measurements, functional features of modern (operating) tools for external and internal assessment of the quality of education.

LO4 – Designs tools, develops methods for evaluating students' educational achievements.

Learning Outcomes in Course (LOC):

LOC 1 - knows the main functions and tasks of internal systems for evaluating learning outcomes.

LOC 2 – knows about the specifics of the methodology for evaluating the effectiveness of teaching an academic subject.

LOC 3 - applies modern methods of in-school assessment.

Post requisites: DDDTE 5302-1. Development of diagnostics tools in education.

Optional component 13

Course: Mathematical methods in pedagogical research

Intensity of the Course: 5 academic credits

Module Code: MMPR 5304.

Module Name: Test technology and statistics

Prerequisites: MMPR 6303. Methodology and methods of pedagogical researches

Purpose: formation of skills of using mathematical methods in pedagogical research.

Short Description: Mathematical foundations of research planning. Mathematics in psychology and pedagogy. Measurement in pedagogy. Types of scales. General and sample populations. Methods of processing one-dimensional data. Descriptive statistics. Testing statistical hypotheses. Comparative analysis. Correlation analysis. Communication measures. Analysis of variance. Multidimensional methods. Factor analysis. Cluster analysis. Multiple regression analysis.

Learning Outcomes in EP (LOP):



LO4 – Designs tools, develops methods for evaluating students' educational achievements.

LO5 – Uses digital technologies to assess the quality of education at universities and schools, organizes and conducts evaluation activities (exams, monitoring, current assessment).

Learning Outcomes in Course (LOC):

LOC 1 - planning of pedagogical research.

LOC 2 – the use of methods for processing one-dimensional and multidimensional data

LOC 3- conducting comparative analyses in pedagogical research.

Post requisites: **ISSELO 6301. Information systems to support the evaluation of learning outcome.**

Optional component 14

Course: Mathematical foundations of pedagogical testing

Intensity of the Course: 6 academic credits

Module Code: **MFPT 5304-1.**

Module Name: Test technology and statistics

Prerequisites: MMPR 6303. Methodology and methods of pedagogical researches

Purpose: formation of practical skills in creating tests, control measuring materials and scaling results.

Short Description: Historical aspects of the development of test control. Conceptual and classification base of modern testing. Fundamentals of designing tests as control measuring materials. Stages and algorithms of creation of control measuring materials. Methods of scaling test results. Substantiation of the structure of control measuring materials and approaches to scaling the results.

Learning Outcomes in EP (LOP):

LO4 – Designs tools, develops methods for evaluating students' educational achievements.

LO5 – Uses digital technologies to assess the quality of education at universities and schools, organizes and conducts evaluation activities (exams, monitoring, current assessment).

Learning Outcomes in Course (LOC):

LOC 1 – design of tests, control measuring materials

LOC 2 - scaling of test results

LOC 3 – mathematical justification of the structure of control measurement tests.

Post requisites: **BMDA WWSP 6301-1. Basic methods of data analysis and working with static packages**

Optional component 15

Course: Information systems to support the evaluation of learning outcome

Intensity of the Course: 6 academic credits

Module Code: **ISSELO 6301.**

Module Name: Test technology and statistics

Prerequisites: MMPR 6303. Methodology and methods of pedagogical researches

Purpose: Formation of practical skills creation and use of electronic resources for monitoring and evaluation of educational achievements, learning effectiveness.

Short Description: Quantitative (statistical) and qualitative mathematical thinking: measurement of primary psychological and pedagogical characteristics, mathematical and statistical processing of results and mathematical modeling in education and science. The variety of statistical methods in the form of an ordered, logically and hierarchically interconnected system reflecting the possibilities of practical application of mathematical methods of processing the results of education and science.

Learning Outcomes in EP (LOP):

LO4 – Designs tools, develops methods for evaluating students' educational achievements.

LO5 – Uses digital technologies to assess the quality of education at universities and schools, organizes and conducts evaluation activities (exams, monitoring, current assessment).



Learning Outcomes in Course (LOC):

LOC 1 – Knows the main IS subsystems for processing the results of students' assessment;

LOC 2 – Knows the specifics of automating the stages of conducting large-scale events to evaluate learning outcomes

LOC 3 – Is able to make a description of the IS model designed to evaluate learning outcomes.

Post requisites: **MICEEA 6302. Methods of informatization of knowledge control and evaluation.**

Optional component 16

Course: Basic methods of data analysis and working with static packages

Intensity of the Course: 6 academic credits

Module Code: **BMDAWWSP 6301-1.**

Module Name: Test technology and statistics

Prerequisites: MMPR 6303. Methodology and methods of pedagogical researches

Purpose: formation of theoretical ideas about the main modern methods of data analysis and formation of skills of practical application of methods, both to independently collected data and databases.

Short Description: The main tasks of analyzing the quality of test tasks and the results of evaluation activities. Quality indicators of test tasks. Table of test results. The use of specialized application programs Iteman, Winstep to analyze the quality of tasks. Features of the program SPSS - Statistical Package for Social Sciences, (Statistical package for social sciences).

Learning Outcomes in EP (LOP):

LO4 – Designs tools, develops methods for evaluating students' educational achievements.

LO5 – Uses digital technologies to assess the quality of education at universities and schools, organizes and conducts evaluation activities (exams, monitoring, current assessment).

Learning Outcomes in Course (LOC):

LOC 1 – Knows the main tasks of analyzing the quality of test tasks and the results of evaluation activities.

LOC 2 – Understands the value of quality indicators of test tasks.

LOC 3 – Uses special application programs to process the data of approbation of test tasks.

Post requisites: **DCETTE 6302-1. Разработка и использование контрольных и оценочных учебных заданий в образовании.**

Optional component 17

Course: National monitoring and international comparative studies

Intensity of the Course: 6 academic credits

Module Code: **NMICS 6303.**

Module Name: Innovative approaches in assessment and measurement

Prerequisites: MMPR 6303. Methodology and methods of pedagogical researches

Purpose: familiarization with the features and content of monitoring studies.

Short Description: National monitoring in developed countries, CIS and Kazakhstan. The main differences between national monitoring and examinations. Tasks of monitoring.

The form and content of the MOD tasks. Features of tasks of international comparative studies PISA, TALIS, TIMSS, PIRLS, ICILS. Sampling method during monitoring.

Interpretation and dissemination of monitoring results to interested parties, experience of developed countries. Use of monitoring results to manage the quality of education. Forms of presentation of monitoring results to students, teachers, schools and heads of educational organizations.

Learning Outcomes in EP (LOP):



LO3 – Analyzes modern problems of theory and practice of pedagogical measurements, functional features of modern (operating) tools for external and internal assessment of the quality of education.

LO6 – Interprets the results of evaluation activities, uses them to manage the quality of education.

Learning Outcomes in Course (LOC):

LOC 1 – Knows the tasks of conducting national monitoring and international research.

LOC 2 – Is able to develop tasks for monitoring.

LOC 3 – Is able to interpret the results of monitoring and comparative studies.

Post requisites: MIROM 6304. Methods of interpretation of the results of evaluation activities

Optional component 18

Course: Education assessment and monitoring system

Intensity of the Course: 6 academic credits

Module Code: **EAMS 6303-1.**

Module Name: Innovative approaches in assessment and measurement

Prerequisites: MMPR 6303. Methodology and methods of pedagogical researches

Purpose: formation of a system of concepts reflecting the essence and main characteristics of monitoring and evaluation of the quality of education; mastering technologies and methods of organization of monitoring and evaluation of the quality of education in educational institutions by undergraduates

Short Description: The main normative documents on the quality control of the educational process in higher educational institutions, the regularity of Kazakh education. The essence and main characteristics of monitoring the quality of the educational process at the university. The system of monitoring, quality control and the quality of the educational process in higher educational institutions. Technology for monitoring the quality of educational process management at the university

Learning Outcomes in EP (LOP):

LO3 – Analyzes modern problems of theory and practice of pedagogical measurements, functional features of modern (operating) tools for external and internal assessment of the quality of education.

LO6 – Interprets the results of evaluation activities, uses them to manage the quality of education.

Learning Outcomes in Course (LOC):

LOC 1 - he is able to analyze modern methods and technologies of organizing educational activities;

LOC 2 - owns the methods of quality control of the educational process;

LOC 3 - development of the ability to assess and monitor education.

Post requisites: UEREGM 6304-1 Use of evaluation results in education quality management

Optional component 19

Course: Methods of interpretation of the results of evaluation activities

Intensity of the Course: 6 academic credits

Module Code: **MIROM 6304.**

Module Name: Innovative approaches in assessment and measurement

Prerequisites: MMPR 6303. Methodology and methods of pedagogical researches

Purpose: Training in methods of interpreting the results of evaluation procedures (examinations and monitoring).



Short Description: Directions and possibilities of using the results of evaluation procedures. Interpretation and presentation of results. Meaningful interpretation of the results. The dependence of interpretation on the assessment tool used is normative-oriented and criterion-oriented approaches to interpretation. Cluster approach to the interpretation of evaluation results.

Learning Outcomes in EP (LOP):

LO5 – Uses digital technologies to assess the quality of education at universities and schools, organizes and conducts evaluation activities (exams, monitoring, current assessment).

LO6 – Interprets the results of evaluation activities, uses them to manage the quality of education.

Learning Outcomes in Course (LOC):

LOC 1 - Knows the possibilities of using the results of external evaluation of educational achievements

LOC 2- Knows different methods of interpreting the results of evaluation procedures

LOC 3 – Is able to interpret and present the evaluation results for the management of the quality of education at the national and regional levels.

Post requisites: NMICS 6303 National monitoring and international comparative studies

Optional component 20

Course: Use of evaluation results in education quality management

Intensity of the Course: 6 academic credits

Module Code: UEREGM 6304-1.

Module Name: Innovative approaches in assessment and measurement

Prerequisites: MMPR 6303. Methodology and methods of pedagogical researches

Purpose: Familiarization with the forms of presentation and best practices for the use of evaluation results.

Short Description: Evaluation procedures as tools for quality management of education. Users of the results of evaluation procedures. Forms of presentation of the results of procedures for assessing the quality of education, taking into account the interests of users. The strategy of dissemination of information about the results of the assessment. Terms of use of evaluation results

Learning Outcomes in EP (LOP):

LO5 – Uses digital technologies to assess the quality of education at universities and schools, organizes and conducts evaluation activities (exams, monitoring, current assessment).

LO6 – Interprets the results of evaluation activities, uses them to manage the quality of education.

Learning Outcomes in Course (LOC):

LOC 1 - Understands the role of evaluation procedures as educational quality management tools

LOC 2 – Knows the methods of presenting the evaluation results for different users

LOC 3 – Is able to develop forms of presentation of evaluation results.

Post requisites: EAMS 6303-1. Education assessment and monitoring system