1. OPTIONAL COMPONENTS OF THE CYCLE OF CORE COURSES

Optional component 1

Course: **Methodology and technology of pedagogical research**

Intensity of the Course: 5 academic credits

Module Code: MFPE-2

Module Name: Methodological foundations of professional education

Prerequisites: higher school pedagogy

Purpose: formation of methodological foundations of the philosophical science of the magistracy in order to solve research tasks aimed at research and practical activities in the system of vocational education.

Short Description: Organization of scientific pedagogical research in the field of professional pedagogy. Research methods in professional pedagogy. Methods used to study specific issues of professional pedagogy. Collection and generalization of research results. Registration and dissemination of the results of pedagogical research.

Learning Outcomes in EP (LOP):

LOP 8 - Integrates modern innovative and creative approaches for the implementation of educational and activity, design and technological activities.

Learning Outcomes in Course (LOC):

LOC 1 - analyze ways to solve problems based on the application of the basic concepts and means of discipline research in professional and scientific research;

LOC 2- search, storage, processing and analysis of information from various sources and databases using information, computer and network technologies;

LOC 3- application of technical, pedagogical, psychological and other knowledge and skills in solving problems of methods and technologies of pedagogical research;

Post requisites:

Optional component 1

Course: **Research in the field of vocational education**

Intensity of the Course: 5 academic credits

Module Code: MFPE-2

Module Name Methodological foundations of professional education

Prerequisites: Higher school pedagogy, methodology and technology of pedagogical research

Purpose: Improving the competencies of future professional training specialists in the study of scientific methods, evaluation of methods and results in the scientific field, as well as the organization of theory and experiment of scientific research.

Short Description: Scientific works of scientists who conducted research in the field of professional education. Basic and applied research. Modern methods of pedagogical research. Registration of scientific papers. Interaction of the research group. Preparation of scientific data. Falsification that leads to distortion of research data. Plagiarism and fake copyright.

Learning Outcomes in EP (LOP):

LOP 5- Systematizes the content and innovative orientation of pedagogical activity in the development of programs, methods, technologies of training and education for vocational training.

LOP 8 - Integrates modern innovative and creative approaches for the implementation of educational and activity, design and technological activities.

Learning Outcomes in Course (LOC):

LOC 1- to give an opportunity to understand modern problems of science and methodological foundations;

LOC 2- arming with theory, principles, methods, methods of scientific activity;

LOC 3- the ability to critically analyze and evaluate modern scientific achievements, generate new ideas when solving research and practical problems, including in the inter-engineering field;

LOC 4- the ability to develop theoretical and applied samples of the studied processes, phenomena and objects related to the field of professional activity.

LOC 5- skills of working with scientific, special and periodical literature in the field of scientific research; scientific methods of cognition in professional activity

Post requisites:

Optional component 2

Course: **Methods of teaching general technical special disciplines**
*Intensity of the Course:*5 academic credits
Module Code: MFPE-2
Module Name Methodological foundations of professional education
Prerequisites: higher school pedagogy
Purpose: Providing methodological training of a teacher of vocational training for the implementation of educational and educational and production processes in educational institutions of technical and vocational education.

Short Description: Tasks and content of professional training. General didactic principles of training in the system of professional training. The system of industrial training. Types of training organization. Modern forms of professional training. Structure and types of theoretical training sessions. Innovative technologies in professional training. Accounting, verification and evaluation of students ' knowledge, skills and abilities. Planning of educational work and preparing a professional training teacher for classes.

Learning Outcomes in EP (LOP):
LOP 5- Systematizes the content and innovative orientation of pedagogical activity in the development of programs, methods, technologies of training and education for vocational training.

Learning Outcomes in Course (LOC):
LOC 1 – I am ready to develop and implement programs, methods, technologies and approaches of upbringing and additional education, analyze them based on the results of the process of application in organizations engaged in educational activities

LOC 2 – I am ready for pedagogical design of educational programs, development and implementation of individual educational directions, taking into account the individual and age characteristics of students.

LOC 3 - the use of individual and group decision-making technologies in the development and management of an organization engaged in educational activities.

LOC 4 - I am ready to participate in the development and implementation of educational programs to promote scientific knowledge and cultural traditions.

LOC 5 - he is able to carry out professional and personal education, design further educational directions and a professional career.

Post requisites: Pedagogical management in the higher school system

Optional component 2

Course: **Methodological basis and theory of design**
Intensity of the Course:5 academic credits
Module Code: MFPE-2
Module Name Methodological foundations of professional education
Prerequisites: methodology and technology of pedagogical research
Purpose: To reveal the main content of the theory and methodology of the design industry. Effective results in the development of design consideration of design programs. To give a general idea of the design knowledge of specialists, experts and managers studying the field of design.

Short Description: Theory and methodology of design. Definition and types of design. History of design and development. The emergence of new advanced substances. Formation of a harmonious material environment. The beginning of industrial design. Proportion and proportion. The form of integrity and content. Industrial design. Types, features, and design features. The concept of industrial design, its subject, purpose and options. Stages of artistic structuring.

Learning Outcomes in EP (LOP):
LOP 3- Substantiates the theoretical and methodological foundations of design
Learning Outcomes in Course (LOC):
LOC 1 – it is necessary to take into account different thinking [figurative, spatial, logical, abstract, etc.]. Professional and educational tasks. The master's student is engaged in design activities
LOC 2 – To know and use modern technologies of education and upbringing in professional activity
LOC 3 - The ability to control the result of a child's development of an educational program in educational activities, to determine his achievements and problems.
Post requisites: Pedagogical design: theory and technology

Optional component 3

Course: **Methodological bases of pedagogical sciences**
Intensity of the Course:5 academic credits
Module Code: MFPE-2
Module Name Methodological foundations of professional education
Prerequisites: Methods of teaching general technical special disciplines
Purpose: formation of the personality of a new specialist, prepared for work with full knowledge of the system of vocational education, professionally working on the latest technologies, comprehensively trained in the Polytechnic field, creatively focused on methodological experience, widely using the ideas of innovators.
Short Description: General concept of methodology. The essence of pedagogical methodology. Levels of pedagogy scientific methodology: Philosophical level, General scientific level, Specific scientific level, Technological level. Methodology of pedagogical activity. Methodological approaches in pedagogical science: systemic, activity, personal, axiological, etc. Pedagogy as an applied science. Communication pedagogy with other science. Pedagogy as an independent science. Methodological characteristics of pedagogical studies.
Learning Outcomes in EP (LOP):
LOP 8- Integrates modern innovative and creative approaches for the implementation of educational and activity, design and technological activities.
Learning Outcomes in Course (LOC):
LOC 1 – arm yourself with theory, principles, methods, methods of scientific activity;
Post requisites: Pedagogical design: theory and technology

Optional component 3

Course: **Theory and practice of educational work in vocational schools**
T Intensity of the Course:5 academic credits
Module Code: MFPE-2
Module Name Methodological foundations of professional education
Prerequisites: methodological foundations of pedagogical science
Purpose: formation of the personality of a new specialist, prepared for work with full knowledge of the system of vocational education, professionally working on the latest technologies, comprehensively trained in the Polytechnic field, creatively focused on methodological experience, widely using the ideas of innovators.
Short Description: Principles and methods of training. Features of the organization of the educational process in professional educational institutions. The appropriateness of the training. Directions of educational work in vocational schools: civil-Patriotic, legal and multicultural; spiritual and moral. Family education. Ecological education. Aesthetic education. Physical culture. Labor and economic education. Professional and creative education.
Learning Outcomes in EP (LOP):

LOP 5- Systematizes the content and innovative orientation of pedagogical activity in the development of programs, methods, technologies of training and education for vocational training.

Learning Outcomes in Course (LOC):

LOC 1 – the purpose, patterns, principles, methods and means, forms, content and technologies of the pedagogical process of personal development as a means and factor of human development

LOC 2 – the essence and significance of teaching methodology in pedagogical education, its organizational structure and functional area.

LOC 3 - knows the main categories of pedagogy; owns the methodology of teaching pedagogical activity, knows the categorical structure of pedagogical science.

Post requisites: Professional development of a teacher

2. OPTIONAL COMPONENTS OF THE CYCLE OF MAJOR COURSES

Optional component 1

Course: **Pedagogical design: theory and technology**
Intensity of the Course:5 academic credits
Module Code: PMPE - 3
Module Name Pedagogical management in professional education
Prerequisites: methodological foundations of pedagogical science
Purpose: formation of their skills and abilities in preparation for the future professional teaching profession, effective use of the theory and technology of pedagogical design based on new social and economic conditions in teaching the profession.

Short Description: General framework of the design. Cultural and innovative nature of design. Social design. The essence of pedagogical design. The study and the types of pedagogical design. Pedagogical design and management. Regularities and principles of pedagogical design. Technologies of pedagogical design. Conditions for organizing pedagogical design. The logic of the implementation of the pedagogical design. Results of pedagogical design and evaluation. Technology of design of pedagogical activity.

Learning Outcomes in EP (LOP):

LOP 6- Applies new technologies in expanding the entrepreneurial activity of a teacher of vocational training.

LOP 8 - Integrates modern innovative and creative approaches for the implementation of educational and activity, design and technological activities.

Learning Outcomes in Course (LOC):

LOC 1 – analysis of the results of scientific research, their application in solving specific research tasks in the field of science and education, independent implementation of scientific research;

LOC 2 – the use of individual creative abilities for the independent solution of research tasks.

LOC 3 - I am ready to develop and implement programs, methods, technologies and approaches of upbringing and additional education, analyze them based on the results of the process of application in organizations engaged in educational activities

LOC 4 - he is able to search, create, distribute, apply innovations and creativity in design and technological activities.

Post requisites: Professional development of a teacher

Optional component 1

Course: **Strategy of success**
Intensity of the Course:5 academic credits
Module Code: PMPE - 3
Module Name Pedagogical management in professional education
Prerequisites:

Purpose: in the process of studying the discipline, knowledge is given about the importance of management, the role and place in the system of vocational education. The principles and methods of the manager's activity in the educational region and strategies for achieving success are determined.

Short Description: Conceptual rules of strategic management. Development of a strategic plan for the organization: target stages. Development of a strategic plan for the organization: the stages of diagnosis. strategic alternatives, their variants and combinations. Competitive advantage strategy. the choice of the direction of development. Manage and monitor the implementation of the Strategic Plan. Strategy implementation: real-time control. Strategy implementation: management within the framework of strategic changes.

Learning Outcomes in EP (LOP):

LOP 6- Applies new technologies in expanding the entrepreneurial activity of a teacher of vocational training.

Learning Outcomes in Course (LOC):

LOC 1 – Knowledge is given about the importance of success strategy management, role and place in the system of vocational education.

LOC 2 – Knows the principles and methods of the manager's activity in the educational field.

LOC 3 - Defines organizational, communicative, constructive, gnostic and industrial-technical features of the activity of a teacher of vocational training.

Post requisites: Pedagogical technologies in professional education

Optional component 2

Course: **Professional development of the teacher**
Intensity of the Course: 5 academic credits
Module Code: PMPE - 3
Module Name Pedagogical management in professional education
Prerequisites: Methods of teaching general technical special disciplines
Purpose: formation of holistic ideas about the essence of pedagogical activity, the psychological and pedagogical content of pedagogical skills, practical development of pedagogical professional development in the education system. Formation of competencies capable of applying an innovative approach to education in order to increase the competitiveness of specialists.

Short Description: Pedagogical culture is characteristic of the professionalism of a professional teacher. The basis of the formation of the pedagogical skills of the teacher of the professional-pedagogical business. Pedagogical erudition and conditions of competence and pedagogical skills. Pedagogical equipment is a key element of pedagogical skills. The language of the teacher, speech, the main condition of pedagogical skills. Pedagogical communication - the structure of pedagogical skills. The main elements of pedagogical ethics and pedagogical relations.

Learning Outcomes in EP (LOP):

LOP 6- Applies new technologies in expanding the entrepreneurial activity of a teacher of vocational training.

Learning Outcomes in Course (LOC):

LOC 1 - integration of the application of theoretical knowledge acquired in practice;

LOC 2 - understanding the general foundations of pedagogical science, the history of education and pedagogical thought;

LOC 3 - analysis and synthesis of curricula of basic and elective courses in various educational institutions;

LOC 4 - mastering the importance of interdisciplinary connections in the formation of pedagogical skills of a future teacher-psychologist;

LOC 5 - psychological and pedagogical support of students, adaptation to knowledge, skills and abilities formed in the effective application of innovative technologies.

Post requisites: Pedagogical technologies of professional education

Course: **Ethics and culture of the teacher**
Intensity of the Course: 5 academic credits
Module Code: PMPE – 3
Module Name Pedagogical management in professional education
Prerequisites: professional development of a teacher
Purpose: deepening and consolidation of moral ideas, generalization of knowledge, formation of a system of moral views and beliefs, the idea of the influence of artistic beauty in the environment on a person
Short Description: Subject and tasks of professional and pedagogical ethics. Moral consciousness of a University teacher. The essence of the concepts "ethics", "morality", "professional etiquette", "culture". Professional ethics; a teacher and his activities; a group of teachers and students; a teacher-psychologist and his activities; a teacher and parents; a teacher and colleagues; an educator and public organizations. Theoretical and methodological bases of professional and ethical training of future teachers of professional education.
Learning Outcomes in EP (LOP):
LOP 6- Applies new technologies in expanding the entrepreneurial activity of a teacher of vocational training.
Learning Outcomes in Course (LOCK):
LOC 1 - In the discipline ethics and aesthetics, morality determines the difference between questions, conversation-conversations from simple conversation and instruction.
LOC 2 - Encourages a person to express their thoughts, views, assessments.
Post requirements: The technique of creative projects in vocational education

Optional component 3

Course: **Pedagogical management in the system of higher education**
Intensity of the Course: 5 academic credits
Module Code: PMPE – 3
Module Name Pedagogical management in professional education
Prerequisites: methodology and technology of pedagogical research
Purpose: formation of teachers of vocational training in vocational education institutions of systematic knowledge about the scientific foundations of pedagogical and managerial activities, as well as the necessary competencies in the field of pedagogical management
Short Description: The concept of pedagogical management. Pedagogical management system in higher education. Basic management requirements. Management methods. Principles of management. Management decisions in the management system. Management functions and planning. The main types of planning. Types of planning. Supervision control function. Indicators and dimensional system for determining the degree of training of highly qualified specialists. Teaching qualification and certification.
Learning Outcomes in EP (LOP):
LOP 5 - Systematizes the content and innovative orientation of pedagogical activity in the development of programs, methods, technologies of training and education for vocational training.
Learning Outcomes in Course (LOCK):
LOC 1 - knowledge of the essence of problems in professional activity and pedagogical management in the education system;
LOC 2 - be guided by the intended goals of the activities of educational institutions; be able to plan;
LOC 3 - the ability to organize the work of educational institutions and analyze the quality of its implementation;
LOC 4 - making optimal management decisions and new information technologies;
LOC 5 - the ability to generalize and analyze advanced scientific, organizational and managerial experience;
LOC 6 - the use of information technology to solve professional problems.

Post requirements: Computer graphics and modeling

Optional component 3

Course: **Methods for monitoring and evaluating the quality of the pedagogical process**
*Intensity of the Course:*5 academic credits
Module Code: PMPE – 3
Module Name Pedagogical management in professional education
Prerequisites: pedagogical technologies of professional education
Purpose: undergraduates master modern software products and work skills using computer programs when performing various graphic works while performing practical and laboratory work.
Short Description: The essence, content and main characteristics of educational monitoring. Goals, objectives, implementation mechanisms, monitoring performance indicators in the education system. The main principles for assessing the quality of education are systematization, stability and orientation. Objects for assessing the quality of education. Measurement of indicators and their comparison with criteria values, assessment.
Learning Outcomes in EP (LOP):
LOP 5 - Systematizes the content and innovative orientation of pedagogical activity in the development of programs, methods, technologies of training and education for vocational training.
Learning Outcomes in Course (LOCK):
LOC 1 - Mastering new knowledge with the help of modern information educational technologies;
LOC 2 - Is able to create the basics of IT technologies to meet the needs of the educational process;
LOC 3 - Is able to determine the intersection line of a geometric body, determine the slope of figures at an oblique intersection;
LOC 4 - increases the skill and ability to work with the use of information and communication technologies.
LOC 5 - uses information technology to solve professional tasks.
Post requirements: Pedagogical technologies of professional education
Optional component 4

Course: **Pedagogical technologies in professional education**
*Intensity of the Course:*5 academic credits
Module Code: PMPE – 3
Module Name Pedagogical management in professional education
Prerequisites: Pedagogical design: theory and technology
Purpose: To know the types of modern innovative technologies in the theory and practice of pedagogy and prepare them for creative use in the educational process.
Short Description: Modern educational technology as a subject. Modern technologies are innovative technologies. Genesis and historical development of technologies in the education system. Terminological apparatus of educational technology. Types of educational technology. Routing. Methodology of using modern educational technologies in lessons. Interdisciplinary communication with other disciplines, studied in higher educational institutions of modern educational technology. Technologies based on the humanization and democratization of pedagogical communication.
Learning Outcomes in EP (LOP):
LOP 6- Applies new technologies in expanding the entrepreneurial activity of a teacher of vocational training.
Learning Outcomes in Course (LOCK):
LOC 1 - Demonstrates the understanding and integration of professional knowledge based on the ideas of intersocial communication in the field of vocational training;
LOC 2 - applies his knowledge in practice based on a critical attitude to them and systematic thinking based on the information provided;

LOC 3 - is able to organize an increase in the student's creative abilities in designing, modeling and prototyping products using ICT in vocational training;

LOC 4 - uses innovative technologies in accordance with the goals and objectives of learning and individual characteristics of students;

LOC 5- uses technologies of criteria assessment, diagnostics, drawing up a short-term lesson plan;

Post requirements: Computer graphics and modeling

Optional component 4

Course: **Problems of organization of dual training in vocational and technical educational institutions**

*Intensity of the Course:*5 academic credits

Module Code: PMPE – 3

Module Name Pedagogical management in professional education

Prerequisites: Pedagogical management in the higher school system

Purpose: Determine the content of the dual learning process.

Short Description: Comparative analysis of the current situation abroad on the implementation of the dual training system. Model of dual education in Kazakhstan. Principles of the dual training system. Advantages of the dual training system. The main stages of implementing the dual training system. Possible risks of implementing the program.

Learning Outcomes in EP (LOP):

LOOP 7 - Adapts technological and communication technologies in vocational education.

Learning Outcomes in Course (LOCK):

LOC 6 - Future teachers to undergo pedagogical practice at a university, secondary technical and professional institutions, performs research work, applies diagnostic assessment.

Post requirements: The technique of creative projects in vocational education

Optional component 5

Course: **Computer graphics and modeling**

*Intensity of the Course:*6 academic credits

Module Code: EPE - 4

Module Name Engineering and pedagogical education

Prerequisites: Pedagogical technologies of professional education

Purpose: Undergraduates master modern software items and work skills using computer programs when performing various graphic works when performing practical and laboratory work.

Short Description: The main directions of computer graphics. Basic principles of modeling. Classification of models. The technology of creating models. Graphical situation modeling. Modeling stages. Model building. Execution of drawings with technical and economic calculations. The study of the basic drawings of the product, drawings of small parts, features of the model. Analysis and processing of simulation results. Modeling of production processes.

Learning Outcomes in EP (LOP):

LOP 4- Demonstrates creative abilities to independently solve research problems in the field of computer graphics

Learning Outcomes in Course (LOCK):

LOC 7 - Modeling, a type of modeling that allows you to imagine at the highest level what a project idea will look like; a worker looking for and visual goods, the skill of making a product and a model; shows that the model becomes a future product.

Post requirements: Innovative technologies in professional training

Optional component 5

Course: **Innovative technologies in professional training**

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*Intensity of the Course:*6 academic credits
Module Code: EPE -4
Module Name Engineering and pedagogical education
Prerequisites: Pedagogical technologies of professional education
Purpose: Know the types of modern innovative technologies in the theory and practice of pedagogy and prepare them for creative use in the educational process.

Short Description: Innovations and trends in the clothing industry. Innovation in product development. Use of computer technologies in the garment industry. Features of automation of design training. The evolution of CAD system "Grazia". To design clothing in CAD. Unique properties of materials. "Smart" fabrics. Nanotechnology in textiles. Therapeutic tissue. The use of antibacterial fibers in clothing and underwear. Production and application of multilayer materials in the production of clothing.

Learning Outcomes in EP (LOP):
LOP 8 - Integrates modern innovative and creative approaches for the implementation of educational and activity, design and technological activities.

Learning Outcomes in Course (LOCK):
LOC 1 - Demonstrates the understanding and integration of professional knowledge based on the ideas of intersocial communication in the field of vocational training;
LOC 2 - applies his knowledge in practice based on a critical attitude to them and systematic thinking based on the information provided;
LOC 3 - is able to organize an increase in the student's creative abilities in designing, modeling and prototyping products using ICT in vocational training;
LOC 4 - uses innovative technologies in accordance with the goals and objectives of learning and individual characteristics of students;
LOC 5 - uses technologies of criteria assessment, diagnostics, drawing up a short-term lesson plan;
Post requirements: The economics of entrepreneurship in the educational and industrial spheres

Optional component 6

Course: **Technique of creative projects in vocational education**
*Intensity of the Course:*6 academic credits
Module Code: EPE -4
Module Name: Engineering and pedagogical education
Prerequisites: Methodology and technology of pedagogical research
Purpose: The design method is based on the independent creative education of a developing personality, the development of strength, ingenuity, purposefulness. The specifics of the content of the design method.

Short Description: The content of the stages of creative design. Features of creative project development. The system of implementation of the creative project basic requirements for the creative project. Demand for products. Analysis and research of clothing models of different styles and stages. Research of ways of combination of the compositional decision on the example of classical and modern models of clothes. Creative clothing design.

Learning Outcomes in EP (LOP):
LOP 8 - Integrates modern innovative and creative approaches for the implementation of educational and activity, design and technological activities.

Learning Outcomes in Course (LOCK):
LOC 1 - forms all elements of the process of artistic creativity in the history and professional skills.
LOC 2 - owns the technique of modern creative design
LOC 3 - is able to develop methodological recommendations for evaluating creative projects
Post requirements: Pedagogical management in the higher school system

Optional component 6

Course: **Business planning of an art project**
Intensity of the Course: 6 academic credits
Module Code: EPE -4
Module Name Engineering and pedagogical education
Prerequisites:
Purpose: To study the purpose, functions and structure of a business plan, the specifics of business planning in a small business.
Short Description: Purpose, functions and structure of a business plan. Features of business planning in small business. Methodological principles of business planning. Analysis of the organization being created. Analysis of the external environment of the organization. PEST analysis method. SWOT-analytical method. Analysis of the internal environment of the organization. General description of the project gallery. Legal structure. Room. Staff. Costs. Profit.
Learning Outcomes in EP (LOP):
LOP 8 - Integrates modern innovative and creative approaches for the implementation of educational and activity, design and technological activities.
Learning Outcomes in Course (LOCK):
LOC 1 - forms all elements of the process of artistic creativity in the history and professional skills.
LOC 2 - Owns the technique of modern creative design
LOC 3 - is able to develop methodological recommendations for evaluating creative projects
Post requirements: The economics of entrepreneurship in the educational and industrial spheres

Optional component 7

Course: **Entrepreneurial Economics in Education and Industry**
Intensity of the Course: 6 academic credits
Module Code: EPE -4
Module Name Engineering and pedagogical education
Prerequisites: pedagogical management in the higher school system
Purpose: this course develops undergraduates' economic thinking, the ability to get acquainted with the methods of modeling business processes and restructuring business processes, develop business plans for the creation and development of new organizations.
Short Description: The concept of business and its distinctive features. Conditions and features of business activities in Kazakhstan. Basic organizational and legal issues of business. The main types of business activities. The essence of industrial entrepreneurship. The essence of business entrepreneurship. Types of consulting services and methods of their implementation. Characteristics of financial entrepreneurship.
Learning Outcomes in EP (LOP):
LOP 6- Applies new technologies in expanding the entrepreneurial activity of a teacher of vocational training.
Learning Outcomes in Course (LOCK):
LOC 1 - Current problems of modern business law in global and regional issues application at the professional level;
LOC 2 - the ability to analyze the behavior of consumers of economic goods and generate demand;
LOC 3 - differentiation of professional and non-professional business activities;
LOC 4 - determine what knowledge, skills and abilities are necessary for a professional entrepreneur;
LOC 5- identification of people's abilities and motives for professional entrepreneurship;
LOC 6 - identification of external manifestations of economic motives.
Post requirements: Pedagogical technologies of professional education

Optional component 7

Course: **Information and communication technologies in professional training**

Intensity of the Course: 6 academic credits

Module Code: EPE -4

Module Name Engineering and pedagogical education

Prerequisites: pedagogical technologies of professional education

Purpose: conducting research and methodological work that ensures the introduction of new information technologies into the educational process and the main directions of the implementation of the informatization of the vocational education system

Short Description: Formation of the information society: a new concept of education. Education in the information society. New models of education in the information society. Main trends in the development of the education system in the information society. Psychological and pedagogical aspects of the development of the education system in the information society. Socio-economic aspects of the development of the education system in the information society. Information technologies and quality of education. ICT for learning. ICT for teaching. ICT projects in education.

Learning Outcomes in EP (LOP):

LOP 7- Adapts technological and communication technologies in professional education

Learning Outcomes in Course (LOC):

LOC 6 - is able to organize the improvement of the student's creative abilities in designing, modeling and prototyping products using ICT in vocational training;

LOC 7 - uses innovative technologies in accordance with the goals and objectives of learning and individual characteristics of students;

Post requisites: no (there will be no lessons)