

## 1. OPTIONAL COMPONENTS OF THE CYCLE OF CORE COURSES

### *Optional component 1*

**Course: Methods and Technologies of Scientific and Educational Research**

*Intensity of the Course:* 5 academic credits

*Module Code:* RMAPE-2

*Module Name:* Research Methodology in Prts and Pedagogical 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 artistic pedagogical 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):*

LO2 – He has theoretical and methodological foundations for the development of the science of pedagogy and psychology, management processes and teaching methods, the essence and content of psychological and pedagogical research;

LO3 – Knows the content and goals of the main directions of research work in educational institutions and management functions in specialized organizations;

LO6 – Possesses knowledge of pedagogical art and modern pedagogical methods and technology necessary for the effective organization of the educational process in the field of artistic creativity based on the updated content of education;

LO8 – Plans, organizes experimental research works, determines approaches to solving the tasks of a scientific project and develops a program and methodology; carries out comprehensive monitoring of scientific research based on diagnostics, analysis and generalization;

*Learning Outcomes in Course (LOC):*

LOC 1- to give an understanding of the problems and methodological foundations of modern science;

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

LOC S 3-the ability to generate new ideas in the critical analysis and evaluation of modern scientific achievements, solving research and practical problems, including in interdisciplinary fields;

LOC 4-the ability to develop theoretical and applied models 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. TYPE 2 - search, storage, processing and analysis of information from various sources and databases using information, computer and network technologies;

*Post requisites:* Methodological foundations of pedagogical science *Post requisites:*

### *Optional component 1*

**Course: Methodological Foundations of Kazakh Ethnopedagogics**

*Intensity of the Course:* 5 academic credits

*Module Code:* RMAPE-2

*Module Name:* Research Methodology in Prts and Pedagogical Education

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

*Purpose:* The course introduces the national model of the pedagogical process, discusses the principles of national heritage, folk wisdom, the formation of ethnic culture. On the basis of folk pedagogy, the goals and objectives of national education are organized and implemented. The structure of national traditions and customs is studied, methods of their use in the educational process are determined.

*Short Description:* Methodology of pedagogy - as the orienting basis of Kazakh ethnopedagogy. The significance of the theory of ethnos in the content-terminological substantiation of Kazakh ethnopedagogy. Ethnopsychology in the cognition of the peculiarities of the Kazakhs, the role in ethnopedagogy. The essence of Kazakh philosophy in the ethno-pedagogical worldview. Kazakh ethnopedagogy as an integral part of pedagogical science. Ethnopedagogy as a special scientific discipline. The national system of education. Kazakh ethnopedagogy as an independent academic discipline.

*Learning Outcomes in EP (LOP):*

LOP 5 - Uses methodological and conceptual knowledge by conducting scientific research in the development of new knowledge; has the skills to create technological documentation, including the introduction of modern computer technologies, design, application in scientific and educational activities;

LOP 6 - Has knowledge of pedagogical art and modern pedagogical methods and technology necessary for the effective organization of the educational process in the field of artistic creativity based on the updated content of education;

LOP 7 - Knows the classification of types of art, owns the conceptual apparatus that determines the specifics of art in various epochs of world culture; teaching the values of the social system, manifested in a special form of world and national culture; has knowledge of current trends and trends in the field of visual art and design to create art projects that meet the requirements of the modern market;*Learning Outcomes in Course (LOC):*

LOC 1- recognition of spiritual values of different periods and different peoples; recognition of a sense of patriotism and culture of interethnic relations.

LOC 2-emotional impact on historical and heroic events experienced by their people; improvement of creativity through folk art (decorative, applied, musical, poetic).

LOC 3-respect for the traditions, religion, history, culture, and language of their people.

LOC 4-respect for the ethno-cultural wishes of students consisting of representatives of different nationalities.

Post-requirements: Methodology of scientific research in artistic educational activity

## *Optional component 2*

**Course: Methodology of scientific research in artistic educational activity**

*Intensity of the Course:*5 academic credits

*Module Code:* RMAPE-2

*Module Name:* Research Methodology in Prts and Pedagogical Education

*Prerequisites:* Methodology of scientific research in artistic educational activity

*Purpose:* ensuring deep and purposeful assimilation of pedagogical knowledge by undergraduates in the field of research methodology in artistic educational activities and equipping them with methods of organizing and conducting scientific and pedagogical practice in vocational education organizations.

*Short Description:* The course examines the object and subject of the methodology of art education, the basics of theory, history and methods of art education. The methodology of art education is an area of activity related to scientific research, based on the problems of art education, including primary provisions, categories, basic patterns that must be solved.

*Learning Outcomes in EP (LOP):*

LOP 4 - Is able to analyze, evaluate and synthesize in the course of scientific research the results of pedagogical and individual artistic and creative activities in the field of information, digital, artistic work, graphics and design; has theoretical knowledge and practical skills in the use of modern multimedia technologies and new media in the creation of design art projects;

LOP 5 - Uses methodological and conceptual knowledge by conducting scientific research in the development of new knowledge; has the skills to create technological documentation, including the introduction of modern computer technologies, design, application in scientific and educational activities;

LOP 6 - Has knowledge of pedagogical art and modern pedagogical methods and technology necessary for the effective organization of the educational process in the field of artistic creativity based on the updated content of education;

LOP 7 - Knows the classification of types of art, owns the conceptual apparatus that determines the specifics of art in various epochs of world culture; teaching the values of the social system, manifested in a special form of world and national culture; has knowledge of current trends and trends in the field of visual art and design to create art projects that meet the requirements of the modern market;

LOP 8 - Plans, organizes experimental research, determines approaches to solving the tasks of a scientific project and develops a program and methodology; carries out comprehensive monitoring of scientific research based on diagnostics, analysis and generalization;

*Learning Outcomes in Course (LOC):*

LOC 1 – knowledge of tasks based on the systematic solution of scientific and practical innovative developments and applied research in the field of education;

LOC 2-obtaining knowledge in the field of forming one's own research trajectory based on the principles of scientific ethics.

LOC 3-compliance with the principles of scientific ethics of future researchers; mastering the methods of theoretical analysis of the results of scientific research and computer modeling techniques.

LOC 4-innovative style of scientific and pedagogical thinking and holistic perception of pedagogical reality; awareness of the social essence of the pedagogical profession, compliance with the principles of professional ethics, improvement of personal professional qualities of a teacher.

*Post requisites:* Pedagogical management in the higher school system

## *Optional component 2*

**Course: Scientific and methodological foundations of modern art pedagogical education**

*Intensity of the Course:5 academic credits*

*Module Code: RMAPE-2*

*Module Name: Research Methodology in Prts and Pedagogical Education*

*Prerequisites: Methodology of scientific research in artistic educational activity*

*Purpose:* Formation of theoretical knowledge about the science of modern art pedagogical education, formation of methodological culture of undergraduates and acquisition of skills of independent organization of fundamental and applied research in professional pedagogy.

*Short Description:* Purpose, objectives, general characteristics of the course. The essence and specificity of modern art education. The place of art education in the general education system. Problems and contradictions in the theory and practice of modern art education. Philosophy and art. The principle of integrity in philosophy, general scientific fields and its significance for art education. The relationship between objective and subjective in philosophy and art education

*Learning Outcomes in EP (LOP):*

LOP 4-is able to analyze, evaluate and synthesize in the course of scientific research the results of pedagogical and individual artistic and creative activity in the field of information, digital, artistic work, graphics and design; has theoretical knowledge and practical skills in the use of modern multimedia technologies and new media in the development of design art projects;

LOP 6-has knowledge of the pedagogy of art and modern pedagogical methods and technologies necessary for the effective organization of the educational process in the field of artistic creativity according to the updated content of education;

*Learning Outcomes in Course (LOC):*

LOC 1-understanding of the theoretical and methodological foundations of vocational training; knowledge of the main categories of scientific management, allowing to differentiate modern problems of pedagogical sciences;

LOC 2-The use of new conceptual ideas and directions for the development of pedagogical sciences in the modern educational paradigm and texts; mastering the methodology of scientific research;

LOC 3-application of knowledge about the relationship of methodological, theoretical and applied levels in scientific research on pedagogy;

LOC 4-using the basic scientific concepts of pedagogy and understanding the correlation of common problems of the development of science and society.

Post-requirements: research methodology of graphic design

*Optional component 3*

**Course: Methodology of scientific research of project graphics**

*Intensity of the Course:5 academic credits*

*Module Code: RMAPE-2*

*Module Name: Research Methodology in Prts and Pedagogical Education*

*Prerequisites: Scientific and methodological foundations of modern art pedagogical education*

*Purpose: Fundamentals of professional activity of ideological, methodological and methodical graphic design in the discipline "methodology of scientific research of graphic design", mastering the basic principles of graphic research in the development of design solutions, the methodology of graphic design development.*

*Short Description: Provides the only theoretical and practical training of masters of theoretical methodology of scientific research of graphic art: the subject and objectives of the methodology of scientific research of graphic art. Actual problems of methodology of scientific research of graphic art. General methodology of scientific creativity. The basic concepts of research work in art. The use of methods of scientific cognition, logical rules and rules of scientific research of art.*

*Learning Outcomes in EP (LOP):*

LOP 4-is able to analyze, evaluate and synthesize in the course of scientific research the results of pedagogical and individual artistic and creative activity in the field of information, digital, artistic work, graphics and design; has theoretical knowledge and practical skills in the use of modern multimedia technologies and new media in the development of design art projects;

LOP 5-uses methodological and conceptual knowledge through scientific research in the development of new knowledge; acquires skills in creating technological documentation, including the introduction of modern computer technologies, design, application in scientific and educational activities;

LOP 6-has knowledge of the pedagogy of art and modern pedagogical methods and technologies necessary for the effective organization of the educational process in the field of artistic creativity according to the updated content of education;

LOP 7-to possess the conceptual apparatus defining the features of art of different epochs of world culture, to know the classification of art forms; to teach the values of the social system manifested in a special form of world and national culture, to possess knowledge of modern trends and trends in the field of visual art and design to create art projects that meet the requirements of the modern market;

LOP 8-plans, organizes experimental research work, determines ways to solve problems of a scientific project and develops a program and methodology; carries out comprehensive monitoring of scientific research based on diagnostics, analysis and generalization.

*Learning Outcomes in Course (LOC):*

LOC 1-arm yourself with theory, principles, methods, methods of scientific activity;

Post-requirements: Theory and methodology of design

*Optional component 3*

**Course: Design Theory and Methodology**

*Intensity of the Course:5 academic credits*

*Module Code: RMAPE-2*

*Module Name: Research Methodology in Prts and Pedagogical Education*

*Prerequisites: Methodology of scientific research of project graphics*

*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:* Design theory and methodology. 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 matter, purpose and options. Stages of artistic structuring.

*Learning Outcomes in EP (LOP):*

LOP 4-is able to analyze, evaluate and synthesize in the course of scientific research the results of pedagogical and individual artistic and creative activity in the field of information, digital, artistic work, graphics and design; has theoretical knowledge and practical skills in the use of modern multimedia technologies and new media in the development of design art projects;

LOP 5-uses methodological and conceptual knowledge through scientific research in the development of new knowledge; acquires skills in creating technological documentation, including the introduction of modern computer technologies, design, application in scientific and educational activities;

LOP 6-has knowledge of the pedagogy of art and modern pedagogical methods and technologies necessary for the effective organization of the educational process in the field of artistic creativity according to the updated content of education;

LOP 7-to possess the conceptual apparatus defining the features of art of different epochs of world culture, to know the classification of art forms; to teach the values of the social system manifested in a special form of world and national culture, to possess knowledge of modern trends and trends in the field of visual art and design to create art projects that meet the requirements of the modern market;

*Learning Outcomes in Course (LOC):*

LOC 1 - purpose, patterns, principles, methods and means, forms, content and technologies of the pedagogical process of personality 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 requirements: Methodology and technologies of scientific research

## 2. OPTIONAL COMPONENTS OF THE CYCLE OF MAJOR COURSES

### *Optional component 1*

**Course: Research Methodology and Technologies**

*Intensity of the Course:*5 academic credits

*Module Code:* STAE-3

*Module Name* Science Theory and Art Education

*Prerequisites:* Theory and methodology of design

*Purpose:* preparation of undergraduates for research and teaching activities that connect them with any types of educational institutions.

*Short Description:* Analysis and generalization of views on the methodology of science, integration of goals and principles of scientific research, classification and design of methods, methods of their implementation, clarification of their meaning and content, identification of the features of the application of research methods in art education

*Learning Outcomes in EP (LOP):*

LOP 3 knows the content and tasks of the main directions of research work carried out in educational institutions, and management activities in specialized organizations;

LOP 5 uses methodological and conceptual knowledge through scientific research in the development of new knowledge; acquires skills in creating technological documentation, including the introduction of modern computer technologies, design, application in scientific and educational activities;

LOP 6 has knowledge about the pedagogy of art and modern pedagogical methods and technologies necessary for the effective organization of the educational process in the field of artistic creativity according to the updated content of education;

LOP 8 plans, organizes experimental research work, determines ways to solve the problems of a scientific project and develops a program and methodology; carries out comprehensive monitoring of scientific research based on diagnostics, analysis and generalization.

*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 to independently solve research problems.

LOC 3-is 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-is able to search, create, distribute, apply innovations and creativity in design and technological activities.

Post-requirements: Pedagogical innovation

### *Optional component 1*

**Course: Pedagogical Innovation**

*Intensity of the Course:5 academic credits*

*Module Code: STAE-3*

*Module Name Science Theory and Art Education*

*Prerequisites: Theory and methodology of design*

*Purpose:* preparation of undergraduates for research and teaching activities that connect them with any types of educational institutions.

*Short Description:* Innovations and trends in the clothing industry. Product development innovation. The use of computer technology in the clothing industry. Features of automation of design training. Evolution of CAD "Grace". Design clothes in CAD. Unique properties of materials. Smart fabrics. Nanotechnology in textiles. The use of antibacterial fibers in clothing and underwear. Obtaining and using multilayer materials in the manufacture of clothing

*Learning Outcomes in EP (LOP):*

LOP 3- knows the content and tasks of the main directions of research work carried out in educational institutions, and management activities in specialized organizations;

LOP 5 uses methodological and conceptual knowledge through scientific research in the development of new knowledge; acquires skills in creating technological documentation, including the introduction of modern computer technologies, design, application in scientific and educational activities;

LOP 6 has knowledge about the pedagogy of art and modern pedagogical methods and technologies necessary for the effective organization of the educational process in the field of artistic creativity according to the updated content of education;

LOP 8 plans, organizes experimental research work, determines ways to solve the problems of a scientific project and develops a program and methodology; carries out comprehensive monitoring of scientific research based on diagnostics, analysis and generalization.

*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 to independently solve research problems.

LOC 3-is 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-is able to search, create, distribute, apply innovations and creativity in design and technological activities.

Post-requirements: Pedagogical innovation

*Optional component 2*

**Course: Theory and methodology of additional art education**

*Intensity of the Course:*5 academic credits

*Module Code:* STAE-3

*Module Name* Science Theory and Art Education

*Prerequisites:* Pedagogical innovation

*Purpose:* Additional art education is the formation of the personality of a new specialist, prepared for work, professionally working on new technologies, comprehensively trained in the Polytechnic field, creatively oriented to methodological experience, widely using the ideas of innovators.

*Short Description:* Purpose, objectives, general characteristics of the course. Tasks of additional education. The main directions of additional education. Problems of additional art education, mastering the latest technologies and modern teaching of painting, graphics, decorative and applied arts, design, computer graphics and art history, theoretical disciplines. Theoretical, methodological and psychological foundations of teaching artistic and aesthetic disciplines in the system of additional art education

*Learning Outcomes in EP (LOP):*

LOP 4-is able to analyze, evaluate and synthesize in the course of scientific research the results of pedagogical and individual artistic and creative activity in the field of information, digital, artistic work, graphics and design; has theoretical knowledge and practical skills in the use of modern multimedia technologies and new media in the development of design art projects;

LOP 5-uses methodological and conceptual knowledge through scientific research in the development of new knowledge; acquires skills in creating technological documentation, including the introduction of modern computer technologies, design, application in scientific and educational activities;

LOP 6-has knowledge of the pedagogy of art and modern pedagogical methods and technologies necessary for the effective organization of the educational process in the field of artistic creativity according to the updated content of education;

LOP 7-to possess the conceptual apparatus defining the features of art of different epochs of world culture, to know the classification of art forms; to teach the values of the social system manifested in a special form of world and national culture, to possess knowledge of modern trends and trends in the field of visual art and design to create art projects that meet the requirements of the modern market;

*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-requirements: modern problems of science and education

*Optional component 2*

**Course: Modern problems of science and education**

*Intensity of the Course:*5 academic credits

*Module Code:* STAE-3

*Module Name* Science Theory and Art Education

*Prerequisites:* Theory and methodology of additional art education

*Purpose:* Identification of the problem of interrelation and interaction in the education system on modern problems of science and education.

*Short Description:* Science as a socio-cultural phenomenon. Knowledge, cognition and its forms. Science and practice: the problem of interrelation and interaction in the education system. Scientific knowledge as a system and activity. The system of Kazakh education and the concept of its modernization. Sources, factors and main approaches to the modernization of the vocational education system. The problem of developing the content and structure of vocational education.

*Learning Outcomes in EP (LOP):*

LOP 2-owns the theoretical and methodological foundations of the development of pedagogical and psychological science, management processes and teaching methods, the essence and content of psychological and pedagogical research;

LOP 5-uses methodological and conceptual knowledge through scientific research in the development of new knowledge; acquires skills in creating technological documentation, including the introduction of modern computer technologies, design, application in scientific and educational activities;

LOP 6-has knowledge of the pedagogy of art and modern pedagogical methods and technologies necessary for the effective organization of the educational process in the field of artistic creativity according to the updated content of education;

*Learning Outcomes in Course (LOC):*

LOC 1 - ensuring at the professional and cognitive level that students assimilate the features and difficulties of studying at a university, types of educational activities related to academic work, the essence and significance of the scientific organization of mental work.

LOC 2-expanding the skills of choosing effective ways, directions of organizing the content of various disciplines and forms of education at the university on a scientific basis.

Post-prerequisites: Theory of the history of world and contemporary art

### *Optional component 3*

**Course: Theory of the History of World and Contemporary Art**

*Intensity of the Course:*5 academic credits

*Module Code:* STAE-3

*Module Name* Science Theory and Art Education

*Prerequisites:* Modern problems of science and education

*Purpose:* Formation of subject competencies of history and theory of art, necessary in the field of historical theory of world and contemporary art

*Short Description:* Purpose, objectives, general characteristics of the course. Tasks of additional education. The main directions of additional education. Problems of additional art education, mastering the latest technologies and modern teaching of painting, graphics, arts and crafts, design, computer graphics and art history, theoretical disciplines. Theoretical, methodological and psychological foundations of teaching art and aesthetic disciplines in the system of additional art education

*Learning Outcomes in EP (LOP):*

LOP 4-is able to analyze, evaluate and synthesize in the course of scientific research the results of pedagogical and individual artistic and creative activity in the field of information, digital, artistic work, graphics and design; has theoretical knowledge and practical skills in the use of modern multimedia technologies and new media in the development of design art projects;

LOP 7-to possess the conceptual apparatus defining the features of art of different epochs of world culture, to know the classification of art forms; to teach the values of the social system manifested in a special form of world and national culture, to possess knowledge of modern trends and trends in the field of visual art and design to create art projects that meet the requirements of the modern market;

*Learning Outcomes in Course (LOC):*



LOC 1-the essence of problems in professional activity and knowledge of the history and theory of art in the education system;

LOC 6-the use of information technology to solve professional problems.

Post-requirements: psychology of artistic creativity

#### *Optional component 3*

**Course: Psychology of Artistic Creativity**

*Intensity of the Course:*5 academic credits

*Module Code:* STAE-3

*Module Name* Science Theory and Art Education

*Prerequisites:* Theory of the history of world and contemporary art

*Purpose:* Mastering by undergraduates of the features of the training course, social, social, educational phenomena in the system of higher education, ways, directions, methods and techniques of combining the pedagogical, psychological, didactic content of the modern educational system with the values of scientific knowledge. Mastering technological techniques, materials and tools, directions of scientific organization of the educational process of the university in accordance with modern pedagogical requirements.

*Short Description:* The course examines the essence of the concepts "psychology of art", "psychology of artistic creativity", etc. Psychology of art: art as cognition, art as an artistic device, art as psychoanalysis, art as catharsis. The problem of artistic creativity. The relationship between scientific and artistic creativity. Pedagogical conditions for the development of students' artistic activity: imagination, intuition, thinking, etc. Psychological aspects of artistic creativity

*Learning Outcomes in EP (LOP):*

LOP 2-owns the theoretical and methodological foundations of the development of pedagogical and psychological science, management processes and teaching methods, the essence and content of psychological and pedagogical research;

LOP 6-has knowledge of the pedagogy of art and modern pedagogical methods and technologies necessary for the effective organization of the educational process in the field of artistic creativity according to the updated content of education;

LOP 7-to possess the conceptual apparatus defining the features of art of different epochs of world culture, to know the classification of art forms; to teach the values of the social system manifested in a special form of world and national culture, to possess knowledge of modern trends and trends in the field of visual art and design to create art projects that meet the requirements of the modern market;

*Learning Outcomes in Course (LOCK):*

LOC 1 - to ensure at the professional and cognitive level that students assimilate the features and difficulties of studying at a university, types of educational activities related to academic work, the essence and significance of the scientific organization of mental work;-to know the essence and psychological and physiological features of mental work.

Post-requirements: Management in art

#### *Optional component 4*

**Course: Management in Art**

*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:* In the course of studying the discipline, knowledge is given about the importance of management in art, the role and place of art education. Principles and methods of management activities in the field of education and art. The role of the manager's personality in improving the effectiveness of management in art. Organizational and communicative, constructive, gnostic and industrial-technical features of the activity of the teacher of artistic

labor. Pedagogical skills and professionalism of the services. Pedagogical culture of the teacher. Innovative activity of a teacher.

*Short Description:* The course is aimed at studying a number of rules applicable in certain conditions, the goal, the main function in the activity of art, determining the effectiveness of the activity, the needs of consumers of art and its value. Management technologies in the form of some kind of art and what are the processes in management are promising. Characteristic features of marketing in art, its strategy and types of advertising activities. Sponsorship, charitable patrons, etc.

*Learning Outcomes in EP (LOP):*

LOP 3 knows the content and tasks of the main directions of research work carried out in educational institutions, and management activities in specialized organizations;

LOP 4-is able to analyze, evaluate and synthesize in the course of scientific research the results of pedagogical and individual artistic and creative activities in the field of information, digital, artistic work, graphics and design; has theoretical knowledge and practical skills in the use of modern multimedia technologies and new media in the development of design art projects;

LOP 7-to possess the conceptual apparatus defining the features of art of different epochs of world culture, to know the classification of art forms; to teach the values of the social system manifested in a special form of world and national culture, to possess knowledge of modern trends and trends in the field of visual art and design to create art projects that meet the requirements of the modern market;

*Learning Outcomes in Course (LOCK):*

LOC 1 - demonstrates the understanding and integration of artistic knowledge in the field of art management, based on the ideas of interdisciplinary communication in the field of art education;

LOC 2-mastering the management of a management system using knowledge in practice based on a critical attitude to them and systematic thinking based on the information provided.

Post requirements: Business planning of an art project

#### *Optional component 4*

##### **Course: Business Planning of an Art Project**

*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:* Purpose, functions and structure of the business plan. Features of business planning in a 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 gallery project. Legal structure. Room. Staff. Costs. Profit.

*Learning Outcomes in EP (LOP):*

LOP 3 knows the content and tasks of the main directions of research work carried out in educational institutions, and management activities in specialized organizations;

LOP 4 is able to analyze, evaluate and synthesize in the course of scientific research its own artistic and creative actions and pedagogical results in the field of information, digital, artistic work, graphics and design;

LOP 6 acquires knowledge about the pedagogy of art and modern pedagogical methods and technologies necessary for the effective organization of the educational process in the field of artistic and technical creativity on the updated content of secondary education;

LOP 7 carries out comprehensive monitoring of scientific research based on diagnostics, analysis and generalization;

LOP 8 plans, organizes experimental research, determines approaches to solving the tasks of a scientific project and can develop a program and methodology.

Learning Outcomes in Course (LOC):

LOC 6 - demonstrates the understanding and integration of artistic knowledge in the field of art management, based on the ideas of interdisciplinary communication in the field of art education;

Post-requirements: computer technologies in project scientific educational activity

*Optional component 5*

**Course: Computer Technologies in Design, Scientific and Educational Activities**

*Intensity of the Course:6 academic credits*

*Module Code: MPTSEA-4*

*Module Name Modern Pedagogical Technologies in Scientific and Educational Activities*

*Prerequisites: Business planning of an art project*

*Purpose:* The basic principles of computer technology and software design in project scientific and educational activities and the identification of sources of communication with the subject environment and socio-economic phenomena, strengthening interest in the chosen profession, the development of imagination and design abilities.

*Short Description:* Introduces modern computer technologies in design and their application in design, scientific and educational activities, studying information systems and technologies, their software. Information technology in science and education; "Multimedia technologies".

*Learning Outcomes in EP (LOP):*

LOP 4 is able to analyze, evaluate and synthesize in the course of scientific research its own artistic and creative actions and pedagogical results in the field of information, digital, artistic work, graphics and design;

LOP 5 uses methodological and conceptual knowledge, conducting scientific research in the development of new knowledge;

LOP 6 acquires knowledge about the pedagogy of art and modern pedagogical methods and technologies necessary for the effective organization of the educational process in the field of artistic and technical creativity on the updated content of secondary education;

LOP 7 carries out comprehensive monitoring of scientific research based on diagnostics, analysis and generalization;

LOP 8 plans, organizes experimental research, determines approaches to solving the tasks of a scientific project and can develop a program and methodology.

Learning Outcomes in Course (LOC):

LOC 1-forms all the elements of the process of artistic creation 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

Postrequirements: A workshop on technological training  
Post requirements: Innovative technologies in professional training

*Optional component 5*

**Course: Computer Graphics and Modeling**

*Intensity of the Course:6 academic credits*

*Module Code: MPTSEA-4*

*Module Name Modern Pedagogical Technologies in Scientific and Educational Activities*

*Prerequisites: Computer technologies in project, scientific and educational activities*

*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 main directions of computer graphics. Basic principles of modeling. Classification of models. Technology for creating models. Graphic positions in modeling. Stages of modeling. Building the model. Execution of drawings with technical and economic calculations. Study of the main drawings of the product, drawings of small parts, model features. Analysis and processing of simulation results. Manufacturing process modeling.

*Learning Outcomes in EP (LOP):*

LOP 4-is able to analyze, evaluate and synthesize in the course of scientific research the results of its own artistic and creative activity and pedagogical activity in the field of information, digital, artistic work, graphics and design;

LOP 5-uses methodological and conceptual knowledge, conducting scientific research in the development of new knowledge;

LOP 8-plans, organizes experimental research, determines approaches to solving the tasks of a scientific project and can develop a program and methodology.

*Learning Outcomes in Course (LOC):*

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 in the model it becomes a future product.

Postrequirements: a workshop on technological training.

#### *Optional component 6*

**Course: Artistic Technology and Applied Creativity**

*Intensity of the Course:* 6 academic credits

*Module Code:* MPTSEA-4

*Module Name* Modern Pedagogical Technologies in Scientific and Educational Activities

*Prerequisites:* Computer graphics and modeling

*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:* Theoretical foundations of training future teachers to guide the technical and decorative-applied creativity of schoolchildren. Management of arts and crafts and technical creativity of schoolchildren. Analysis and design of a model for preparing future teachers for the leadership of decorative, applied and technical creativity of schoolchildren. Organization of technical and artistic-applied creativity of students.

*Learning Outcomes in EP (LOP):*

LOP 4 is able to analyze, evaluate and synthesize in the course of scientific research its own artistic and creative actions and pedagogical results in the field of information, digital, artistic work, graphics and design;

LOP 5 uses methodological and conceptual knowledge, conducting scientific research in the development of new knowledge;

LOP 6 acquires knowledge about the pedagogy of art and modern pedagogical methods and technologies necessary for the effective organization of the educational process in the field of artistic and technical creativity on the updated content of secondary education;

LOP 7 carries out comprehensive monitoring of scientific research based on diagnostics, analysis and generalization;

LOP 8 plans, organizes experimental research, determines approaches to solving the tasks of a scientific project and can develop a program and methodology.

*Learning Outcomes in Course (LOC):*

LOC 1-forms all the elements of the process of artistic creation in history and professional skill.  
LOC 2-owns the technique of modern creative design  
LOC 3-is able to develop methodological recommendations for evaluating creative projects  
Post requirements: A workshop on technological training

*Optional component 6*

**Course: Technological Training Workshop**

*Intensity of the Course:*6 academic credits

*Module Code:* MPTSEA-4

*Module Name* Modern Pedagogical Technologies in Scientific and Educational Activities

*Prerequisites:* Artistic Technology and Applied Creativity

*Purpose:* To know the types of modern pedagogical technologies in the theory and practice of pedagogy and prepare them for creative use in the educational process.

*Short Description:* The discipline is the use of the technological training of students. In the course of studying the classification of technological equipment, its purpose, design and principle of operation. In the process of mastering the discipline, students acquire skills in working with equipment, taking into account ergonomic requirements and safety rules. The study of the course is focused on the formation of technological competence in the production of a material product

*Learning Outcomes in EP (LOP):*

LOP 4-is able to analyze, evaluate and synthesize in the course of scientific research the results of its own artistic and creative activity and pedagogical activity in the field of information, digital, artistic work, graphics and design;

LOP 5-uses methodological and conceptual knowledge, conducting scientific research in the development of new knowledge;

LOP 6-has knowledge of the pedagogy of art and modern pedagogical methods and technologies necessary for the effective organization of the educational process in the field of artistic and technical creativity on the updated content of secondary education;

LOP 7-performs comprehensive monitoring based on diagnostics, analysis and generalization of scientific research;

LOP 8-plans, organizes experimental research, determines approaches to solving the tasks of a scientific project and can develop a program and methodology.

*Learning Outcomes in Course (LOCK):*

LOC 1 - to know the essence of science in the field of education; to know the essence of basic concepts;

LOC 2-Selection of research tasks in accordance with the tasks set; finding information in solving the problem of choice, using various information resources.

LOC 3 -design of research activities;

LOC 4 is a creative approach to the organization of scientific and pedagogical research.

Postrequirements: modern pedagogical technologies in teaching graphics and design

*Optional component 7*

**Course: Modern Pedagogical Technologies in Teaching Graphics and Design**

*Intensity of the Course:*6 academic credits

*Module Code:* MPTSEA-4

*Module Name* Modern Pedagogical Technologies in Scientific and Educational Activities

*Prerequisites:* Workshop on technological training

*Purpose:* This discipline develops undergraduates' economic thinking, the ability to model business processes and get acquainted with the methods of transforming business processes, develop business plans for the creation and development of new organizations.

*Short Description:* The discipline presents various personality-activity and personality-oriented pedagogical technologies; information and communication technologies (multimedia, interactive courses, problematic, anticipatory and active, heuristic learning, pedagogy of cooperation, round table discussion, project method, etc. in teaching graphic arts disciplines; Features of the organization of the learning process based on the case method.

*Learning Outcomes in EP (LOP):*

LOP 4-is able to analyze, evaluate and synthesize in the course of scientific research the results of its own artistic and creative activity and pedagogical activity in the field of information, digital, artistic work, graphics and design;

LOP 5-uses methodological and conceptual knowledge, conducting scientific research in the development of new knowledge;

LOP 6-has knowledge of the pedagogy of art and modern pedagogical methods and technologies necessary for the effective organization of the educational process in the field of artistic and technical creativity on the updated content of secondary education;

LOP 7-performs comprehensive monitoring based on diagnostics, analysis and generalization of scientific research;

LOP 8-plans, organizes experimental research, determines approaches to solving the tasks of a scientific project and can develop a program and methodology.

*Learning Outcomes in Course (LOCK):*

LOC 1 - The use of modern computer technologies in teaching graphic literacy. Monitoring the progress of training, their tasks and content

Post requirements: Technology of training in the profile of "Graphics and design"

#### *Optional component 7*

#### **Course: Teaching Technology for the "Graphics and Design" Profile**

*Intensity of the Course:* 6 academic credits

*Module Code:* MPTSEA-4

*Module Name* Modern Pedagogical Technologies in Scientific and Educational Activities

*Prerequisites:* Modern pedagogical technologies in teaching graphics and design

*Purpose:* Carrying out research and methodological works that ensure the introduction of new information technologies into the educational process and the main directions of the implementation of informatization of the vocational education system

*Short Description:* Fundamentals of training technology for the "Graphics and Design" profile. Graphic systems, methods, and information visualization tools. Graphic modeling and design. Methods of graphics and design. Design and computer graphics. Computer-aided design systems (CAD); STAPRIM, "Grace", "Leko", "ASSOL", Lectra, Gerber. Construction of computer-aided design, computer-aided and visualization.

*Learning Outcomes in EP (LOP):*

LOP 4 is able to analyze, evaluate and synthesize in the course of scientific research its own artistic and creative actions and pedagogical results in the field of information, digital, artistic work, graphics and design;

LOP 5 uses methodological and conceptual knowledge, conducting scientific research in the development of new knowledge;

LOP 6 acquires knowledge about the pedagogy of art and modern pedagogical methods and technologies necessary for the effective organization of the educational process in the field of artistic and technical creativity on the updated content of secondary education;

LOP 7 carries out comprehensive monitoring of scientific research based on diagnostics, analysis and generalization;

LOP 8 plans, organizes experimental research, determines approaches to solving the tasks of a scientific project and can develop a program and methodology.

*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 training and individual characteristics of students;

Post-requirements: no (there will be no lesson)