CATALOGUE OF ELECTIVE DISCIPLINES

6B014 – Teacher training with a subject specialization of general development (Artistic processing of wood and other materials)

Cycle of disciplines	Name of disciplines and their main sections	Laboriousness (ECTS)
CGED ***1***	**THE CYCLE OF GENERAL EDUCATIONAL DISCIPLINES (CGED)**	***5***
1.	**Ecology and sustainable development**	**5**
	Basic laws of functioning of living organisms, ecosystems of different levels of organization, biosphere as a whole, their stability; interaction of components of biosphere and ecological consequences of economic activity of the person, especially in the conditions of intensification of nature management; modern representations about concepts, strategies and practical tasks of sustainable development in various countries and RK; problems of ecology, environmental protection, sustainable development	
CBD 2	**CYCLE OF BASIC DISCIPLINES (CBD)**	**56**
1.	**Management in education and electronic documentation**	**5**
	Scientific and methodological foundations of pedagogical management. School management. Regularities and principles of management in school. Functions and methods of pedagogical management. Information technologies in management. Leadership style. Ethics and culture of management. Marketing. Competitiveness of the organization of education. Electronic logbook of classes, automatic distribution of classes, completed documents and reports control of visits of teachers and students of others.	
2.	**Inclusive education**	**5**
	The role of inclusive education in social and educational policy. Legal support, models, forms, types of inclusive education. Psychological and pedagogical problems of education and upbringing of children with disabilities in inclusive education. Psychological and pedagogical technologies of work with children with disabilities and their families. Interaction with teachers and psychologists in the organization of inclusive education	
3.	**Pedagogical measurement**	**5**
	Modern means of evaluation of learning outcomes. The problem of evaluation activity. Model of technology of criterion estimation. The principles of assessment. Assessment stages and tools. Criteria table – the subject heading. Formative assessment and summative (internal and external) assessment. Moderation of summative evaluation results. Age criteria for evaluation of educational results. Self-evaluation and mutual evaluation with peers. Pedagogical objectives the portfolio. Functions and composition of the portfolio.	
4.	**Pedagogical practice**	**4**
5.	**Techniques and technologies of manufacture of wood products and other materials**	**6**
	Traditional and modern technologies of artistic processing of wood and other materials. Plastic properties of materials. Mastering the sequence of creating decorative and applied wood products using painting, carving, weaving, inlay and other technologies.	
6.	**Basics of artistic processing of wood and other materials**	**6**
	Wood and its varieties. Equipment for wood processing; preparation of material and tools. Technological bases of artistic processing of wood and other materials. Characteristics of thread types: geometric (triangular-notched, bracket or nail, flat relief) and sculptural (volume). The value of solar symbolism for the formation of objects. The main ornamental motifs. Sawing with a jigsaw. Sawn and flat-relief	

	carving. Methods of burning.	
7.	**Industrial training**	**4**
	Occupational safety and TB. Work with different machines. The requirement to the workplace of the Carver. Organization of the workplace of the Carver. The tool of the Carver. Preparation of the tool for carving. Safety when working on a lathe. Preparation of the tool for carving. Preparation of the material for turning, the requirement in the workpiece. Mastering techniques and methods of turning. Turning cylindrical parts. Turning of details of products of a shaped surface. Finishing products made on a lathe.	
8.	**Fundamentals of materials science**	**4**
	The structure of wood and wood. Annual layers, early and late wood: properties and specificity. Microscopic structure of wood. Physical and chemical properties of wood. Wood moisture content and the properties associated with its change. Internal stresses, cracking and warping. Wood density. Thermal conductivity, sound conductivity and electrical conductivity of wood. Technological properties of wood and other.	
9.	**Traditional metal processing techniques**	**4**
	Traditional and modern technologies of processing of metals and alloys, manufacturing of blanks and parts by machining, casting, deformation, welding and other methods. Physical and chemical processes occurring in the preparation of blanks and products from structural materials by various methods. Traditional metal processing techniques. Artistic processing of materials and technical means for repair, restoration and manufacture of jewelry on individual orders. and jewelry making. Correction. Soldering jewelry. Bleaching. Cleaning and etching of jewellery.	
10.	**Design of wood products and other materials**	**4**
	The main types of design in the artistic processing of wood and other materials. Specificity and artistic advantages of certain types of design of wood products and other materials. Execution processes sketches of industrial products and schemes of processing of various materials. The process of artistic sketching, development of compositions. Use graphic editors to design wood products and other materials.	
11.	**Decoration of wood and other materials**	**4**
	The law is dominant. The law of integrity. Law of equilibrium. The distribution of masses, the presence of the center of gravity, the axis of symmetry, proportionality and static in the composition. The law of typing. Contrast, nuance, identity. Scale. Proportions. The definition of "proportion". Symmetry. Asymmetry. The meaning of rhythm. Statics. Dynamics. Compositional center. Compositional shaping. The main features and patterns of composition in the artistic processing of wood and other materials.	
12.	**Design of wood products and other materials**	**4**
	Processes of execution of sketches of industrial products and schemes of processing of products from a tree and other materials. The process of sketching, development of compositions. Procurement operations. Equipment preparation. Calculation of materials. Operations of processes of production of preparations. The manufacture of musical instruments. Material characteristic. Analysis of material characteristics.	
13.	**Computerl graphics**	**4**
	Basics of computer graphics. Types of computer graphics (raster, vector, fractal). Applied computer graphics software. Hardware (technical) means of computer graphics. 3D-modeling. Basics of multimedia technologies.	