

# **PEDAGOGY AND PSYCHOLOGY OF HIGHER EDUCATION**

(name of discipline)

## **OUTLINE**

### **TO THE CURRICULUM OF THE INSTITUTION OF HIGHER EDUCATION**

Specialties 7-06-0716-03 Instrumentation

Profiling Monitoring and control in electromechanical systems

	Form of higher education	
	Full-time	Correspondence
Course	1	1
Semester	2	2
Lectures, hours	34	6
Practical (seminar) classes, hours	34	6
Credit, semester	2	2
Classroom hours in the academic discipline	68	12
Independent work, hours	148	204
Total hours in the academic discipline / credits	216/6	216/6

#### 1. Summary of the content of the discipline

The discipline "Pedagogy and psychology of higher school" belongs to the cycle of socio-humanitarian disciplines. Its goal: the formation of a system of scientific knowledge, skills and abilities.

#### 2. The aim of the study discipline

The purpose of the study discipline is the formation of undergraduates' universal pedagogical competence: применять психолого-педагогические методы и информационно-коммуникационные технологии в образовании и управлении.

#### 3. Objectives of the discipline

The objectives of the discipline are aimed at forming the following pedagogical competencies of the master's degree students:

- competencies in the field of theoretical foundations of higher education, defining its functions and target settings, outpacing nature, conditions and directions of modernization in the digital era, based on global trends and domestic traditions of higher education development;
- the competencies related to the study and consideration of age, gender and psychological characteristics of students, mechanisms of their motivation and adaptation to learning in higher education institution and working life;
- competencies related to designing on the basis of competence and interdisciplinary approaches the goals, results and content of learning at the levels of mastering a particular academic discipline and organization of the training session;
- competencies, aimed at organization and implementation of practice-oriented and applied learning process, implementation of problem-research, active, collective methods and forms of learning; activation of students' independent work, implementation of various forms of students' research activities;
- competencies, providing mastery of effective pedagogical technologies, realization of mixed and distant learning, improvement of educational process, including digital technologies

- competencies, facilitating organization of students' upbringing process, productive solution of communicative problems of pedagogical activity
- competencies promoting organization of students' education process, productive solution of communicative problems of pedagogical activity, development of students' team and personal-professional self-realization of an individual student;
- competencies, connected with the implementation of pedagogical monitoring, diagnostics of educational results; management of the educational process;
- competences of continuous professional self-education and personal self-improvement.

As a result of the study of the discipline the master should:

know:

- conceptual apparatus, methods of pedagogy and psychology of higher education; new educational trends and directions, regularities, principles of development and functioning of higher education; advanced pedagogical experience (including international) and innovations in higher education;
- ways of taking into account individual, age-specific features of students, allowing to personalize their educational trajectories; new requirements to graduates' competences, connected with digital revolution; conditions of students' motivation and adaptation to learning and social and labor activity; professional requirements to higher school teacher as educator, teacher, methodologist and researcher;
- methodological approaches to constructing goals, results and content of higher education, educational planning documentation that determines the content of education; approaches and principles of development and application of modern educational and methodological support of educational process, including digital format;
- the main methods of learning, effective educational technologies, including information and communication technologies, forms and means of organizing the learning process, including blended and distance learning;
- psycho-pedagogical methods and techniques of activation of independent and research work, project activity of students;
- basic methods, forms and means of organization of implementation of education process in higher education institution (or study group); psychological and pedagogical features and ways of effective interaction and cooperation of teachers and students, pedagogical guidance of student teams and self-management bodies;
- basics of pedagogical management and monitoring;

be able to:

- design the content of training, establish interdisciplinary links; apply, develop competence, interdisciplinary, heuristic (creative) tasks and assignments;
  - to design and organize various forms of training sessions in full-time, mixed and distance forms based on the use of effective pedagogical and information and communication technologies, active and collective forms and methods of learning;
  - to organize and implement, taking into account individual characteristics and educational needs of students, educational activities and educational work in general, extracurricular independent work, project and research activities of students;
  - develop modern educational and methodological support of the educational process (including digital format), diagnostic and control tools;
  - establish pedagogically appropriate relations with all participants in the educational process;
- have the skill:
- modern forms, methods and technologies of training, education and development of the student's personality;
  - skills in organization of educational process and diagnostics of its results, its management taking into account individual and personal peculiarities of students;

- methods and techniques of reflection and adequate self-assessment of own pedagogical activity, development and implementation of projects (programs) of professional self-education and personal self-improvement.

4. Requirements and forms of current and interim certification.

Current – control work (written form).

Intermediate – offset (oral form).