

FORM AND CONTENT OF ORGANIZING INDEPENDENT EDUCATION IN TRAINING LESSONS

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The goal of independent education : to develop students' interest in various subjects; formation of the ability to apply theoretical knowledge in practice; development of independent thinking, creative ability; broadening one's worldview; development of practical skills and competencies; introduction to forms and methods of modern educational technologies; orientation to profession, technical, design and scientific-research works; development of skills for working with additional literature, using the Internet, electronic and multimedia textbooks; to keep abreast of the latest advances in science, technology and technology.

A systematic approach to the organization of all forms of independent education based on advanced educational technologies. coordination and integration of all its stages; strict control over the quality of execution; creation and improvement of control mechanism.

Based on the purpose of independent education (acquiring new knowledge, strengthening, increasing creative activity, forming practical skills and qualifications, etc.); precise definition of tasks to be performed; students are sufficiently aware of the algorithm for completing tasks and the methods of modern educational technology; correct determination of advice and other types of assistance (giving instructions and instructions, explaining the content and essence of the subject, providing insight into the methods of completing tasks, solving problem situations together, etc.); clearly defining the calculation form and assessment criteria; clearly defining the time, form and types of supervision (practical, seminar, laboratory sessions, specially allocated time for consultation or supervision, text of a lecture or report, completed tasks, homework book, supervision works, demonstration equipment, creative works, explaining the nature of the work performed giving, stating in written form, etc.) it is necessary to fulfill the requirements.

Types of independent education. Repetition and practice. During repetition and training, the pedagogue repeats the knowledge acquired during the lesson, analyzes, summarizes, thinks, remembers, and develops skills and competencies for performing practical tasks.

Independent acquisition of new knowledge. In the independent assimilation of new knowledge, the student acquires the skills of searching for information sources, working on them, summarizing, coherently expressing thoughts, learns the methods and methods of independent education.

Doing creative work. When performing tasks of a creative nature, the student acquires the skills of identifying and analyzing problematic situations, making independent decisions, learns to creatively approach problem solving, prepare visual aids, get acquainted with the ways of solving scientific description tasks that require research.

Forms of independent education. Studying science chapters and topics. It is appropriate for first-year students who do not yet have independent learning skills, and its results are checked through a

completed report, an individual assignment, a seminar, etc. **Mastering part of lectures on handouts.** In this case, the pedagogue pays great attention to the presentation of the main material. Handouts are prepared for each lecture. This form of independent education is suitable for advanced students studying general and special subjects. The results of these works are checked at the appropriate control stages.

Working with automated training and control systems. It is conducted as part of preparation for lectures, laboratory work or practical training and applies to students of all levels. **Special, scientific literature work on science sections and topics.** These are important for students of all levels when performing calculation-graphic assignments, abstracts, coursework projects, graduation qualification work. Its results are checked at the appropriate rating-control stages.

Learning new techniques and technologies. These are important for conducting qualification practices, participating in research, and fulfilling production orders. Results will be checked upon receipt of reports. **An in-depth study of the subject or topics related to the student's research.** It is suitable for students of all levels. Independent learning activities using an active learning method (interactive methods, discussion, conference, seminar, etc.) are prepared on current problems of science, technology and technology.

In the organization of student independent education, taking into account specific subject characteristics, mastery level and ability, the following forms are used: independent mastery of some theoretical topics with the help of additional literature; preparation of information (abstract) on the given topic; seminar and practical training, preparation for laboratory work; Completing a calculus-graph, course work (project); preparation of qualification thesis; finding solutions to existing problems in practice; creating layouts, models, samples, etc.; preparation of scientific articles, conference abstracts, etc. k.

Duties of the head of independent education:

- creating a working plan and program suitable for all forms of independent education and ensuring approval at the department meeting;
- ensuring students' timely participation in independent educational activities;
- providing practical help and advice to students during independent education, providing referrals; control over the progress of independent education;
- when choosing examination questions, problems, examples, focus on the fact that their answers are only in the text, thereby reducing the time the student spends on finding the answers;
- taking into account the age and individual characteristics of students when teaching how to complete assignments;
- to pay attention to the mistakes that students make more often in each work and to eliminate them;
- making changes to the program of the independent education plan in agreement with the department;
- providing students with independent educational diaries; solving all problems encountered in organizing and conducting independent education;
- organization of discussion and evaluation of students' reports on independent education in the department;
- to submit the general report on independent education and the record of grades to the deputy head of educational affairs.

Requirements for an independent education leader :

- modern technologies of organizing independent education of students and what they are aimed at;
- making changes to independent educational assignments, analyzing, summarizing and comparing them;
- selection of educational materials containing new technical and technological achievements;
- providing samples from additional textbooks and training manuals;
- to divide the independent educational material into separate parts as much as possible;
- to take into account all the manifestations of the elements of independent education in activity;
- quick strengthening of a positive reaction (control-correction); to achieve a high mastery rate by practicing (actions), repeating many times;
- to have a clear idea about the possibilities of modern pedagogical technology, interactive methods in increasing the effectiveness of independent education;
- important aspects of pedagogical technology that are fundamentally different from traditional independent education methods by clarifying independent learning goals;
- The content of Bloom's taxonomy and its practical help for the teacher;

- to determine which category of educational goals correspond to the elements of independent educational material;
- a general method of clarifying independent learning goals, expressing them in verbs that mean actions to achieve specific results;
- to determine what students know in the cognitive (cognitive), affective (emotional), psychomotor (movement) areas after completing each independent task;
- test types, forms, advantages and disadvantages, methods of creating test assignments.

Student tasks in independent education:

- attending independent training sessions on time and strictly observing the deadlines;
- full compliance with internal procedures, equipment safety and labor discipline at the place of independent education;
- regularly fill in a separate diary about independent education;
- to carry out the tasks and instructions of the leader; collecting, analyzing, comparing and summarizing the necessary resources for independent educational tasks;
- execution of an independent work plan and preparation of a written report based on the collected data; submit the report in writing to the department along with the written conclusion (review) of the leader within the specified period and pass the test according to the results;
- drawing up schemes and drawings in independent work;
- grouping and justifying a problem with the help of sources, according to a characteristic of the material;
- understanding the sequence of some situations and events;
- to answer the teacher's questions independently and precisely;
- compare differences between previously learned and new information;
- determining the connection between the event and evidence; extraction of primary, secondary and secondary information on the topic;
- study the material based on the search for additional materials related to the topic, distinguish the main one, draw a conclusion;
- searching for issues related to information in other disciplines and finding solutions to them;
- create independent new problems and expressions using theorems and rules;
- justifying their differences and similarities by comparing several events;
- work on correcting and eliminating errors; write an abstract, lecture, term paper, etc.;
- self-assessment, etc.

Making a report on independent education. Where was independent education organized and conducted? Who is the Independent Education Leader? How did the leader help? Results of independent education, proposals and wishes for organizing future independent education.

The materials of the report on the results of independent education are written clearly and neatly on standard paper of A4 size, in computer or handwritten form. In the report table, scheme, picture, diagram, etc., to them belongs to comment and analyses own on the contrary to find need. The report is 10-15 pages long and must be submitted to the department within the specified period. The report will be submitted to the defense if there is a positive review of the head appointed by the department.

The report should contain information about the specific tasks performed by the student in the process of independent education, the methods and methods of their implementation, the obtained results, indicators, the results of independent education, etc. The materials should be placed in a special album or white folder in chronological order, well equipped, and the student's name, stage, when and where the independent work was conducted, and the supervisor should be clearly written on top of it.

Irregularity of independent learning materials (diary filled in incorrectly, not approved, work plan, incorrect report, incompleteness of material, late delivery, etc.) will have a negative impact on the overall grade. A student who has not completed independent study assignments, received an unsatisfactory review of his work or an unsatisfactory grade from the defense of the report, will be sent to complete these assignments again at his own expense during the vacation.

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