METHODS OF ORGANIZING INDEPENDENT STUDY OF STUDENTS IN THE CREDIT-MODULE SYSTEM

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Annotation. This article analyzes the issues of organizing independent study of students in the credit-module system and develops practical recommendations.

Keywords. FAQ, forum, test solution, colloquium, case study, glossary, link, chart, Q/A, review, SWOT, interview.

The independent work of the students (IWS) is a student's specific learning activity, which is aimed at independently performing didactic tasks, interested in studyingtirishga and increasing knowledge in a particular field of science. The content of TMI will be associated with the performance of practical tasks that allow to formulate logical thinking, creative activity, research approach in the mastering of the teaching material. Usually IWS includes the independent work of the student (Ormi) under the guidance of the teacher, which is carried out outside the audience, together with the full independent work of the student.

In the form of daytime training, the total hours of IWS in bakalavriat are half the volume of the fan, and also almost half of it is allocated to the mid-term. In correspondence education, it is desirable that the volume of IWS is 4/5 part of the volume of science.

The ORIWS workload is not entirely part of the teacher's workload, but for the contact classes the teacher is assigned a separate workload (calculation work, course work, course project, graduation work, master's dissertation, research supervisor's guide, basic doctoral student's guide, etc.).

The organization of IWS is carried out in accordance with the requirements of the main normative documents of the university, including the working curriculum (syllabus), the independent study of science modules.

IWS can be implemented in the following forms:

types of independent work performed directly by the student on a mobile device;

Independent student work under the guidance of a traditional teacher;

Independent student work under the guidance of an electronic teacher.

Types of independent work that can be done directly by the student via a mobile device include:

Preparation for the lesson - study of lecture notes, vodkas, videos, descriptions of practical exercises and laboratory work;

information retrieval - study of Internet materials through a digest provided based on one's interests;

FAQ (frequently asked questions) - search for answers to problems of interest through educational programs;

Forum - exchange of views on science topics on telegram channels or distance learning platforms;

Test-solving - consolidation of science module materials through exercises in instructional test programs;

Preparation for the test - preparation for the expected interim and final examinations in the subject.

Independent student work under the guidance of a traditional teacher (ORIWS):

problem solving - solving problems on the topic of practical training and presenting it in writing;

abstract - a written statement of the problem, in which literary sources are commented or scientific work, books are analyzed;

Colloquium - a conversation to check the mastery of the theoretical part of the training module;

essay - a written statement of personal opinion on a topical issue in a critical, journalistic and other genres;

presentation - a slide and video presentation on a given topic;

case-study - the search for solutions to problems in the production of tasks in the prescribed form;

Work games - gaining professional skills by imitating professional processes, staging, role-playing;

glossary - a brief explanation of terms on a given topic;

group project - joint project work of 3-5 students;

Calculations - graphs and calculations, usually based on the established guidelines for technical disciplines (engineering graphics, electrical engineering, information technology, etc.);

course work - written and arithmetic work on the basis of established methodological guidelines on the problems of science or a set of disciplines (economics of enterprises, basics of management, ecology and environmental protection, civil protection, etc.);

course project - calculations based on the established methodological guidelines, which are accompanied by graphic drawings on the problems of science or a set of disciplines (technical mechanics, technological processes and devices, disciplines related to the project);

Diploma project - a project work on the design of a manufacturing enterprise or its subdivision on a given topic of the specialty, written on the basis of established guidelines, described by graphic drawings and calculations;

Internship report - a report based on the established methodological guidelines for the internship (familiarization, production, undergraduate internships);

Participation in science clubs - the student prepares visual aids in science clubs, such as models, slides, samples;

participation in competitions - the student's participation in various competitions under the scientific guidance of the teacher ("Young Inventor", student startup projects, etc.);

Participation in science Olympiads - participation in interdisciplinary Olympiads in science (chemistry, general chemical technology, physics, information technology, etc.);

Presentations at scientific conferences - presentations at scientific and technical conferences on the topic of scientific research at universities, nationally and internationally;

Publication of scientific theses and articles - publication of theses in scientific collections of scientific conferences and articles on scientific research in scientific journals;

Participate in the preparation of teaching materials - participate in the preparation of textbooks, manuals, manuals, guidelines and other teaching materials.

Electronic media of IWS:

Link - open an Internet link and comment on the material in the form of video or text;

Chart - limited analysis of tables, diagrams and charts;

Q / A - written answers to the questions asked by the teacher on the distance learning platform in the prescribed amount;

Review - write an annotation to the source provided;

SWOT - the student SWOT-analyzes a concept to a limited extent;

Interview - a conversation on the study of the problem and upload it to the distance learning platform;

Google Apps - collaboration on the Google Classroom platform to perform tasks in the form of slides, tables, texts;

• Digest - a set of Internet links on a given topic, compiling a card index and a brief description of them;

• Report - students submit their laboratory reports to a distance learning platform.

ORIWS are presented in the syllabus of the science by modules of science, indicating their description, topics, assignments, forms of conduct, the amount of hours. The content of IWS is determined by the nature of the subject, the technical capabilities of the university and the educational and methodological support of the library. IWS should be based on innovative technologies. The in-class form of ORIWS includes textbooks and primary resources for students, group assignments, and individual analytical activities. The ORIWS is held on a schedule for each subject throughout the academic year, indicating the date, time, audience, and tutors.

Classes in the framework of ORIWS can be in the form of consultations and interactive forms, the ratio of which is determined by the complexity of the subject, the amount of classroom time allocated for their study, the level of preparation of students.

The student, who receives individual counseling, signs a journal to record the work of teachers. The quality of IWS is controlled by the department, which approves the scope, content and type of reporting of IWS, determines the scope, sequence and deadlines for submission, reviews reports of students and teachers on the results of IWS.

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