

USE OF ADDIE MODEL COMPONENTS IN THE DEVELOPMENT OF PUBLIC OPEN ONLINE COURSE DIGITAL LEARNING RESOURCES.

Bagbekova Laylo Kadirbergenovna

TSPU after named Nizami.

bagbekova_laylo@mail.ru

Great attention is paid to reforming the system of continuing education, the introduction of information technology and increasing the efficiency of education in our country, which is on the path of independent development.

The widespread introduction of information and communication technologies in the education system plays an important role in further enriching the modern knowledge of students and teachers.

Recently, teaching in public open online courses has become popular. OOOK is a wide range of distance courses offered by universities on special platforms. OOOK technology is based on the use of special platforms where video lectures are hosted. OOOK allows students to choose the pace of learning the material that is most convenient for them and return to the material they have learned. Students are supervised through tests or questions and assignments. Feedback is provided through forums.

The following steps can be identified in the development of an open online course in OOOK format:

1. Development of OOOK program. The program is developed by a professor (facilitator and educator);

2. Development of a promotional video for the course;

3. Development of pedagogical scenario of the course:

The pedagogical scenario of the course is an expanded description of the author's content and structure of teaching materials, pedagogical and information technologies used to organize the educational process, methodological principles and techniques based on teaching materials and its support system.

4. Preparation of text, graphics and other teaching materials. Creation of OOOKs and their examination.

5. Record a promotional video.

6. Record video lectures.

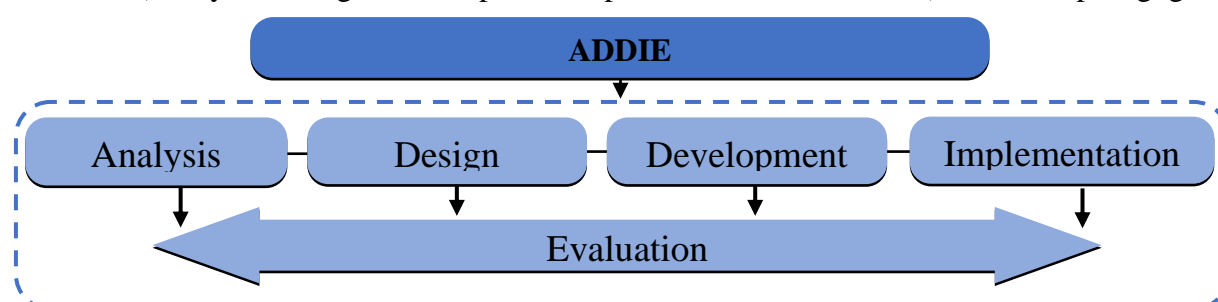
7. View, adjust and edit (edit) videos.

8. Placement of all created OOOK materials on the platform mooc.tdpu.uz.

Course materials taught in public open online courses must be properly selected by the professor based on a pedagogical design approach.

Pedagogical design is an area focused on specific pedagogical actions to achieve the intended pedagogical results; the process of deciding on the best pedagogical methods to implement the expected changes in their knowledge and skills, taking into account the clear content of the course and the identified students.

ADDIE (Analysis, Design, Development Implementation, Evaluation) model of pedagogical



design was used in the formation of teaching materials developed for OOOK:

Analysis - in the development of any training course, the most important elements of the course are identified, the tasks of the teacher are specified, taking into account the needs of the student. The purpose of the course is defined and shaped, while the course audience and the formats of working with them are systematically evaluated. In the final step, a list of expected results is generated. The training course helps to clearly formulate tasks into several stages in order to increase efficiency. Systematically developed goals and objectives are enriched with online learning tools, interactive elements that allow for the perfect creation of educational information materials. At the same time, it is necessary to clearly define the evaluation criteria of the training course. By determining the expected results of the online course, the content of the tasks created in the course, control test questions, the process of how to present the final control tasks to the student are analyzed. Once the course objectives and expected outcomes have been identified, the task of formulating training information materials for the online course will be considered.

Design is the development of the material, work plan and structure of all courses created for the education system, taking into account all the conclusions of the analysis phase at this stage of the model, the design of the main interface of the course prepared for the course, the scope of test questions, assessment criteria components are designed:

Choice of training tool. First of all, the work process is carried out by analyzing the target audience of educational materials, forms of teaching, methods of providing educational information to the student in terms of content. As a second task, the acquisition of appropriate information materials for the training course will determine the knowledge and skills to ensure the completion of the tasks in it.

Creating a training course scenario. The main aspect of this parameter is the assessment of the extent to which each element of the educational material is developed for the educational course by designing and approving the form in which the educational information materials are presented to the student.

Preparation of samples of educational information material. Samples of audio and video information are prepared using materials of different formats suitable for the training course, ie images, animation effects and interactive elements. These examples will help identify gaps in the course and make changes and additions to the course scenario.

The revision of lecture texts and other teaching information materials prepared for the course in terms of their relevance to the objectives of the assessment and improvement of course materials is a parameter that can be achieved through the most effective modeling at this stage. The problems and achievements in the evaluation of the created curriculum will be identified by a team of experienced teachers.

Strengthening and developing training material. Eliminate technical problems and shortcomings in the creation of online courses and their implementation in the educational process, as well as the formation of new online courses for educational content, in which each module provides the student with a lecture on a specific field, educational information sets, additional information in various forms. and the organization of special training courses on a specific e-learning platform through the preparation of samples of educational literature, as well as the introduction of them in the practical process of education is considered an important task.

Development - development of course materials. Forms of presentation of training materials and assignments (text, video, test, etc.) are identified and developed.

At this stage, in the process of designing any course, all types of textbooks are presented to the student. In addition, assignments of different content will be selected for the course

participants, and the content interface connection between the independent topic and test questions will be strengthened. This is a necessary task in identifying the tools that serve to summarize the results of the test, question assignment, and practical laboratory work in order to achieve the effectiveness of the online course. It is at the developmental stage that the creative creator of the course requires creative flexibility in creating the course before presenting it to the student.

Implementation - course materials are uploaded to the learning platform, which allows students to access educational content. At the same time, by managing certain educational processes remotely during the introduction of the course, the student will be able to study independently in the course at a certain time at a distance, loaded with information materials, lectures, additional literature related to the course.

Evaluation - After summarizing the first data on the introduction of a particular course, the level of effectiveness of the presented course is assessed. It is necessary to link the results achieved in educational practice in the implementation of the tasks facing the first stage of analysis in pedagogical design. Because with the help of educational content analysis, the information materials uploaded to the course by the course creator, the text of the report are evaluated on the basis of appropriate evaluation criteria.

Based on our personal experience, we believe that teaching and learning in OOOKs is a very interesting, positive experience, a good opportunity to learn in a convenient format and mode. Computer Graphics Public Open Online Course, enrolling learners and supporting them in the course movement mechanism; formation of course materials (lectures, practical and laboratory assignments); formulation of control tests and questions; continuous determination of the student's mastery indicators using current tests; such as obtaining various statistical analyzes.

Introduction of public open online courses in the educational process:

- The student acquires professional knowledge;
- in-depth study of the field of science by modeling the studied events and processes;
- Expansion of the field of independent activity of students due to the diversity of educational activities;
- to individualize and differentiate the learning process based on the introduction of interactive communication capabilities;
- mastering the strategy of the student to master the learning materials through the use of artificial intelligence;
- as a member of the information society, the formation of an information culture in it;
- The presentation of the studied processes and events through computer technology plays an important role in increasing the interest and activity of students in the basics of science.

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