

## TEACHING OF SCIENCES IN HIGHER EDUCATION ON THE BASIS OF INNOVATIVE TECHNOLOGIES

Teshaboeva Feruza Rakhimovna

Kokan State Pedagogical Institute named after Mukimi

Associate Professor of the Department of Inclusive Education, (PhD) Kokan, Uzbekistan

### ABSTRACT

This article shows the information about HobkiHe improving the efficiency of training module "Special teaching method for a native language." Namely, the use of SMART technology in the formation of the goal of classes and creating electronic resources for modules.

**Keywords:** deaf and weak children, interactive methods, lessons and exercises

Today, Uzbekistan is moving to a new stage and image in every field. Higher education is a branch of continuing education that has an incomparable impact on the development of the state, and a number of reforms are being implemented in this area. Because the more the growing personnel are ready for the labor market, the more the welfare of the people and the active participation of families in socio-economic relations will be ensured.

Decree of the President of the Republic of Uzbekistan No. PF-4947 of February 7, 2017 "On the Strategy of Actions for Further Development of the Republic of Uzbekistan", No. PQ-2909 of April 20, 2017 "On Measures for Further Development of the Higher Education System" and Resolutions of June 5, 2018 No. PQ-3775 "On additional measures to improve the quality of education in higher education institutions and ensure their active participation in comprehensive reforms implemented in the country" and 2019

In the Decree No. PF-5847 of October 8 "On approval of the concept of development of the higher education system of the Republic of Uzbekistan until 2030", the issue of raising higher education to a new level in terms of content, organization and pedagogy, and international cooperation is defined as a special task. In particular, the task of applying innovative, especially digital technologies to the teaching process of science modules in higher education has been chosen as a topical direction. The urgency of this task is related to the optimization of the continuous education system in our country with international trends and standards, the implementation of effective methods in the pedagogical process in order to ensure the quality and competitiveness of the personnel training process in higher education. [5,104 - b]

In the Strategy of Actions for the further development of the Republic of Uzbekistan, such urgent tasks as "promoting research and innovation activities, creating effective mechanisms for their implementation, establishing specialized scientific and experimental laboratories, high technology centers and technology parks at higher educational institutions and research institutes" specially recognized.

Training of personnel in the field of defectology is carried out in a number of HEIs of our republic. In particular, personnel are being trained at Nizamiy TDPU, Ko'kan, Chirchik, Jizzakh, Nukus state pedagogical institutes. There are 4 independent departments of defectology: Oligophrenopedagogy, Deafpedagogy, Logopedagogy and Typhlopedagogy. From these departments, educational plans for Oligophrenopedagogy, Deafpedagogy, and Speech

Therapy have been developed and personnel are being prepared. Targeted admission has not yet been introduced in the field of pedagogy.

Department of Deaf Pedagogy deals with the training of specialists in the field of education of deaf and hard of hearing children. This direction has its own development history and methodological foundations. TDPU named after Nizomiy is the base institution for preparation of curriculum, educational programs and working programs in the field of sign language pedagogy.

It is known that speech is an important social factor in the development of deaf and hard of hearing children. The earlier attention is given to these children's speech development, the more effectively these children will be prepared to learn at every stage of continuing education. Speech development in them is carried out on the basis of the laws of the native language. That is, whichever language is the child's mother tongue, the child's speech should be developed based on the features of this language. [4,18 p.]

Therefore, the "Special Methodology of Mother Tongue Teaching" module occupies a particularly important place in the training of personnel in this field. Because a specialist has mastered the methodology of teaching a language to a deaf and hard-of-hearing child, it is one of the factors that has a social impact on the quality of the educational process in special educational institutions and the socialization of these children.

The necessity and structure of teaching the subject "Special Methodology of Teaching the Mother Tongue" arises from the specific features of the current era, which is undergoing fundamental and innovative changes. Currently, in connection with the scientific work plan of Ko'kan DPI, pilot-testing of scientific research work is being carried out on the topic "Technologies for increasing the effectiveness of teaching the module "Special Methodology of Mother Tongue Teaching" in higher education".

As a result of the first analytical works within the framework of the research, it was concluded that it is necessary to include innovative technologies in the teaching process of this module, in particular, educational tasks intended for the use of computer technologies in the organization of independent work of students. Therefore, we have developed recommendations on the use of SMART-technologies in the development of methodical sets of topics and goal setting in teaching the subject "Special Methodology of Mother Tongue Teaching". In addition, it was found that there are a number of problems that hinder the teaching of subjects and the organization of independent work of students at the Higher Education Institution through the experimental work.

For example, in the teaching of "Special Methodology of Teaching the Mother Tongue", the subjects studied in the form of small texts and general pictures are studied, and they are not logically connected and not systematized by blocks. Integrative approaches in learning and teaching the mother tongue are important. The use of an integrative approach in the pedagogical process of higher educational institutions is carried out by mutual harmonization of internal and external related areas of a system or a single department. An integrative approach to the training of a defectologist is used to ensure the integrity of the formation of professional knowledge, skills and competencies, as well as the use of professional training-pedagogical techniques, verbal and non-verbal communication. The pedagogue responsible for

teaching the module is required to be based on the "SMART" technology when setting goals for each lesson.

The term "SMART" was first introduced in 1954 by the scientist and pedagogue Peter Ferdinand Drucker, in 1965 by Paul J. Meyer, and in 1981 by George T. Doran in his scientific works. SMART is represented by the initials of the English words "Specific", "Measurable", "Attainable", "Relevant", "Time-bound". Ji-SeongJeong, Mihye Kim and Kwan-HeeYoo.A Content Oriented Smart Education System based on Cloud).

The following tools are necessary for the teaching of the subject "Special method of teaching the mother tongue":

Web tools. There is a great need for online electronic information-educational resources about science. In practice, it was observed that the teachers and students of the field of defectology use only the database of Russian Internet addresses and resources in this field. In the future, work is being done on the formation of a list of national resources in this direction.

Enrichment of web tools provides a wide opportunity to acquire knowledge during practical training and independently. We intend to structure this tool based on the following content:

1. The working curriculum of the educational module "Special Methodology of Teaching the Mother Tongue" - 110000 - allows you to get acquainted with the requirements for the level of competence of students in the specialty based on the state educational standard of the field of pedagogy and 5111900-Defectology (Surdopedagogy). This module contains curriculum, program, BKM and competencies, qualification requirements.

2. "Pedagogical skill" or "Expert pulpit" module. Various forms of mastering the module are provided. They are: web lectures, seminars, "Master classes", practical exercises, trainings, animated videos, electronic albums, media files, audio, video materials, slides of electronic presentations, web documents illuminating visual materials are uploaded.

3. Media corner. Materials that create an opportunity to effectively acquire theoretical and practical knowledge of the educational module. These types of materials include: a lecture text or a collection of theoretical materials, electronic presentations, electronic textbooks, electronic training manuals, electronic teaching-methodical manuals, a collection of exercises and problems.

4. Glossary or glossary - specific to the learning module

5. Additional materials. Encyclopedias, references, dictionaries, normative-methodical and normative-technical documents.

6. Current, mid-term and final control - a set of control questions, practical works or test tasks on the topics specified in the curriculum or a complete educational module.

2. "The pulpit of the future specialist". Students upload media resources tailored to the content of the subject. Especially videos, professional advertisements, booklets prepared during professional practice.

3. Online assessment-interactive system. Students are given assignments here. An opportunity for self-assessment will be created for them. Most importantly, the prepared tests and assignments are required to be relevant to each topic.

In conclusion, it can be said that the pedagogue responsible for teaching the module is based on the "SMART" technology when setting goals for each lesson, which allows to improve the quality of professional training of future specialists and to effectively forecast and monitor the results.

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