



FORMATION OF CARTOGRAPHIC COMPETENCE IN GEOGRAPHY LESSONS

**Kozibaeva Ozodkhon Makhmudovna¹, Muminov Daniyori Gulomovich²,
Ergasheva Nargiza³**

¹Associate Professor, Doctor of Geography, Kokand State Pedagogical Institute, Uzbekistan

²Associate Professor, Candidate of Geography, Kokand State Pedagogical Institute, Uzbekistan

³Student, Kokand State Pedagogical Institute, Uzbekistan

-----ABSTRACT-----

The main content of the formation of cartographic knowledge, methods of formation of cartographic knowledge and information on working on atlases and geographical maps are presented.

KEY WORDS: *Geographic maps, atlases, the role of geographic maps in the formation of students' knowledge.* -----

It is difficult to imagine geography lessons without cards. The importance of flashcards is very high in learning any textbooks and programs. That is why geographical atlases have been developed for each class and each course in our schools and universities. Reading and learning maps is a huge responsibility for geography teachers. The future teachers of geography should be able to thoroughly understand the scientific methodical bases of formation of cartographic competence and be able to perform practical work on them. Relying on this theory within the framework of the technological approach to the organization of teaching cartography helps to implement the target parameters set by the teacher.

It is advisable to choose the composition of "Cartography" subjects based on the following criteria and on the basis of the qualification requirements of higher education:

- tasks of forming a comprehensively developed personality
- holistic reflection in educational content;
- high scientific and practical importance of the content;
- the real education of students of the complexity of the content
- compliance with capabilities;
- appropriateness of the content of the time allocated for learning subjects;
- to the existing technical and material-technical base of the department
- compatibility.

In the process of choosing the content of training in cartographic sciences, a set of knowledge, skills and competencies necessary for graduates to carry out certain types of educational activities

Emphasis is placed on determining the level of cartographic competence.

The basis for systematizing the content of the educational material is systematic approach, to prepare teachers for the subject of "Cartography".

a structural and logical model was created (Fig. 1).

According to the logical model, according to the students' perception and recall skills, the students' learning materials and learning activities at different stages appropriate, taking into account the overload with academic work divided into sections, models, topics, training sessions.

The purpose of cartographic training of future teachers of geography is to acquire deep knowledge of cartography and prepare them for practical application. For this, geography teachers and students need



to know and learn cartographic methods. The role of this method is very necessary for acquiring geography and improving the quality of education.

It is necessary to analyze geographic maps, atlases, aerial photographs, and be able to read them. They will have to conduct practical experiments on atlases, databases, digital electronic cards.

Cartographic competence of future geography teachers

aimed at formation, considered oriented

teaching methods, forms, and that may be required in technology

includes selection and justification of means.

In the method of forming cartographic competence based on educational technologies and geo-information systems, teaching classes based on educational technologies on the basis of various developments, lesson projects, increasing the effectiveness of education in higher educational institutions, as a result of a new approach to the educational process with the teacher's own knowledge, the teacher's independence, various methods used in the lesson, determines the effectiveness of the means.

Interactive methods : brainstorming; hot dog; quest; gloves; web quest; Sase-Studu; problematic; decision tree; 6x6x6; 3x4; cluster; cluster;

venn diagram; BBB; blitz; FSMU; We will be able to increase our cartographic knowledge with the help of new pedagogical technologies such as charkhpalak.

Didactic educational tools: graphic programs; video lectures; video plates; multimedia applications; presentation programs.

Result: Future based on the design of "Cartography" lessons
cartographic competence of geography teachers is formed

Forms of teaching: lecture; practical training.

Cartographic, which is now known as 3D cartography

in the process of creating images, three independent and interrelated monitoring objects can be distinguished: it is necessary to develop qualitative and quantitative indicators of each of the defined characteristics, their influence on each other, and the criteria of 3D cartography. Based on logical considerations, the mutual systematic influence of descriptions, their composition and the proposal of participation criteria, in turn, is the scientific-methodical basis of 3D cartography. Since there is information about the object in the 3D dimensional form, it will be possible to automatically determine its numerical characteristics based on this model. 3D cartography involves two independent processes. The first process includes all the objects of the three-dimensional digital model of the place, including the three-dimensional system of conventional signs, generalization, color and structural decorations.

In conclusion, it can be said that in geography lessons, teachers and students should pay close attention to the creation of maps, their conditional symbols and the purposes for which they were developed in order to build their cartographic knowledge. In the formation of cartographic competence, it is always necessary to form practical work on time.

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