

## Scientific and Theoretical Basis and Importance of Teaching General Sciences in Technical Universities

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**Abstract:** The article focuses on the role and importance of construction sciences in the training of specialists in the field of construction, as well as information about the convenience of textbooks in mastering the subject and training students in this field.

**Key words:** method, competence, profession, personnel, higher education, program, intelligence, economics, computer science, ICT, information, information, technology, competence, method.

**Introduction.** Currently, attention to construction in our country is increasingly increasing. It will not be an exaggeration to say that such increasing attention places great responsibility on personnel graduating from construction specialties. The training of scientific and technical personnel and engineers plays an important role for the country, because scientific and technological development is directly related to the most important discoveries and achievements of the last century. World leaders are countries and states that have a high level of intellectual potential and are able to accumulate scientific achievements, thereby increasing the national wealth of society.[1,2]

The transition of our country from an agricultural state to an agrarian-industrial state will increase attention not only to the industrial sector, but also to any sector of engineering production.

**Research materials.** In the concept of development of the higher education system of the Republic of Uzbekistan until 2030, based on the needs of the social sphere and sectors of the economy, improving the quality of education, competitive tasks of personnel training, effective organization of scientific and innovative activities. , development of international cooperation. As for the practical implementation of this concept, Decree of the President of the Republic of Uzbekistan dated July 11, 2019 No. PQ-4391 "On measures to introduce new management principles in the system of higher and secondary specialized education" during the process. It is assumed that the introduction of digital technologies and modern methods will the following activities were carried out:

- organizing a system for training highly qualified engineering and technical personnel for the digital economy;
- ensure strong integration of modern information and communication technologies and educational technologies and, in this regard, create additional conditions for the continuous development of professional skills of teachers;
- individualization of educational processes based on digital technologies, development of distance education services, widespread introduction of webinar, online and other technologies into practice;[3,4]
- use of the capabilities of distance learning programs based on modern information and communication technologies in education.

**Research result.** Competency models of future engineers should include the following most important competencies:

- ✓ the ability to “transfer” technologies from one area to another; computer skills, use of databases and data banks;
- ✓ knowledge in the field of marketing, trade, economics, business, finance, patenting and licensing;
- ✓ legal knowledge, skills in protecting intellectual property, skills in presenting technologies and products, knowledge of foreign languages;
- ✓ Research and team management skills.

The role of building structures in the construction industry is unparalleled. The reason is that imparting this science as a textbook to students of the construction industry directly affects the quality and load of any product that will be produced in that field, as well as information about what part of the building is used. Reinforced concrete is the most popular material in the construction industry, and it would not be wrong to say that the share of this material in the construction of buildings and structures exceeds 70%. Construction expert Professor S.A. spoke about the application and significance of this material. Kholmiraev's textbook “Reinforced concrete structures in questions and answers” serves as a real educational material for teaching students in the field of construction.[5,6,7]

The textbook is designed to be convenient and simple for students studying in a given field, a question related to that field is prepared, and an extensive answer to that question is given. Moreover, it is conveniently structured so that students can review reinforced concrete structures and re-learn the memorized portion. Terms and terms are fully explained in the textbook, making it much easier for the student to find them. The choice of concrete in reinforced concrete structures, factors ensuring structural strength are also shown in the form of a comprehensive solution.

Also, CIS scientists have conducted research to improve the professional competence of specialists in the above areas and the development of a specialist as an individual.

A.M. Novikov considers the above list of basic competencies to include understanding the characteristics of life in a competitive environment and possible unemployment, psychological readiness to change not only the profession, but also the field of activity. Today, professional flexibility and intellectual mobility are increasingly demanded as a necessary condition for the successful social and professional activity of a modern specialist.[8]

B.M. Igosheva's works explore the professional mobility of a teacher, which is defined as a variable personality quality that determines his success in adapting to changing conditions of professional activity, the ability to assimilate innovations in education, and readiness for independent action. - development. Gave feedback on self-improvement, development and self-awareness in teaching activities and professional teams.[9]

L.V. According to Goryunova, the concept of “professional mobility” is a personality quality; human activity, its result - human self-awareness in profession and life; process of change in personality and environment. This definition does not depend on specific areas of training for graduates of higher educational institutions, but is a definition given for general cases.[10]

**Conclusions.** In conclusion, the great importance of using literature and national heritage created by the sciences in teaching specialized subjects was noted. When reading literature, it is necessary to ensure the student's comfort in order to independently study the subject and receive a complete answer to his question from the author or a specialist in this field.

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