



ECONOMIC MATHEMATICAL MODELING OF THE REGIONAL SYSTEM OF PROFESSIONAL EDUCATION IN THE REPUBLIC OF UZBEKISTAN

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ABSTRACT

The centripetal tendency is caused by objective requirement of preservation of uniform educational space that assumes the coordination of the maintenance of training by introduction of the State educational standards, workings out of the list of the cores, the general for all country of the trades prepared in professional educational institutions, definitions of terms of training and the status of educational institutions. Necessity for uniformity of documents characterizing an educational level, the general technique of licensing and accreditation of establishments - all these and variety of other questions not only substantial from here follows, but also the methodical plan demand the centralized decision.

The paper analyzes the problem of developing a model of the regional system of vocational education on the example of the Jizzakh region of the Republic of Uzbekistan. A mathematical model of the regional system of vocational education is given.

KEYWORDS: *model, vocational education, mathematical modeling, regional educational systems, continuous pedagogical education.*

INTRODUCTION

For years of independence the national education system and training became one of state policy pricing questions in republic. The president of the Republic of Uzbekistan Shavkat Mirziyoyev in December, 29th indicate the reform in the school education, on January, 25th 2018 said about measures on the further perfection of system of an average special and systems of vocational training

on the basis of perfection of system of higher education on a condition and July 25th 2018 year stately of innovative development of Republic Uzbekistan.

Materials and Methods. The President of Republic Uzbekistan S. M. Mirziyoyev on February, 7th, 2017 said about movement on stately of the further development of the Republic of Uzbekistan. The decree №4947 from the decision



“about the international competitiveness of the country and innovative theoretical the size as the key factor in definition of progress of human reason- the main objective of strategy of development” Head oliy Marklis said on December, 22nd, 2017 “our great descendants of Muhammad ibn Musa al-Khwarizmi, Ibn Sina” allies unfortunately, is net enough attention to a problem of formation of the presented. The vital value, in connection with 26th anniversary of acceptance of the constitution of Uzbekistan works on December, 7th, 2018 from achievement, words “Standards of preparation of teachers and training methods in sphere of national education the basis of the advanced foreign”

Representations about full identity public and personal interests in reception of formation have not given expected results. In this connection the role of the centralized management methods and education system, including professional, has considerably changed aside their restrictions. Powers of regional educational systems, and also independence of educational institutions simultaneously increase. The problem of working out of model of regional system of vocational training in new economic conditions becomes more and more actual in connection with condition of economy and education systems as a whole [2,]. In formation practice in modern conditions, two basic tendencies are looked through: centripetal and centrifugal. They make an original skeleton of a uniform state policy in the sphere of education, which is major, the state the forming factor. The centrifugal tendency is connected with comprehension of impossibility and inexpediency in Republic Uzbekistan to operate educational sphere with delegation of power in all spheres of public life in regions. As an actual scientific problem scientific search and practical realization is necessary for new, adequate modern conditions of model of regional system of vocational training. It is a question not of creation of the new centralized scheme of management, and about delegation of power on the bottom levels: municipal, local and on level of educational institutions. For working out of scientific and pedagogical bases of an educational policy at all its levels, the estimation of real requirements of economy in formation of regional system of vocational training in modern conditions has basic methodological value. Orientation to dynamics of a labor market can give to vocational training system self-regulated character, ability to adapt to changing industrial and economic relations. The Scientific and pedagogical

approach to formation of regional model of vocational training assumes the analysis of the maintenance of vocational training and its conformity to character of work, an estimation of pedagogical techniques and technologies of vocational training, and also pedagogical shots. In decentralization of management carried out in the Republic of Uzbekistan, all is more sharply felt requirement of development of the well-founded scientific and pedagogical approaches, allowing to define optimum methods of planning, placing or a reshaping of existing professional educational institutions in region taking into account such factors, as presence of potential consumers of educational services, popularity of trades, level of a demand of shots. The lack of scientific and methodical workings out, standard materials on these and other questions brakes reform of system of initial vocational training in regions and in the big degree causes difficulties, which they test in a transition period. Absence of the scientifically- proved model of regional system of vocational training and methods of its interaction with a labor market is at the bottom of that the structure of trades on which preparation in professional educational institutions frequently is conducted is carried out in the proportions which have developed in region without real requirement for shots now. Research spent to Jizzakh area has shown that till now in area preparation of mechanics, repairmen, and toolmakers is made in every fourth college. Simultaneously with it is revealed that from 450 unemployed having vocational training and registered at labor exchange, every tenth has these trades. The educational policy local municipal in the regions is under construction without introduction in practice of managing of new market relations, without thorough preparation of scientific and legal base that was at the bottom of an actual mismatch of inquiries of a professional training from economic and educational spheres of a society. Vocational training establishments, their heads and pedagogical shots remained without reference points and accurate recommendations, have appeared compelled independently, often empirically, a trial and error method to adapt to current inquiries of a formed labor market and ways of calculations of its perspective requirements. At the comprehensible decision of perfection of continuous formation, the basic direction is use of methods of the mathematical modeling including of programs in the several directions. Among them and actual the developed networks of modern professional colleges and the



academic lychees are especially important, their comprehensible placing in regions would promote training of children on practical examples of the modern developed countries. Definition of ways of the comprehensible decision of this points in question by means of mathematical methods shows that it is necessary to consider regional specificity of educational institutions both their indicators and capacities of possible building [3].

Continuous educational institutions, which aspires to zero. Comprehensible indicators of expenses in building, satisfying these requirements, are provided more than expenses. At building of regional educational institutions the big role use on a level with the state and local budget and foreign investments and patronage of private businessmen plays productivity of the accepted program of the country realized in regions, and calculated on many years. It is expedient to organize reduction of expenses by qualitative and timely building of regional continuous educational institutions, consistently and particularly to realize accepted of «the National program on a professional training», the Law of «About formation» of the Republic of Uzbekistan of the program of perfection of continuous educational institutions. The conducted research allows answering the basic questions connected with realization of requirements of the law on formation on delegation of power from state structures to regional and formation of regional model of vocational training as a part of the general educational system of region. It is necessary to define and adapt to the socioeconomic factors influencing formation of regional model of vocational training. A major factor is the labor market, which causes requirements to the list of trades, the maintenance of vocational training and engineering-pedagogical shots working in this sphere. Taking into account the developed scientific and pedagogical bases, we execute designing of regional model of vocational training in modern conditions. Economic, demographic, cultural features of Jizzakh area are thus generalized, systematized and considered, in particular it is offered mathematical model of regional system of vocational training; the technology of realization of regional model of vocational training is offered, the most effective ways of use of new forms, means and training methods are approved. The basic results of the conducted research give the grounds to assert that the vocational training system increasingly is affected demographic and socio-economic factors on the development. In the field of a professional

training of all skill levels especially appreciable, there is a labor market influence. Haw “About education” the programs of per section of continuous educational establishments.

Execution of the Decree of the President of Republic Uzbekistan №PF-5198 on September, 30th, 2017 “About measures on radical perfection of a control system by preschool education”, the further expansion of the stat and not state branches, creation of conditions for a healthy competition between them, partner relations, with introduction of new forms of preschool education in Uzbekistan, by means of which intellectual, physical, directed on education.

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