

ANNOTATION
of the dissertation work on the theme
“Formation of communication potential of future informatics teachers in mastering English subjects” to get the degree Doctor of Philosophy (PhD) on the specialty 6D010300- “Pedagogy and psychology” by Bekbulatova Indira Useinovna

The relevance of the research: In *the state program on developing and using the languages for 2011- 2020 years*, adopted by the decree № 110 of the President of the Republic of Kazakhstan from 29 July 2011, it was stated that “... there is a complex of problems in teaching and learning English and other foreign languages as a tool of international business relations”, and the aim was indicated to rise the percent of English speaking population to (10% towards 2014, to 15%-2017, 20%-2020).

Nowadays in order to reach the number indicated in the program in November 2015 there was adopted “*the road map of developing three languages for 2015-2020*”, huge events have been carrying out in the country to exercise the three language education. The mentioned “Road map” stated to make changes and additions in the academic programs of higher education in all periods on teaching English course since 2016, in 2020-2021 at schools the subjects such as Computing, Physics, Chemistry, and Biology would be taught in English (elect on the agreement of shared educational organizations).

And the current situation in the higher educational establishments was defined in the *State program of developing the education and science in the Republic of Kazakhstan for 2016-2019* adopted by the №205 decree of President N.Nazarbayev from March 1, 2016, “The level of the program of teaching students in three languages is low. There is a need for raising the language competency of students and teachers as well. Teaching the subjects in English has been maintained very poor.” And this shows the actuality of studying the development of three languages professional training of future specialists and their scientific-methodical maintenance.

The above mentioned situation shows the actuality of immediate learning English by the future teachers of computing with the international competitiveness. It is compulsory to establish their communicative competence in the subjects taught in English. These objectives put for training future computing teachers give opportunities to learn English properly, widen the relations between multinational worlds, satisfy their cognitive, social and human needs, enrich their knowledge and creativeness, and get to know all human values and world culture as well. In the higher educational system the scientific research of formation of communication potential of future informatics teachers in mastering English subjects is a public need. Teaching subjects in English, formation of communicative competence is good for the professional and social use of future teachers and is of high professionalism. It is aimed to increase the intellectual and creative culture of future teachers, influence to form their communicative competence at the subjects taught in English, and develop their professionalism.

Problems of teaching English as a tool of communication have been widely considered by foreign scientists (E. Hatch, R. Oxford, A.Hadley, N.Stanton, W.Gudykunst and etc.) The works of mentioned scientists define the need of differing teaching English on the basis of modern practice.

The scientists of the educational sphere (V.I.Andreev, Yu.K.Babansky, N.V.Kuzmina, V.V.Serikov, V.A.Slastenin, A.V.Usova, N.D.Hmel and etc.) considered the psychological-pedagogical basis of professional training of specialists, importance of the profession, its peculiarities and functions. Considering its structure they offer scientific-methodically based directions to develop the students' creativeness and self educating.

The theoretical methodology of informational society and informatization of education was considered by D.Bell, M.Kastels, M.P.Lapchik, V.M.Monahov, E.Y.Bidaybekov, V.V.Grishkun, Zh.A.Karaev and etc.; theory and methods of the development of professional pedagogical training of future computing teachers and teaching computing was considered by S.M.Kenesbaev, N.Isabek, Zh.K.Nurbekova, S.A.Zholdasbekova, A.E. Sagymbaeva and etc.; problems of increasing the students' cognitive activity through using the informational technology was considered by G.K. Nurgalieva, A.K.Mynbayeva and etc.; problems of establishing competence in professional training of future specialists, preparedness of future specialists for informational technologies, establishing informational culture considered by D.M. Zhusipalieva, S.N. Laktionova, K.M.Berkimbayev, B.D.Sydykov, S.E.Chaklikova, S.T.Mukhambetzhanova and etc.

The effectiveness of teaching special courses in training specialists and developing professional preparedness of specialists and exercising the special pedagogical ideas in the education sphere was considered by V.I. Teslenko, Sh. Taubaeva, A.B. Abibullayeva, M.S. Moldabekova and etc.

Fundamental researches in psychology were held by M.Mukanov, T. Tazhibayev, A.Temirbayev, K.Zharykbayev, A.Aldamuratov, Kh.T.Sheryazdanova, S.M.Zhakypov, Zh.Namazbayeva, B.A.Turgynbayeva, M.A.Parlenbetov, ethno-cultural aspects of pedagogical relations were considered by K.A.Orazbayeva, U.M.Abdigapparova, S.N.Zhienbayeva and etc., and also establishing the individual personal qualities of future specialists, aspects of relation psychology, peculiarities and principles.

Types of potentials were considered in the following researches: personal and professional-pedagogical potential (Yu. V.Smetanova, L.I.Ivanko, I.P.Podlasy, N.E.Pfeifer and etc.), intellectual and educational potential (T.F.Krasnozhenova, Zh.T.Kenzhebayeva and etc.) creative potential (K.K.Zhumadirova, E.P.Gogolev, and etc.), upbringing potential (G.A.Yurina, N.E.Kozhanova and etc.), emotional and deontological potential (A.N.Lutoshkin, G.M.Kertayeva, and etc)

The researches by N.I. Shevandar, M.K. Baltabaev and etc. consider the problems of communicative potential close to our research topic, education in multi- language in different aspects have been introduced in scientifically based statements by the scientists K.N. Bulatbayeva, Z.K. Akhmetzhanova and etc.

The analyze of above mentioned researches and scientific-pedagogical literature and current situation in practice defined that researches on the formation of communicative potentials of future teachers' of computing at the subjects taught in English weren't enough considered, just separate aspects were considered. It is sated in the following opposites between:

- According to social demand the increasing necessity of future English speaking teachers of computing and the current situation of teaching subjects in English for future teachers in the higher educational establishments;
- the opportunities of formation of communication potential of future informatics teachers in mastering English subjects and not enough use in professional training
- the necessity of forming of communication potential of future informatics teachers in mastering English subjects and insufficient research of theoretical and methodical basis

Seeking for the right solution of mentioned **opposites** was the reason of defining and choosing our research problem: “**Formation of communication potential of future informatics teachers in mastering English subjects**”

The aim of the research: theoretical basis and methodology of formation of communication potential of future informatics teachers in mastering English subjects.

The object of research: professional training of future teachers in the higher educational establishments.

The subject of the research: the process of formation of communication potential of future informatics teachers in mastering English subjects.

The prognosis of the research: *if* the theoretical basis and methodology of formation of communication potential of future informatics teachers in mastering English subjects is defined, the model is prepared, through the pedagogical conditions the methodology of exercising in the academic process and *then* the quality in communicative activities of future teachers of computing will rise and influence to forming the level of communicative creativeness, increase the individual and creative ability.

The purposes of the research:

- define the meaning and structure of the notion “communicative potential” in the sciences of philosophy, psychology and pedagogy ;
- define the psychological aspects of formation of communication potential of future informatics teachers in mastering English subjects;
- form the model of formation of communication potential of future informatics teachers in mastering English subjects in the higher educational establishments and determine the pedagogical conditions;
- develop the method formation of communication potential of future informatics teachers in mastering English subjects and check in the practical experiment;

The leading idea of a research use of English in the course of professional communication of future teachers is connected with ability perfect communication

during vocational training in higher education institution, system possession communicative ability and skills.

The theoretical and methodical basis of the research is the philosophical psychological-pedagogical, scientific-technical basis of the educational system; methodical basis of the teaching process, problems of modern education; professional education, pedagogic-psychological and philosophical statements and rules influencing of developing the education content, works of foreign and domestic scientists on developing the individuals.

Methods of the research: the research work was carried out by (analyze of philosophical, psychological and scientific-methodical literature, concluding, comparing, synthesis, grouping); empiric (survey, conversation, monitoring, test, practical- experimental work: defining and establishing experiment), statistic (trueness of research results through mathematic-statistical treatment)

The methodical and theoretical basis of the research is the philosophical psychological-pedagogical, scientific-technical basis of the educational system; methodical basis of the teaching process, problems of modern education; professional education, pedagogic-psychological and philosophical statements and rules influencing of developing the education content, works of foreign and domestic scientists on developing the individuals.

The scientific novelty and theoretical significance:

- the meaning and the structure of the notion “communicative potential” in philosophy, psychology and pedagogy have been defined;

- the model of formation of communication potential of future informatics teachers in mastering English subjects have been made and the pedagogical conditions have determined to exercise them;

- the methodology of formation of communication potential of future informatics teachers in mastering English subjects have been performed.

The practical significance of the research: The academic-methodical complexes of formation of communication potential of future informatics teachers in mastering English subjects were introduced into the educational process:

- the academic-methodical manual “Applied programs in education”;

- the electronic textbook “Information technologies for professional purposes” (Certificate of authorship №1854. 25.08.2016);

- “The communicative methods of teaching English” textbook.

The principles introduced to defense:

1 The meaning of “Communicative potential” and the content of activities of future teachers of computing determined around it will be considered as the education which completes the State educational standard, educational programs and forming it in future teachers of computing will be exercised on the compatible basis of the communicative education, skills, individual personal features.

2 The model of formation of communication potential of future informatics teachers in mastering English subjects comprises the complex of the aim, purposes, components and indicators complex of levels;

3 The pedagogical conditions exercising the model of establishing the communicative potential of the future teachers of computing form: pedagogical-

psychological conditions (professional qualities of future teachers, objectives and motives of the students), the content of teaching (the English language, interpersonal communication psychology, teaching professional oriented English, pleasant microclimate in the academic groups); organizing conditions (material technical equipping of the educational process, harmony of class and outside class activities of the students); didactical conditions (keeping didactical principles, choosing the teaching forms and methods). These pedagogical conditions effectively help of formation of communication potential of future informaticsteachers in mastering English subjects;

4 The *content of* formation of communication potential of future informatics teachers in mastering English subjectsand the academic methodical tools with the adopting functions influence to complete the communicative knowledge and professionally important communicative features of future teachers of computing.

Research approbation:The main results of the thesis are published in scientific publications: International Scientific and Practical Conference ‘Theoretical and applied questions of science and education’ (Tambov, 2014); VII International Scientific and Practical Conference ‘Theoretical and applied aspects of modern science’ (Belgorod, 2015) / International Scientific and Practical Conference ‘Professional preparation of teachers with vocational training: searches, tendencies and expected results’ (Turkestan, 2015); VIII International Scientific and Practical Conference ‘Innovations in technologies and education’ (Belova, 2015) / XI International Scientific and Practical Conference for students, graduate students, and young scientists ‘Psychology and pedagogics in the modern world: calls and decisions’ (Moscow, 2016);

Publications:On the basis of the thesis 20 papers have been published 7 papers were published in publications recommended by the Committee, 1 was published in the edition that is part of the database of Scopus, 5 - in the works of the international conference, including 4 foreign, 1 in the humanities and social sciences in the European Journal, 2 in the scientific journal of the Russian Federation, 1-republican conference 1-academic-methodical manual , 1 electronic textbook, 1- textbook.

Research structure and content:Dissertation consists of introduction, two main parts, conclusion,a list of used sources and applications.Work is stated on 172 pages of the typewritten text and illustrated by 16 drawings and 16 tables.