ISSN 2181-9408



Scientific and technical journal



Sustainable Agriculture

Nº4(20).2023







Chief Editor

Salohiddinov Abdulkhakim
Vice-rector for international cooperation
Professor at "Tashkent Institute of Irrigation and Agricultural Mechanization Engineers"
National Research University, Doctor of technical sciences

Scientific Editor

Yunusov Iskandar

PhD, "Tashkent Institute of Irrigation and Agricultural Mechanization Engineers" National Research University

Editor

Hodjaev Saidakram

Associate professor at "Tashkent Institute of Irrigation and Agricultural Mechanization Engineers" National Research University, Doctor of technical sciences

Candidate of technical sciences

EDITORIAL TEAM:

SH.Khamraev, PhD, minister, Ministry of the Water Resources of the Republic of Uzbekistan; H.Ishanov, PhD, chief specialist, Cabinet Ministers of the Republic of Uzbekistan; Dr.Prof.B.Mirzayev, Rector of "TIIAME" NRU; Dr.Prof.T.Sultanov, Vice-rector for research and innovations, "TIIAME" NRU; Dr.Prof.M.Khamidov, "TIIAME" NRU; Dr.Prof. A.Pulatov, PhD, associate professor, "TIIAME" NRU; B.Pulatov, PhD, "TIIAME" NRU; G.Bekmirzaev, PhD, "TIIAME"NRU; M.Amonov, PhD, associate professor, "TIIAME" NRU; Sh.Khasanov, PhD, associate professor, "TIIAME" NRU; M.Tursunov, PhD, "TIIAME" NRU; B.Sultanov, PhD, "TIIAME" NRU; Dr.Prof.N.Khushmatov, Chief Scientific Secretary of the Agricultural and Food Supply Production Center; Sh.Murodov, PhD, "TIIAME" NRU; Dr.Prof. O.Tursunov, "TIIAME" NRU; M.Juliev, PhD, "TIIAME" NRU; Dr.Prof. A.Karimov, "TIIAME" NRU.

EDITORIAL COUNCIL:

Dr.Prof.N.Vatin, Peter the Great St. Petersburg Polytechnic University, (Russia); Dr.Prof.Y.Ivanov, Russian State Agrarian University - Moscow Timiryazev Agricultural Academy, executive director of Engineering and Land Reclamation named after A.N. Kostyakov, (Russia); **Dr.Prof.D.Kozlov,** Moscow State University of Civil Engineering – Head of the Department Hydraulics and Hydraulic Engineering Construction of the Institute of Hydraulic Engineering and Hydropower Engineering, (Russia); **D.Ziganshina**, PhD, Scientific Information Center of Interstate Commission for Water Coordination in Central Asia; J.Lubos, associate professor at "Department of Water Recourses and Environmental Engineering" of Slovak University of Agriculture in Nitra, (Slovak); Acad.Dr.Prof.P.Kovalenko, National Academy of Agricultural Sciences of Ukraine, Advisor to the Director of the Research Institute of Melioration and Water Resources, (Ukraine); Prof.N.Xanov, Head of the Department of Hydraulic Structures RSAU - MAA named after K.A.Timiryazev, (Russia); Krishna Chandra Prasad Sah, PhD, M.E., B.E. (Civil Engineering), M.A. (Sociology) Irrigation and Water Resources Specialist. Director: Chandra Engineering Consultants, Mills Area, (Janakpur, Nepal); Dr. Prof. A. Ainabekov, Department Mechanics and mechanical engineering, South Kazakhstan State University named after M.Auezov, (Kazakhstan); Acad.Dr.Prof.T.Espolov, National academy of sciences of Kazakhstan, Vice-President of NAS RK, (Kazakhstan); I.Abdullaev, PhD, the Regional Environmental Center for Central Asia, Executive Director; Sh.Rakhmatullaev, PhD, Water Management Specialist at World Bank Group; A.Hamidov, PhD, Leibniz Centre for Agricultural Landscape Research | ZALF, (Germany); A. Hamidov, PhD, Leibniz Centre for Agricultural Landscape Research | ZALF, (Germany). A.Gafurov, PhD, Research scientist at the department of hydrology, GFZ Potsdam (Germany). Dr,Prof. Martin Petrick, Justus-Liebig-Universität Gießen JLU Institute of Agricultural Policy and Market Research; Eldiiar Duulatov, PhD, Research Fellow, Institute of Geology, National Academy of Sciences, Kyrgyzstan; Gisela Domej, University of Milan-Bikokka Professor of Earth and Environmental Sciences, Italy; Moldamuratov Jangazy Nurjanovich, PhD, Taraz Regional University named after M.Kh. Dulati, Head of the Department of "Materials Production and Construction", Associate Professor, Kazakhstan; Muminov Abulkosim Omankulovich, Candidate of Geographical Sciences, Senior Lecturer, Department of Meteorology and Climatology, Faculty of Physics, National University of Tajikistan. Tajikistan; Mirzoxonova Sitora Oltiboevna, Candidate of Technical Sciences, Senior Lecturer, Department of Meteorology and Climatology, Faculty of Physics. National University of Tajikistan, Tajikistan; Ismail Mondial, Professor of Foreign Doctoral Faculty, University of Calcutta, India; Isanova Gulnura Tolegenovna, PhD, Associate Professor of Soil Ecology, Research Institute of Soil Science and Agrochemistry named after UUUspanov, Leading Researcher, Kazakhstan; Komissarov Mixail, PhD, Ufa Institute of Biology, Senior Research Fellow, Soil Science Laboratory, Russia; Ayad M. Fadxil Al-Quraishi, PhD, Tishk International University, Faculty of Engineering, Professor of Civil Engineering, Iraq; Undrakh-Od Baatar, Head of the Central Asian Soil Science Society, Professor, Mongolia; N.Djanibekov, Dr, External Environment for Agriculture and Policy Analysis (Agricultural Policy), Leibniz Institute of Agricultural Development in Transition Economies (IAMO) Theodor-Lieser-Str. 2 06120 Halle (Saale) Germany; A.Karimov, Dr, Head of the ICBA Regional representative office for Central Asia and South Caucasus.;

Designer: Dilmurod Akbarov.

Note: Only the authors of the article are responsible for the content and materials of the article. The editorial board does not respond to the content of the article!

Founder: Tashkent Institute of Irrigation and Agricultural Mechanization Engineers **Our address:** 39, Kari-Niyaziy str., Tashkent 100000 Uzbekistan , www. sa.tiiame.uz

The journal "Sustainable Agriculture" is registered in the Press Agency of Uzbekistan on the 12th of February in 2018 (license № 0957).

In 2019, the journal is included in the list of recommended scientific publications by the Higher Attestation Commission of the Republic of Uzbekistan.

POWER ENGINEERING, ELECTRICAL ENGINEERING, AUTOMATICS. COMPUTING TECHNOLOGY					
N.Eshpulatov, A.Nigmatov Analysis of devices for protecting agricultural objects from insects5					
P.Kalandarov, B.Iskandarov Analysis of mathematical modeling in biotechnological objects					
P.Kalandarov, A.Mutalov The state of automation in grain storage: an in-depth analysis11					
HIGHER EDUCATION. PEDAGOGY.					
G.Eshchanova, U.Nulloev Problems in mastering the socio-cultural and socio-linguistic factors of communicative competence					
ECONOMY. ECONOMIC SCIENCE. OTHER BRANCHES OF THE ECONOMY.					
F.Ahrorov. Enhancing organic food consumption in Samarkand: consumer preferences, price willingness, and certification trust					
Sh.Murodov, A.Mamasodikov Theoretical analysis of foreign experience in organic agriculture development					
S.Gulmatov EStatus of financing for the purchase of agricultural machinery23					
A.Xashimov Importance of fish farming in artificial reservoirs					
I. Achilov Current state of the development of the poultry industry in our country29					
I.Yunusov, A.Inobatov The importance of resource efficiency in assessing the possibilities of increasing walnut production using innovative technologies					
F.Khusnitdin The unique place of values in spiritual progress					

T	١/.			
1	Y_{11}	n_1	151	αv

Features of the development of intensive fish farming: foreign experience......38

PROBLEMS IN MASTERING THE SOCIOCULTURAL AND SOCIOLINGUISTIC FACTORS OF COMMUNICATIVE COMPETENCE

G.Eshchanova, U.Nulloev

"Tashkent Institute of Irrigation and Agricultural Mechanization Engineers" National Research University

Abstract

In the given article the issues of developing the factors of communicative competence regarding learning and teaching English as a Second Language are described. The opportunities of improving the analytical skills of students are explained.

Key words: communication, technical universities, Speaking, Writing, Listening, Reading, language proficiency, personal educational strategies.

Introduction. It is known to everyone that studying a foreign language by students of technical universities, having a good command of English is essential, no matter which sphere the foreign language will be used, regarding government, business, medicine, law, engineering, military affairs, industrial production, marketing, communication and other fields.

Definitely, English as a Second Language in Technical Higher Educational Institutions increases students' interest in improving foreign language skills (Speaking, Writing, Listening and Reading) and creates the basis for good language proficiency. In the process of learning a foreign language, students have the opportunity to improve their analytical skills step by step. The pedagogical, psychological and motivational foundations for the development of students' communicative competence through learning English, developing the personal educational strategies and expanding their vocabulary are considered as significant factors.

What is more essential, the methodology of teaching foreign languages includes a system of knowledge about the rules of teaching English process and methods of influencing the process in order to optimize it. The methodology of teaching English not only reveals the principles of teaching of a foreign language, but also provides its rationale. The methodological component of the content of teaching English is the acquisition of a system of speech skills in a foreign language. The methodological component consists of teaching students rational teaching methods, developing their ability to use a new language in practice for deeper learning and communication, oral and written.

Besides that, it is important to study different pedagogical approaches in learning a foreign language, since pedagogy is important in education, it helps teachers learn best practices in the classroom and apply them correctly, and expands their understanding. Such types of approaches allow teachers to understand how students learn at different levels and tailor their lessons to those needs. As a result, this process improves the quality of teaching and approach to learning.

Undoubtedly, the benefits of studying English as a major include deep thinking, improve memory, increase ability to perform a number of tasks at the same time, sharpen mind, retention of knowledge for a long time, improve decision-making methods, including skills such as improving academic performance in different languages.

It is in the 21st century that another set of opportunities for foreign language learning is that sharpening the minds

of language learners through the acquisition of knowledge is emerging as a powerful way to stimulate the progress of linguistic thinking in the study of English and different foreign languages, field terms, sentence structures, grammatical combinations and ways of expressing thoughts are widely used due to their effectiveness.

The importance of learning English as a second foreign language include five main benefits of learning in the followings: expanding the worldview of language learners, developing thinking skills, improving memory, improving communication skills, new and better acquaintance with cultures, increasing attention and creating wide possibilities. Approaches to foreign language use are explained by the fact that these approaches are descriptive in nature by focusing on specific aspects of the language used in speech, such as sentence structures (grammar) and phonology (sounds), as well as their details, and are rarely found in the fields beyond literature and linguistics.

Undeniably, methodology in the process of teaching English to graduates includes general strategy, studies the methods used in various fields and the theories or principles behind them to create approaches in accordance with the objectives. The methodology of teaching a foreign language is embodied in a system of practices and processes used by teachers of the language to support and enrich the teaching methods of students through textbooks and manuals.

Certainly, in the methodological approach, communicative competence describes the ability to acquire knowledge, including, for example, elementary basic skills such as reading, writing and arithmetic. Without these skills, no foreign language learner will be able to acquire new knowledge, especially in the process of learning foreign languages. The methodology of teaching a foreign language is based on the basic principles of pedagogy, the several didactic principles (consciousness, activity, appearance, systematicity, accessibility, sustainability) are interconnected and regularly complement each other.

There are also several key components of a foreign language curriculum, namely phonemic awareness, phonics, vocabulary development, reading fluency, and interpretive reading skill strategies. This is considered to be the main parameter of reliable approaches in the learning process.

Any type of selective components in the pedagogical and methodological educational process refers to technologies for training English teachers and includes the following stages:

1. Diligence in solving professional problems;

- 2. Problem solving, goal setting and planning;
- 3. Development, implementation and presentation of solutions to professional problems.

The importance of proficiency in a Second Foreign Language around the world nowadays shows that the ability to speak English develops more in the process of communication, this process makes easier for interlocutors to understand each other.

Another important aspect of the process is that it occupies the main place in the activity of speech and emotional perception as an opportunity to study a foreign language, improve memory and thinking skills. This situation helps bilinguals remember different symbols, methods, sequences, names and different directions. In addition, language learners are more creative, perceptive and able to concentrate for longer. In the process of learning a language in pedagogy, four main components of language are studied, which include phonology, syntax, semantics and pragmatics.

In conclusion, it should be mentioned that the importance of pedagogy in an educational setting is that it focuses on creating and developing language learners' teaching methods, skills and attitudes, an approach that helps students understand topics in a usable manner and transfer the acquired knowledge beyond the classroom.

References:

- 1. Shilova O.N. Theoretical Foundations of the Formation of the Information Pedagogical Thesaurus of Students in the System of Higher Pedagogical education. St. Petersburg, 2017, 365 p.
- 2. Elizarov, A.A. Distance learning in the Moscow center Internet Education [Text] / A. Elizarov // Russian School and the Internet: Moscow, 2018, 246 p.
- 3. Sat. Proceedings of the All-Russian scientific and practical conferences. 2018, Pp 116-117.
- 4. Robert, I.V. The concept of an integrated, multi-level and multidisciplinary training of informatization of education] V. Robert, O.A. Kozlov. Moscow: IIO RAO, 2016, 50 p.
- 5. Robert, I.V. Theory and methodology of informatization of education (psychological-pedagogical and technological aspects) / I.V. Robert. Moscow: IIO RAO, 2017, 234 p.
- 6. Lukpanov, G. The introduction of science as the basis for the development of modern schools G. Lukpanov. A.: Rep. publisher., Moscow, 2017. 255 p.
- 8. Kozhomberdieva, N.B. Competence-based approach to development mathematical thinking of students [Text] N.B. Kozhomberdieva, International scientific journal "Symbol of Science". 2017, N. 01,1, Pp.189-192.
- 9. Kurgasov, V.V. Improvement of information training teachers of the system of primary vocational education : dis. ... cand. ped. Sciences: N.Novgorod, 2018, 238 p.
- 10. Kravtsova A.Yu. Improving the system for preparing future teachers in information and communication technology in conditions of modernization of education. Sciences: 13.00.01 A.Yu. Kravtsov, Moscow, 2017, 267 p.
- 11. Galygina, L.V. The study of information and communication technologies in profile courses of informatics. Sciences: L.V. Galygin, Moscow, 2017, 148p.
- 12. Polat, S. Theoretical foundations for creating optimal systems teaching aids / E.S. Polat. Moscow: Nauka, 2016, 121 p.
- 13. Zhangisina, G.D. On the problems in secondary education in the Republic of Kazakhstan
- 14. G.D. Zhangisin // Search: Almaty, 2018, N. 3 (1). Pp.275-277.
- 15. Zhangisina, A. Mimenbaeva // International scientific and practical conference. Almaty, 2018, Pp. 358-359.
- 16. Abylkasymova A.E. Development of the system of general secondary education in the modern world / A.E. Abylkasymova, E.A. Ushurov, R.S. Omarova. A.: NIC "Gylym", 2017,112 p.
- 17. Sadykov, T.S., Development of the system of secondary general education / T.S. Sadykov, A.E. Abylkasymova, R. Zhumabekova. -A.: Gylym, 2017, 220 p.
- 18. Trexler, C. J., & Heinze, K. L. (2018). Prospective elementary teachers understandings of pest-related science and agricultural education benchmarks. Journal of Agricultural Education, Pp.245-250, UK.
- 19. Dillard, M., Andonian, L., Flores, O., Lai, L., MacRae, A., & Shakir, M. (2018). Culturally competent occupational therapy in a diversely populated mental health setting. Am J Occup Ther, 46(8), 2017, p. 721-726.
- 20. Doorenbos, A. Z., Schim, S. M., Benkert, R., & Borse, N.N. (2017). Psychometric evaluation of the cultural competence assessment instrument among healthcare providers. Nurs Res, 54(5), Pp., 324-331.