

6-10-2020

## TO THE QUESTION OF THE COMPARATIVE ANALYSIS OF THE TERMINOLOGICAL CORPUS OF THE SUBLANGUAGES OF ALTERNATIVE FUEL AND ELECTRONICS: ACCORDING TO FREQUENCY DICTIONARIES

A. Galiakberova

*Senior English teacher Ferghana polytechnic institute*

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### Recommended Citation

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**Cover Page Footnote**

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**Erratum**

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ISSN:2181-0427

**ЎЗБЕКИСТОН RESPUBLIKASI  
OLII VA ЎRTA MAHSUS  
TALIM VAZIRLIGI**

**НАМАНГАН ДАВЛАТ УНИВЕРСИТЕТИ  
ИЛМИЙ АХБОРОТНОМАСИ**

**НАУЧНЫЙ ВЕСТНИК НАМАНГАНСКОГО  
ГОСУДАРСТВЕННОГО УНИВЕРСИТЕТА**



**2020 йил 6 сон**

**К ВОПРОСУ СРАВНИТЕЛЬНО-СОПОСТАВИТЕЛЬНОГО АНАЛИЗА  
ТЕРМИНОЛОГИЧЕСКОГО КОРПУСА ПОДЪЯЗЫКОВ АЛЬТЕРНАТИВНОГО  
ТОПЛИВА И ЭЛЕКТРОНИКИ: ПО ДАННЫМ ЧАСТОТНЫХ СЛОВАРЕЙ**

А.Галиакберова Старший преподаватель английского языка(995301772)  
Ферганский политехнический институт

***Аннотация:** В данной статье был проведен сравнительно-сопоставительный анализ некоторых особенностей английских подъязыков электроники и альтернативного топлива, осуществления данного сравнительно-сопоставительного анализа с целью определения корпуса исследуемой лексики английского подъязыка альтернативного топлива был впервые составлен частотный словарь данного подъязыка, так как именно частотные данные предоставляют уникальную возможность наглядно увидеть и изучить терминологическое поле подъязыка в динамике.*

***Ключевые слова:** частота, определение, электроника, топливо, анализ, научный.*

**TO THE QUESTION OF THE COMPARATIVE ANALYSIS OF THE  
TERMINOLOGICAL CORPUS OF THE SUBLANGUAGES OF ALTERNATIVE FUEL  
AND ELECTRONICS: ACCORDING TO FREQUENCY DICTIONARIES**

A.Galiakberova Senior English teacher  
Ferghana polytechnic institute

***Abstract:** In this article, a comparative comparative analysis of some features of the English sublanguages of electronics and alternative fuels was carried out, the implementation of this comparative analysis to determine the body of the studied vocabulary of the English sublanguage of alternative fuels, the frequency dictionary of this sublanguage was compiled for the first time, since it is frequency data that provides a unique opportunity to visually see and study the terminological field of the sublanguage in dynamics.*

***Keywords:** frequency, to determine, electronics, fuel, analysis, scientific.*

**МУҚОБИЛ ЁҚЛИГИ ВА ЭЛКТРОНИКАНИНГ ИЧКИ ТЕРМИНОЛОГИК  
КОРПУСИНИ ҚИЁСИЙ ТАҲЛИЛ ҚИЛИШ МАҚСАДАСИГА: ЧАСТОТА  
ЛУҒАТЛАРИГА КЎРА**

А.Галиакберова  
Фарғона политехника институти  
Катта инглиз тили ўқитувчиси

***Аннотация:** Ушбу мақолада, электроника ва муқобил ёқлигининг инглизча сўзлашувининг баъзи хусусиятларнинг қиёсий таҳлили амалга оширилди, муқобил ёқлигининг инглизча сўзлашувининг ўрганилган лугати таркибини аниқлаш учун ушбу қиёсий таҳлил амалга оширилди, бу сўзлашувнинг частота лугати биринчи марта тузилди, чунки бу ноёб имкониятни таъминлайди.*

***Калит сўзлар:** частота, аниқлаш, электроника, таҳлил, илмий.*

In our century, the century of rapidly developing scientific and technical branches of knowledge, interest in the study of scientific and technical terminologies and individual sublanguages has sharply increased. Every year in science and technology there are more and more new terms. This is due to the constant development of existing scientific disciplines and the emergence of new branches of scientific and technical knowledge. It is scientific and technological progress that necessitates the study of individual terms, terminologies and sublanguages, reflecting the totality of terminological units of a single scientific and technical industry. The study of the terminological bodies of scientific and technical sublanguages is extremely important not only for specialists who are engaged in the development of individual scientific and technical branches of knowledge, the discovery of new phenomena, laws and the formulation of new scientific provisions, as well as the study of the experience of colleagues from foreign countries, but also for everyone interested in research and their results in these scientific fields. Therefore, it is important not only the selection of terms and the compilation of a system of concepts based on these terms, but also the analysis of individual scientific and technical sublanguages. And also a traditionally important area of scientific and technical research and development is electronics.

A comparative analysis of the English sublanguages of electronics and alternative fuels according to the frequency basis makes it possible to clearly, accurately and clearly identify and compare the main lexicostatistical data of the two sublanguages, which allow creating the most complete picture of their The scientific novelty of the article lies in the fact that in this work for the first time a comparative analysis of some features of the English sublanguages of electronics and alternative fuel was carried out. In addition, to carry out this comparative analysis in order to determine the corpus of the studied vocabulary of the English sub-language of alternative fuel, the frequency dictionary of this sub-language was compiled for the first time, since it is frequency data that provides a unique opportunity to visually see and study the terminological field of the sub-language in dynamics. This implies the main purpose of the study - a comparative analysis of the terminology of the English sublanguages of alternative fuels and electronics according to frequency dictionaries. The research material was:

- frequency dictionary of the English sublanguage of electronics P. M. Alekseev;[1]
- a frequency dictionary of the English sublanguage of alternative fuels, compiled from a study of 55 scientific and technical texts on alternative fuels in English with a total length of 256,000 word usage. The results of the study of the main objects of terminological research are a good basis, the basis for any special terminological research, including a comparative analysis of the terminological bodies of the English sub-languages of electronics and alternative fuels. The value of frequency dictionaries in science is very great. The results obtained in compiling frequency dictionaries are used not only in linguistics, but also in other areas of scientific knowledge, for example, in the exact and engineering sciences, in the field of automatic processing of language information. Compiling a frequency dictionary consists of the following main steps: determining the general population of texts, generating a sample population, calculating time, determining a unit of account, analyzing (writing) text, tabulating dictionary data, evaluating dictionary reliability, evaluating dictionary efficiency.

The direct observation unit during the lexicostatistical analysis of the English sub-language of alternative fuel was the completed English scientific and technical text on alternative fuel, and the word form was the accounting unit. According to the principle of random non-repetitive sampling, 55 texts of different size and type were selected. The selection of texts was carried out taking into account the separation of the English sub-language of alternative fuel into subtopics: I - "Alcohol" (X1), II - "Biofuel" (X2), III - "Gas" (X3), IV - "Hydrogen" (X4), V - "Fuel cells" (X5), VI - "General issues" (X6). The texts under consideration included 34 articles, 9 presentations, 7 reports, 3 monographs, 2 reviews. The total length of texts selected in a sample totaled 256 LLC word usage.[2]

However an assessment of the reliability and effectiveness of the frequency dictionary showed that the expected limit of reliable frequencies (with an accuracy level of 0.33, a confidence level of 0.95, a confidence coefficient of 1.96 and a significance level of 0.05) is achieved within the first 761 word forms, which is 0, 79 text. This data is fully consistent with the previously advanced requirements and meets the established levels of dictionary reliability. Despite its widespread use in various fields of science, the main aspect is that the frequency dictionary allows you to find out which lexical units occur in a particular lexical corpus, and how often. For us, the most interesting is the possibility of a comparative analysis of two scientific and technical English sublanguages according to the frequency attribute, since the data of the frequency dictionaries clearly illustrate similar and different characteristics. Comparison and comparison of objects are used both in non-linguistic research and in linguistic research. Comparison is a genetic method, a method of establishing kinship; and matching is a typological method, a method of establishing the type, the similarity of lexical systems.

In addition in linguistics, there are several types of comparison of lexical systems: genetic, typological, areal and genetic-typological. The comparison is supplemented by comparison. It is a comparative analysis that gives the researcher a unique opportunity to compare terminological systems using quantitative parameters that allow you to clearly, accurately and clearly record all structural similarities and differences. The practical goals of any comparative study are: to identify the similarities and differences between the studied lexical systems; study of specific features of both lexical systems; and the establishment of general laws and facts inherent in these systems. Of the 100 most used word forms of the English sub-languages of electronics and alternative fuel, 51 word forms (51%) coincided. Of these, 43 word forms are the words of common vocabulary, and 8 word forms are general technical terms. However, word forms that have not found a match are of particular interest. In both sublanguages, among such words were found words of common vocabulary, and general scientific terms, and special terms. In the English sublanguage of electronics, special terms called P.M. Alekseev electronic are of particular interest to specialists in the field of electronics and distinguish the sublanguage of electronics from other scientific and technical sublanguages.

Furthermore special terms for the sub-language of alternative fuels have been borrowed mainly from engineering and chemistry. In some cases, word forms among 49 word forms of the alternative fuel sublanguage out of the 100 most common, which did not find matches in the 100 most common electronic sublanguage word forms, reflect the most

important problems of this industry: technical, research, economic and environmental. Our research data is valuable material for English teachers, especially in technical universities. The teacher can use them for appropriate and adequate selection of material in order to optimize the educational process, as well as in the preparation of exercises and training texts and adaptation of special literature. It is necessary to say a few words about the students of technical universities themselves, who, thanks to the quick mastery of the basic English terminology in electronics or alternative fuels, can independently study specialized literature and read authentic scientific and technical texts on this subject. Undoubtedly, the results of our analysis play a very important role in the linguistic typology. Our comparative analysis is the source of some data that can be further supplemented and taken as the basis for the classification of English sublanguages of electronics and alternative fuels in order to solve any applied problems by linguistic specialists. In this regard, an analysis of the main objects of terminological research was carried out. The smallest of them is the term, the main type of special tokens, the lexical unit adopted to denote the concepts of a certain field of knowledge. The term is accurate, unambiguous, it has a nominative function, it does not have emotionality, expressiveness and modality. It is also stylistically neutral and systemic. The term appears in the text to accurately and concisely convey specific information when it is necessary to name things or concepts for which there is no name in ordinary speech. [3]

Thus any terminology is formed taking into account the observance of certain norms, rules, principles and models. The basic principles of forming terminologies include: the principle of translation of terms, the principle of relying on own funds, the principle of terminization of non-terms and the principle of association. And new terminologies are formed usually in three main models: as a result of differentiation of knowledge, as a result of the interaction of two sciences at their junction and the interaction of a number of sciences. As with terms, there are some requirements for terminological systems; the main one is the absence of all types of symbolic systemic relationships (polysemy, homonymy, synonymy). According to this requirement, a terminological system should reproduce a system of subject-logical relations between concepts.

To summarize terminological systems are characterized by a number of features (system-wide, logical, logical-linguistic, formal), and they are also divided according to a number of types (large and small; closed and open; single-level, hierarchical, and multi-aspect).

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