



THE IMPORTANCE OF FOREIGN LANGUAGE KNOWLEDGE IN TEACHING AND LEARNING ENGINEERING SCIENCES

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Annotatsiya: Ushbu maqolada muhandislik fanlarini o'qitish va o'rganish jarayonida chet tilini, xususan ingliz tilini bilishning ahamiyati tahlil qilinadi. Chet tilini bilish texnik adabiyotlarga kirish, zamonaviy texnologiyalarni o'zlashtirish, xalqaro tajribalarni qo'llash va kasbiy rivojlanishdagi rolini ochib beradi. Shuningdek, xorijiy til kompetensiyasini oshirish bo'yicha amaliy tavsiyalar ham berilgan.

Abstract: This article analyzes the importance of knowledge of a foreign language, in particular English, in the process of teaching and learning engineering disciplines. The role of knowledge of a foreign language in accessing technical literature, mastering modern technologies, applying international experience, and professional development is revealed. Practical recommendations are also given for improving foreign language competence.

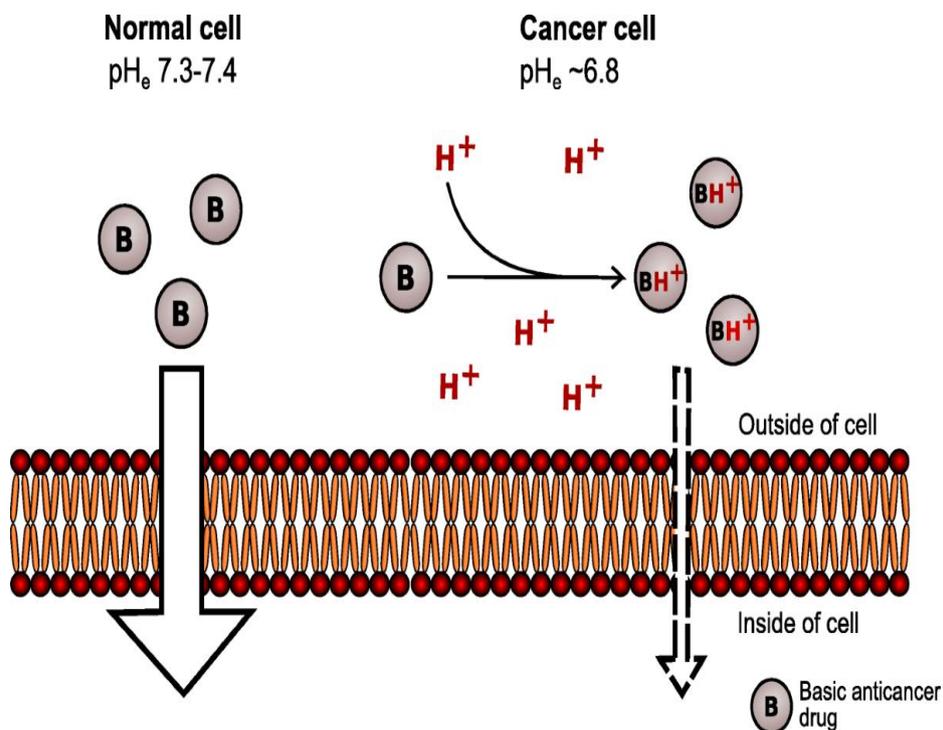
Аннотация: В статье анализируется важность знания иностранного языка, в частности английского, в преподавании и изучении инженерных дисциплин. Раскрывается роль знания иностранного языка в доступе к технической литературе, освоении современных технологий, применении международного опыта, повышении квалификации. Также даны практические рекомендации по повышению уровня владения иностранным языком.

Kalit so'zlar: Muhandislik ta'limi, chet tili, texnik ingliz tili, xalqaro ta'lim, zamonaviy texnologiya, ilmiy adabiyotlar, kasbiy kompetensiya.

Ключевые слова: Инженерное образование, иностранный язык, технический английский язык, международное образование, современные технологии, научная литература, профессиональная компетентность.

Keywords: Engineering education, foreign language, technical English, international education, modern technology, scientific literature, professional competence.

Globalization and digital transformation processes are having a direct impact on the education sector. In particular, the process of acquiring knowledge in technical areas requires active action not only in the national, but also in the international information space. Knowledge of a foreign language in the study of engineering sciences allows a student or specialist to study scientific sources, analyze foreign experiences, and work with advanced technologies.[2] The majority of scientific and technical information on engineering is published in English and Russian. In this developing world, in addition to these languages, scientific databases such as [JST](#), [ScienceDirect](#), [IEEE](#), and [Elsevier](#) provide hundreds of thousands of articles in Chinese, Arabic, and Turkish.



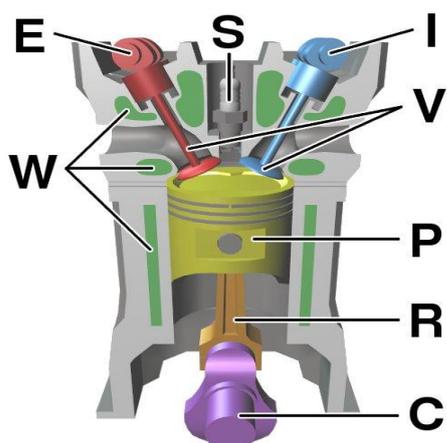
1-rasm Kimyoviy jaryonni chet tilida tariflashi.

Also, technical terms (e.g., voltage, frequency, stress analysis, modeling, 3D simulation) are mostly used in English and are not translated. This requires a deep knowledge of a foreign language. This can be seen in Figure 1. [4]



Many textbooks and manuals that provide knowledge about modern technologies are available in foreign languages, and this knowledge is making a significant contribution to technological progress. Participation in programs such as [Erasmus+](#), [DAAD](#), [Fulbright](#), making presentations at scientific conferences, conducting scientific projects with foreign scientists requires knowledge of a foreign language. An engineer who knows a foreign language will find

it easier to understand equipment imported from abroad in large enterprises and will not face difficulties in managing and training it, and will also have higher work efficiency.[2]



2-rasm. Internal combustion engine: E-exhaust camshaft, I-intake valve, V-valve, S-spark, W-wrist pin, P-porshen, R- rod, C-crankshaft.

An example is the internal combustion engine. Organization of special courses in technical English - bilingual education - teaching technical subjects in English and Uzbek; development of skills in writing scientific articles, preparing technical documents and making presentations, expanding the use of foreign online educational platforms.[3]

Conclusion: In conclusion, knowledge of a foreign language, especially English, plays an important role in

the study of engineering sciences. This not only increases the level of knowledge, but also has a direct impact on professional success, scientific potential and technical progress. Therefore, I believe that special attention should be paid to teaching a foreign language in the engineering education system. An engineer who knows a foreign language is a modern, educated and highly sought-after specialist in the global labor market.

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