

3. Правила вступу до закладів вищої освіти України. 2024. URL: <https://studyinukraine.gov.ua/uk/pravila-vstupu-do-zakladiv-vishhoi-osviti-ukraini/>

4. Свиридюк, О. Мовна підготовка іноземних студентів до вступу у ЗВО Великої Британії. *Збірник наукових праць Уманського державного педагогічного університету*, 2023. №4. С.111–119. <https://doi.org/10.31499/2307-4906.4.2023.295468>

5. English language requirements for UK study. URL: <https://www.port.ac.uk/study/international-students/english-language-requirements>

6. Future Perfect: в Україні стартує національний проєкт з популяризації англійської мови. 2023. URL: <https://www.kmu.gov.ua/news/future-perfect-v-ukraini-startuie-natsionalnyi-proekt-z-populiaryzatsii-anhliiskoi-movy>

7. Prove your English language abilities with a secure English language test (SELT). URL: <https://www.gov.uk/guidance/prove-your-english-language-abilities-with-a-secure-english-language-test-selt#approved-test-providers-and-approved-test>

DOI <https://doi.org/10.36059/978-966-397-491-0-55>

TEACHING MATHEMATICS IN ENGLISH: INTEGRATIVE RELATIONS BETWEEN COMPONENTS OF BILINGUAL SUBJECT COMPETENCE

Snizhko N. V.

*Candidate of Physical and Mathematical Sciences, Associate Professor,
Associate Professor at the Department of Mathematics
National University Zaporizhzhia Polytechnic
Zaporizhzhia, Ukraine*

Ukrainian higher education is being modernized taking into account globalization phenomena in the international educational area, modern trends in multicultural training of specialists [1; 2]. One of the manifestations of such modernization is the implementation of bilingual education in the professional training of specialists at universities. Bilingual education involves teaching professional disciplines in a foreign language, which acts as a means of studying various subject areas. As for tech technical universities, we consider mathematics as such area, since this discipline is basic for students of engineering and technical specialties.

Our purpose is to establish and analyze integrative relationships between the components of bilingual subject competence in mathematics of engineering and technical students who study on a bilingual basis. We use a competency-based approach [5; 6].

Based on the definition of the concept of future engineers' bilingual subject competence in mathematics [3], its essential characteristics and structural composition (fig. 1), the integrative relations between its components are investigated [4]. The reasons for the disconnection of thinking and speaking in a foreign language in the process of bilingual learning are analyzed. The mutual influence of native and foreign languages and their joint influence on learning subject content in the process of bilingual mathematics teaching is considered. The impact of the general professional and intercultural components on the formation and functioning of the future specialist engineer in the information space of his professional activity has been established.

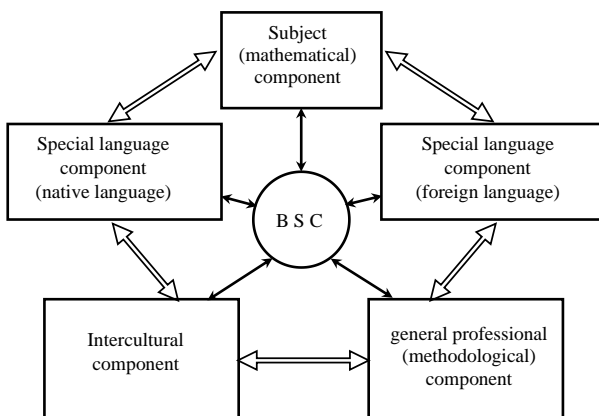


Fig. 1. Structure of bilingual subject competence (BSC) in mathematics

Research materials can be used in the educational process to achieve the strategic goal of bilingual mathematics education of future engineers, namely, the formation of bilingual subject competence. There are integrative connections between its components, the analysis of which requires a systemic approach.

Interaction of two languages in the process of bilingual teaching of mathematics contributes to the preparation of a specialist who is able to solve tasks in all areas of his professional activity, including in a foreign-language multicultural environment.

It should be taken into consideration the requirements set by the job market and the possibilities of the educational process at the modern Ukrainian technical university. Therefore, we see prospects for further research in the study of key

aspects of the socio-professional foreign language communicative competence of a future engineer.

Bibliography:

1. Методичні рекомендації щодо забезпечення якісного вивчення, викладання та використання англійської мови у закладах вищої освіти України : наказ Міністерства освіти і науки України від 25.07.2023 р. № 898. URL: <https://zakon.rada.gov.ua/rada/show/v0898729-23#Text> (дата звернення: 05.03.2024).

2. Про застосування англійської мови в Україні : Закон України від 04.06.2024 р. № 3760-IX. URL: <https://zakon.rada.gov.ua/rada/main/3760-20#Text> (дата звернення: 05.03.2024).

3. Сніжко Н. В. Білінгвальна предметна компетенція з математики студентів інженерно-технічних спеціальностей. *Наукові інновації та передові технології. Серія «Педагогіка»*. 2024. № 8(36). С. 1418 – 1426.

4. Сніжко Н. В. Інтегративні зв'язки між компонентами білінгвальної предметної компетенції з математики майбутніх інженерів. *Вісник Кременчуцького національного університету імені Михайла Остроградського*. 2024. Вип. 4 (147). С. 30 – 35.

5. Федоренко С. А., Бутко Л. В. Ключові компетентності як об'єкт дидактичних розвідок. *Вісник КрНУ імені Михайла Остроградського*. 2019. Вип. 3 (116). С. 19 – 24.

6. Raven J. Competence in Modern Society: Its Identification, Development and Release. Unionville, New York : Royal Fireworks Press, 1997. 251 p.

DOI <https://doi.org/10.36059/978-966-397-491-0-56>

MULTIMEDIA PRESENTATION FUNCTIONS IN FOREIGN LANGUAGE EDUCATION

Talanova L. G.

*Candidate of Pedagogical Sciences,
Professor at the Linguistics and Translation Department
International Humanitarian University
Odesa, Ukraine*

Whereas the use of multimedia has become an integral part of modern educational process, there are still very few studies over construction, effective introduction of multimedia presentation, main functions and didactic conditions of its successful implementation in the area of foreign language education and multicultural training of students.