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SELECTION AND INTEGRATION OF MODERN PEDAGOGICAL METHODS FOR DEVELOPING COMMUNICATIVE COMPETENCE

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Abstract

The article examines the importance of developing communicative competence in future engineers. It is emphasized that to create an effective training model, it is necessary to deeply analyze the communicative requirements of the modern engineering profession. The key components of an engineer's communicative competence are described, including proficiency in technical language and discourse, interpersonal communication skills, professional writing literacy, the ability to make oral presentations, cultural competence, and ethical communication. A comprehensive approach is proposed for developing these multifaceted skills in engineering students for their successful professional activities.

Keywords: Communicative competence, development model, technical language, interpersonal communication, professional writing literacy.

ВЫБОР И ИНТЕГРАЦИЯ СОВРЕМЕННЫХ ПЕДАГОГИЧЕСКИХ МЕТОДОВ ДЛЯ РАЗВИТИЯ КОММУНИКАТИВНОЙ КОМПЕТЕНЦИИ

Аннотация

В статье рассматривается важность развития коммуникативной компетенции у будущих инженеров. Подчеркивается, что для создания эффективной модели обучения необходимо глубоко проанализировать коммуникативные требования современной инженерной профессии. Описываются ключевые компоненты коммуникативной компетенции инженера, включая владение техническим языком и дискурсом, навыки межличностного общения, профессиональную письменную грамотность, умение проводить устные

презентации, культурную компетентность и этичное общение. Предлагается комплексный подход к формированию этих многоаспектных навыков у студентов инженерных специальностей для их успешной профессиональной деятельности.

Ключевые слова: Коммуникативная компетенция, модель развития, технический язык, межличностное общение, профессиональная письменная грамотность.

KOMMUNIKATIV KOMPETENSIYANI RIVOJLANTIRISH UCHUN ZAMONAVIY PEDAGOGIK USULLARNI TANLASH VA INTEGRATSIYALASH

Annotatsiya. Maqolada bo‘lajak muhandislarda kommunikativ kompetensiyani rivojlantirishning ahamiyati ko‘rib chiqiladi. Samarali o‘qitish modelini yaratish uchun zamonaviy muhandislik kasbining kommunikativ talablarini chuqur tahlil qilish zarurligi ta’kidlanadi. Muhandisning kommunikativ kompetensiyasining asosiy tarkibiy qismlari, jumladan, texnik til va nutqni egallash, shaxslararo muloqot ko‘nikmalari, kasbiy yozma savodxonlik, og‘zaki taqdimotlar o‘tkazish qobiliyati, madaniy kompetentlik va axloqiy muloqot tavsiflanadi. Muhandislik yo‘nalishi talabalarida ularning muvaffaqiyatli kasbiy faoliyati uchun ushbu ko‘p qirrali ko‘nikmalarni shakllantirishga kompleks yondashuv taklif etiladi.

Kalit so‘zlar: Kommunikativ kompetensiya, rivojlantirish modeli, texnik til, shaxslararo muloqot, kasbiy yozma savodxonlik.

Considering the increasing role of the English language in technical higher education, the selection and integration of appropriate pedagogical methods for the effective development of communicative competence are of significant importance. In our research, we examine modern pedagogical methods that show promise in developing communicative competence, specifically discussing their advantages, potential challenges, and ways to integrate them into the educational process.

Blended Learning: Blended learning, which combines online and face-to-face instruction, has gained popularity in recent years due to the rise of educational technologies. It offers flexibility, allows for personalized learning, and encourages student engagement. For learning technical English, blended learning enables the integration of various resources, such as online technical texts, video lectures, and interactive language exercises.

However, careful planning is necessary to ensure an effective blend. A Learning Management System (LMS) can be used to organize online resources, manage assignments, and facilitate communication. Face-to-face instruction can focus on interactive tasks that develop communicative competence, such as group discussions, presentations, and role-playing.

Game-Based Learning: Gamified learning (game-based learning) involves integrating game mechanics into the learning process to enhance motivation and engagement. Elements such as points, badges, leaderboards, and levels can be used. Gamified language learning apps, like Duolingo, have demonstrated effectiveness in promoting language acquisition.

For learning technical English, game-based activities can be designed around technical concepts or scenarios. However, designing meaningful and challenging games can be time-consuming. Educators can utilize existing educational games or gaming applications while ensuring they align with learning objectives.

Collaborative Learning: Collaborative learning, where students work together to achieve common goals, fosters communication, critical thinking, and problem-solving skills. In teaching technical English, activities such as group projects, peer reviews, and collaborative writing can be employed.

To facilitate collaborative learning, clear instructions, defined roles, and structured feedback mechanisms must be established. Online collaboration tools like Google Docs or Microsoft Teams can be used for task management and communication.

Flipped Learning: Based on the "flipped classroom" approach, flipped learning focuses on an active learning process rather than merely inverting teaching methods. Pre-class activities include reading technical texts, watching video lectures, or completing language exercises. In-class activities can then be directed towards applying knowledge in communicative tasks.

Flipped learning requires students to take responsibility for their own learning and for teachers to design engaging in-class activities. Providing guidance for pre-class activities and ensuring efficient use of in-class time are crucial for its success.

It can be said that the selection and integration of modern pedagogical methods that contribute to the development of communicative competence involve considering the specific educational needs and contexts of students in technical higher education. By leveraging the strengths of these methods and addressing potential challenges, it is possible to create a dynamic and engaging learning environment that effectively develops communicative competence in English.

Formation of Teaching Methodology. The implementation of a comprehensive communicative competence development model in real technical higher education settings requires a well-defined methodology that addresses the specific needs and challenges of the learning environment. This study presents a step-by-step methodology for applying the proposed model and integrating modern pedagogical methods into real teaching scenarios.

Step 1: Needs Analysis. The first step in forming the methodology is a needs analysis, which involves identifying the specific communicative demands and challenges faced by students in technical higher education. It also includes assessing students' language proficiency levels and their language learning goals. Methods such as surveys, interviews, and language assessments can be used for data collection.

The needs analysis should account for the diversity of the student population, including international students with different linguistic backgrounds. By understanding students' communicative needs and proficiency levels, educators can tailor the curriculum and select appropriate pedagogical methods accordingly.

Step 2: Curriculum Design. Based on the results of the needs analysis, the next step is to design a curriculum that aligns with the proposed communicative competence model. The curriculum should be logically sequenced, starting with foundational language skills and gradually progressing to more complex communicative tasks. Each component of the model – technical language and discourse, interpersonal communication, professional writing, oral presentations, cultural competence, and ethical communication – should be addressed in the curriculum.

Curriculum design should incorporate modern pedagogical methods that foster communicative competence, such as blended learning, game-based learning, collaborative learning, and flipped learning. The integration of these methods should be purposeful and aligned with the learning objectives of each component of the model.

Step 3: Selection of Materials and Resources. The selection of appropriate materials and resources is crucial for the success of the methodology. Educators should choose authentic technical content relevant to students' fields of study. This may include engineering articles, research papers, technical manuals, and presentations. Authentic materials expose students to real-world language use and familiarize them with technical terminology.

In addition to authentic materials, educators can leverage technology and online resources to support language learning. Language learning apps, online language exercises, and interactive multimedia can enhance student engagement and learning experiences.

Step 4: Pedagogical Strategies. The success of the methodology depends on the effective implementation of pedagogical strategies that promote communicative competence. For each component of the model, educators should employ specific strategies tailored to the learning objectives. Here are a few examples:

- For technical language and discourse: incorporating technical vocabulary exercises, using visual aids for technical concepts, engaging students in technical discussions and debates.
- For interpersonal communication: organizing group projects, role-playing scenarios, and discussions that require collaboration and negotiation.
- For professional writing literacy**:** conducting writing workshops, peer review sessions, and providing assignments on writing technical reports and proposals.
- For oral presentations: holding presentation skills workshops, encouraging students to present technical information to their peers, and providing constructive feedback.
- For cultural competence: incorporating intercultural communication activities, creating scenarios where students interact with diverse cultural backgrounds, and fostering reflective discussions on cultural differences.

- For ethical communication: integrating case studies on ethical dilemmas in engineering communication and facilitating discussions on ethical decision-making.

Step 5: Assessment and Feedback. Assessment and feedback are integral to the effectiveness of the methodology. Various assessment methods should be used to evaluate students' progress in developing communicative competence. Formative assessments, such as in-class assignments and online quizzes, can provide ongoing feedback to students. Summative assessments, such as presentations, written assignments, and projects can evaluate students' overall proficiency.

Educators should provide students with constructive feedback, identifying their strengths and areas for improvement. Additionally, students should be engaged in reflective practices, allowing them to self-assess and take ownership of their learning process.

Step 6: Continuous Improvement. The methodology should be a dynamic process that allows for continuous improvement. Educators should regularly review the effectiveness of the curriculum, pedagogical strategies, and assessment methods. Feedback from students and other stakeholders should be carefully considered, and adjustments should be made as needed to enhance the communicative competence development process.

The formation of a methodology for applying the proposed communicative competence model and integrating modern pedagogical methods in technical higher education requires careful planning, adaptation to student needs, and continuous improvement. By following a step-by-step methodology, educators can create an effective and dynamic learning environment that fosters essential communicative skills in future engineers.

Conclusion

The development of communicative competence in English among students in technical universities is a critically important task that meets the demands of the modern globalized world and professional environment. As demonstrated in this article, the selection and integration of modern pedagogical methods, such as blended learning, gamification, collaborative learning, and the "flipped classroom," offer significant potential for increasing the effectiveness of this process.

The successful implementation of these approaches requires not only an understanding of their advantages and potential limitations but also the development of a systematic, step-by-step methodology. This methodology should include a thorough analysis of student needs, thoughtful curriculum design, competent selection of authentic materials and resources, as well as the application of adapted pedagogical strategies and effective assessment and feedback systems. A key aspect is flexibility and readiness for continuous improvement of the educational process based on the data obtained and changing educational contexts.

The integration of modern pedagogical methods into the teaching of technical English allows for the creation of a more dynamic, interactive, and student-oriented learning environment. This, in turn, contributes not only to a deeper assimilation of language material but also to the development of critical thinking, problem-solving skills, and interpersonal interaction. Ultimately, such an approach prepares future engineers for successful professional communication at an international level, increasing their competitiveness and opening up new career horizons. Further research and practical implementation of innovative methods will contribute to the continuous improvement of the quality of language training in the system of technical higher education.

References:

1. Hyland, K. (2012). ESP and writing. The Handbook of English for Specific Purposes, 95-113.
2. Knouse, S. B., & Fontenot, G. (2008). Benefits of the business college internship: A research review. Journal of Employment Counseling, 45(2), 61-66.
3. Ellis, R. (2003). Task-based language learning and teaching. Oxford University Press
4. Richards, J. C., & Rodgers, T. S. (2014). Approaches and Methods in Language Teaching. Cambridge University Press
5. Willis, J., & Willis, D. (2007). Doing Task-Based Teaching. Oxford University Press.