# TEACHING ENGLISH TO TECHNICAL STUDENTS THROUGH THE PRINCIPLES OF INTEGRATION BASED ON INTERDISCIPLINARY RELATIONS

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**Annotation:** This article examines the innovative approach of teaching English to technical students by integrating language instruction with technical subjects through interdisciplinary relations. This method aims to make language learning more relevant and practical for students in technical fields. The article explains how combining English instruction with technical content creates a cohesive learning experience that mirrors real-world applications. This approach utilizes Content-Based Instruction (CBI), Project-Based Learning (PBL), and Task-Based Language Teaching (TBLT) to enhance both language and technical skills.

**Key words:** Content-Based Instruction (CBI), Project-Based Learning (PBL), and Task-Based Language Teaching (TBLT), technical students, technical skills.

# ПРЕПОДАВАНИЕ АНГЛИЙСКОГО ЯЗЫКА СТУДЕНТОВ ТЕХНИЧЕСКИХ ВУЗОВ ЧЕРЕЗ ПРИНЦИПЫ ИНТЕГРАЦИИ НА ОСНОВЕ МЕЖДИСЦИПЛИНАРНЫХ СВЯЗЕЙ

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**Аннотация:** В данной статье рассматривается инновационный подход к преподаванию английского языка студентам технических специальностей путем интеграции преподавания языка с техническими предметами посредством междисциплинарных связей. Этот метод направлен на то, чтобы сделать изучение языка более актуальным и практичным для студентов

технических специальностей. В статье объясняется, как сочетание обучения английскому языку с техническим содержанием создает целостный опыт обучения, отражающий реальные приложения. Этот подход использует обучение на основе контента (CBI), обучение на основе проектов (PBL) и обучение языку на основе задач (TBLT) для улучшения как языковых, так и технических навыков.

**Ключевые слова:** содержательное обучение (CBI), проектное обучение (PBL) и целевое обучение языку (TBLT), студенты технических специальностей, технические навыки.

In today's globalized world, proficiency in English is an essential skill for technical students. However, traditional language teaching methods often fall short in engaging these students, who might not see the immediate relevance of learning English. Integrating English instruction with technical subjects through interdisciplinary relations can make language learning more meaningful and practical. This approach not only improves language proficiency but also enhances students' technical skills and prepares them for the global job market.

**The Concept of Interdisciplinary Integration**

Interdisciplinary integration involves teaching English in conjunction with technical subjects, creating a cohesive learning experience that reflects the interconnected nature of real-world applications. This method leverages the principles of Content-Based Instruction (CBI), Project-Based Learning (PBL), and Task-Based Language Teaching (TBLT) to provide a holistic educational approach.

**Principles of Integration**

1. **Contextual Learning**: English is taught within the context of technical subjects. For example, engineering students might learn English through technical manuals, project documentation, and scientific research articles. This

contextual approach helps students understand the practical applications of language skills in their field of study.

2. **Content-Based Instruction (CBI)**: CBI focuses on teaching English through specific content areas. In this model, language learning is integrated with subject matter learning. For technical students, this might involve using English to teach concepts in computer science, engineering, or biotechnology.

3. **Project-Based Learning (PBL)**: PBL engages students in real-world projects that require the use of English. For instance, students might work on designing a prototype or conducting an experiment, and then present their findings in English. This method fosters active learning and practical application of language skills.

4. **Task-Based Language Teaching (TBLT)**: TBLT emphasizes using language as a tool to complete meaningful tasks. Technical students might engage in tasks such as writing technical reports, creating user manuals, or developing presentations, all of which require precise and clear use of English.

5. **Collaborative Learning**: Group projects and collaborative tasks encourage communication among students from different disciplines. This not only improves language skills but also fosters teamwork and interdisciplinary understanding.

**Implementing Interdisciplinary Integration**

1. **Curriculum Design**: Designing a curriculum that integrates English with technical subjects requires collaboration between language and technical educators. Courses should include modules that focus on technical vocabulary, report writing, and technical presentations in English.

2. **Material Development**: Creating relevant teaching materials is crucial for integrated learning. This includes technical documents, industry reports, and multimedia resources that are specifically tailored to the students' field of study.

3. **Teaching Strategies**: A variety of teaching strategies can enhance integrated learning. These include role-playing technical scenarios, conducting simulations, and solving industry-related problems using English.

4. **Assessment Methods**: Assessments should measure both language proficiency and technical understanding. This can be done through technical presentations, written reports, and collaborative projects that require the use of English.

**Benefits of Interdisciplinary Integration**

1. **Relevance and Engagement**: When students see the direct application of English in their technical fields, they are more motivated to learn. This relevance enhances their engagement and commitment to language learning.

2. **Improved Communication Skills**: Technical students develop better communication skills, which are essential in the global workforce. They learn to articulate technical concepts clearly and effectively in English.

3. **Holistic Education**: An integrated approach provides a more comprehensive education, preparing students for real-world challenges where interdisciplinary knowledge is crucial.

4. **Career Readiness**: Employers value graduates who can communicate effectively in English within their technical fields. Integrated language learning enhances students' employability and career prospects.

**Challenges and Solutions**

1. **Resource Development**: Developing interdisciplinary teaching materials can be resource-intensive. Collaborating with industry professionals and using existing resources can help overcome this challenge.

2. **Teacher Training**: Educators need to be equipped with the skills to teach integrated courses. Professional development programs can provide the necessary training and support.

3. **Student Adaptation**: Some students may initially find the integrated approach challenging. Providing additional support through tutoring and resources can help them adapt.

**Conclusion:** Teaching English to technical students through interdisciplinary integration offers a dynamic and effective approach to language education. By contextualizing English within technical subjects, educators can enhance students' motivation, communication skills, and career readiness. While there are challenges in implementing this approach, thoughtful curriculum design, resource development, and teacher training can ensure its success. Ultimately, interdisciplinary integration prepares technical students for the demands of the global job market, making them more competent and confident professionals.

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