IMPROVING THE METHODOLOGY OF TEACHING TERMINOLOGICAL LEXICON TO STUDENTS IN THE FIELD OF ELECTRICAL ENERGY

Abdullayev Nurillo Abdullo o'g'li

Independent researcher of Namangan State Institute of foreign languages named after is'hoq Khan Ibrat

Annotation: *This article discusses the stages and levels of improving the methodology of teaching terminological lexicon to students specializing in the field of electrical energy. It outlines various strategies to enhance their understanding and usage of technical terms, while also analyzing the effectiveness of various teaching approaches. The study emphasizes the importance of aligning teaching methodologies with students' learning needs and industry requirements.*

Keywords: *Terminological lexicon, electrical energy, teaching methodology, technical terms, student learning, industry requirements.*

In the field of electrical energy, students are required to master specialized terminological lexicons to ensure their competence in academic and professional settings. The importance of properly teaching and enhancing students' knowledge of technical terms has been widely acknowledged. However, effective methodologies for teaching this terminological lexicon remain underdeveloped. This article aims to propose a comprehensive approach to improve the teaching of terminological lexicons to students in the field of electrical energy.

Teaching terminological lexicon to students in the field of electrical energy requires a systematic approach that addresses both theoretical understanding and practical application. Effective methodology should focus on building comprehension, contextual usage, and mastery of technical terms essential for the

electrical energy field. This document outlines the stages, levels, and strategies necessary to enhance this process.

Stages of Improvement:

Preparation Stage (Needs Analysis & Planning):

- Needs Analysis:

- Assess the existing knowledge of students about basic and specialized terminologies related to electrical energy.

- Identify the gaps in understanding and usage of technical terms.

- Setting Objectives:

- Define clear learning outcomes related to the understanding, contextual usage, and retention of terminological lexicon.

- Align learning objectives with industry requirements and academic standards.

- Curriculum Design:

- Create a structured curriculum that includes both foundational and advanced terminology.

- Develop terminology modules based on specific topics like power generation, distribution, renewable energy systems, etc.

- Material Preparation:

- Prepare glossaries, multimedia resources, diagrams, and interactive content tailored to the field of electrical energy.

- Ensure that the materials are user-friendly and suitable for different learning levels.

Development Stage (Material Creation & Instructional Design):

- Material Development:

- Prepare comprehensive glossaries with definitions, synonyms, examples, and usage guidelines.

- Include visual aids such as diagrams, charts, and videos to enhance understanding.

- Instructional Design:

- Apply methodologies like Content-Based Instruction (CBI), Task-Based Learning (TBL), and Project-Based Learning (PBL).

- Create exercises that focus on identifying, categorizing, and applying terminological lexicon in practical scenarios.

- Use of Technology:

- Integrate technology-enhanced learning tools such as virtual labs, simulation software, and mobile apps.

- Develop quizzes, interactive exercises, and case studies to reinforce learning.

Implementation Stage (Teaching & Learning Process):

- Teaching Strategies:

- Combine traditional lectures with hands-on activities and discussions.

- Introduce practical activities such as simulations, troubleshooting exercises, and collaborative projects related to electrical systems.

- Contextual Learning:

- Teach terminologies in real-life contexts, ensuring students can relate theoretical knowledge to practical applications.

- Collaborative Learning:

- Encourage group activities, peer assessments, and role-playing scenarios to enhance understanding.

- Feedback Mechanisms:

- Provide regular feedback through assessments, discussions, and written comments to ensure progress.

Assessment Stage (Evaluation & Feedback):

- Formative Assessment:

- Regularly monitor progress through quizzes, assignments, and oral presentations.

- Provide immediate feedback to guide improvements.

- Summative Assessment:

- Conduct comprehensive exams and practical assessments to measure mastery of terminology.

- Compare results with the established learning objectives.

- Feedback Analysis:

- Collect and analyze student feedback to identify areas needing improvement.

- Adapt the teaching methodology based on the feedback received.

Revision Stage (Reflection & Refinement):

- Continuous Improvement:

- Continuously update teaching materials to keep up with technological advancements and industry standards.

- Apply adaptive learning techniques to cater to individual learning needs.

- Reflection:

- Encourage students to reflect on their learning experiences and provide suggestions for improvement.

- Refinement of Teaching Methods:

- Integrate new teaching strategies and resources to enhance learning outcomes.

Levels of Improvement:

Basic Level (Foundational Knowledge):

- Introduction of fundamental terminologies related to electrical energy systems.

- Focus on definitions, basic concepts, and straightforward usage.

Intermediate Level (Conceptual Understanding & Application):

- Deepening the understanding through contextual usage and practical tasks.

- Developing abilities to explain terminologies through practical examples and applications.

Advanced Level (Specialization & Professional Usage):

- Mastery of specialized terms related to various aspects of electrical energy (e.g., generation, distribution, renewable systems).

- Preparing students for professional communication and technical documentation.

Methodological Improvement Strategies:

- Utilizing Blended Learning (traditional + digital resources).

- Applying Task-Based Language Teaching (TBLT) for practical understanding.

- Using Scaffolded Learning to gradually introduce complex terminologies.

- Implementing STEAM Approaches to integrate interdisciplinary knowledge.

Conclusions

Improving the methodology of teaching terminological lexicons in electrical energy requires a well-structured approach that combines various teaching methods. It is recommended that educators develop standardized materials, integrate technology-enhanced learning tools, and emphasize practical applications to enhance students' comprehension and retention of technical terms.

Future studies could focus on developing specialized modules and teaching resources to further improve the methodology. Additionally, collaboration between academic institutions and industries is essential for aligning teaching methods with the needs of the workforce.

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