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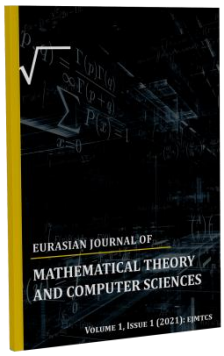

METHODOLOGY FOR PROVIDING CONTINUITY AND INTEGRATION ON THE BASIS OF TRANSFORMATION IN THE SUBJECT OF INFORMATICS AND INFORMATION TECHNOLOGIES

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ABSTRACT

The methodology for providing continuity and integration in the teaching of Informatics and Information Technologies involves a systematic approach that encompasses various aspects of the educational process. This methodology can be applied in both general secondary education and professional education settings. Therefore, the article presents the investigation of the methodology for providing continuity and integration on the basis of transformation in the subject of Informatics and Information technologies.

The methodology for providing continuity and integration in the teaching of Informatics and Information Technologies is of utmost importance in general secondary and professional education. This methodology ensures that students receive a well-rounded and comprehensive education in these subjects, preparing them for the rapidly evolving digital age [4].

Firstly, the needs assessment component of the methodology allows educators to identify the specific requirements and expectations of students in relation to Informatics and Information Technologies. This helps in designing a curriculum that is tailored to meet these needs, ensuring that students are equipped with the necessary knowledge and skills.

Curriculum development is another crucial aspect of the methodology. It involves designing a curriculum that is up-to-date with the latest advancements in Informatics and Information Technologies. This ensures that students are exposed to relevant and current information, enabling them to keep pace with the rapidly changing digital landscape [2].

Teacher professional development is also an integral part of this methodology. Educators need to continuously update their knowledge and skills to effectively teach Informatics and Information Technologies. Professional development programs help teachers stay abreast of new technologies and teaching methodologies, enabling them to deliver high-quality instruction.

Integration of technology is another important aspect of this methodology. Technology should be seamlessly integrated into the teaching and learning process, allowing students to develop practical skills and experience real-world applications of Informatics and Information Technologies. This integration enhances student engagement and prepares them for future careers in technology-related fields [5].

Collaborative learning is encouraged through this methodology, as it promotes teamwork, problem-solving, and critical thinking skills. Students are encouraged to work together on projects and assignments, fostering a collaborative learning environment that mirrors real-world work scenarios.

Real-world application is emphasized in this methodology to ensure that students understand the practical implications of Informatics and Information Technologies. By applying their knowledge in real-life situations, students gain a deeper understanding of how these subjects can be used in various industries and sectors [1, 46-48].

Lastly, evaluation and feedback are essential components of this methodology. Regular assessments and feedback allow educators to gauge students' progress and identify areas for improvement. This feedback loop helps in refining the teaching methods and curriculum, ensuring continuous improvement in the delivery of Informatics and Information Technologies education.

To implement this process, it is necessary to create opportunities for teachers to learn innovative methods and approaches, as well as to teach students how to use technological tools and programs. It is important to teach students to think critically and creatively in order to develop their problem-solving and creative abilities. Collaboration and community building are also important skills that should be taught [6].

Schools, higher education institutions, and universities should collaborate to promote scientific research, implement innovations, and ensure development. The importance of ensuring continuity and consistency in the teaching process of the subject of Informatics and Information Technologies is crucial in transforming the educational process.

Here are some specific steps that can be taken to provide continuity and integration in the teaching of Informatics and Information Technologies:

1. Develop a curriculum that includes both theoretical knowledge and practical skills related to Informatics and Information Technologies. This curriculum should be designed to provide a seamless transition from general secondary education to higher education or vocational training.
2. Provide professional development opportunities for teachers to enhance their knowledge and skills in teaching Informatics and Information Technologies. This can be done through workshops, seminars, online courses, and collaboration with experts in the field.
3. Integrate technology into the teaching and learning process. This can include using interactive whiteboards, computers, tablets, and other technological tools to enhance student engagement and learning outcomes.
4. Foster a collaborative learning environment where students can work together on projects and share their ideas and knowledge. This can be done through group work, discussions, and presentations.
5. Encourage students to use technology in their daily lives and in their learning process. This can include using educational apps, online resources, and social media platforms to enhance their understanding of Informatics and Information Technologies.
6. Provide opportunities for students to engage in real-world projects and problem-solving activities. This can include internships, competitions, and community service projects that require the application of Informatics and Information Technologies knowledge and skills [3].

By implementing these steps, it is possible to provide continuity and integration in the teaching of Informatics and Information Technologies, ensuring that students are well-prepared for the challenges and opportunities of the digital age.

In conclusion, the methodology for providing continuity and integration in the teaching of Informatics and Information Technologies involves a systematic approach that includes needs assessment, curriculum development, teacher professional development, integration of technology, collaborative learning, real-world application, and evaluation and feedback. By implementing this methodology, schools and institutions can ensure that students receive a comprehensive education in Informatics and Information Technologies, equipping them with the necessary skills to succeed in the digital age.

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