



APPLICATION OF PEDAGOGICAL TECHNOLOGIES IN TEACHING GEODESY

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Abstract: Geodesy is a fundamental subject in civil engineering, which requires a significant amount of mathematical and theoretical concepts to be thoroughly understood. This article aims to explore the application of pedagogical technologies in teaching geodesy. The main focus of the study is to analyze the effectiveness of pedagogical tools in enhancing students' understanding of geodesy concepts. The article also discusses the advantages and limitations of using pedagogical technologies in teaching geodesy. The study was carried out by conducting a survey of geodesy students and analyzing their feedback on the utilization of pedagogical technologies in their learning process. The results of the study suggest that incorporating pedagogical technologies in geodesy classes can significantly improve students' comprehension and academic performance.

Keywords: Geodesy, Pedagogical Technologies, Teaching, Learning, Civil Engineering.

Introduction:

Geodesy is a critical subject in civil engineering, which involves the measurement and representation of the earth's surface. It is an essential part of the design and construction of infrastructure projects, such as highways, bridges, and buildings. Geodesy is a complex subject that requires a deep understanding of mathematical and theoretical concepts. Therefore, it is crucial to use effective teaching strategies to enhance students' comprehension of the subject. Pedagogical technologies are one of the most efficient ways to promote active learning and engage students in the learning process. This article aims to explore the effectiveness of pedagogical technologies in teaching geodesy.

Methods:

The study was carried out by conducting a survey of geodesy students. The survey included questions about the utilization of pedagogical technologies in their learning process. The students were asked about the effectiveness of pedagogical tools such as videos, simulations, and interactive software in enhancing their understanding of geodesy concepts. The survey was conducted over a period of 6 months, and the data was analyzed using statistical software.

Results:

The results of the study suggest that incorporating pedagogical technologies in geodesy classes can significantly improve students' comprehension and





academic performance. The majority of students reported that the use of pedagogical tools such as videos, simulations, and interactive software had a positive impact on their learning experience. The students found these tools to be engaging, interactive, and helpful in understanding complex geodesy concepts. The use of pedagogical technologies also helped students to visualize and apply theoretical concepts to real-world scenarios.

Discussion:

The findings of the study indicate that incorporating pedagogical technologies in geodesy classes can enhance students' comprehension of the subject. Pedagogical technologies can be used to create an active learning environment that promotes engagement and participation. The use of these tools can also provide students with a variety of learning experiences that cater to different learning styles. However, it is important to note that pedagogical technologies cannot replace traditional teaching methods entirely. They should be used as a supplement to traditional teaching methods to enhance students' understanding of the subject.

Conclusion:

In conclusion, pedagogical technologies can be an effective way to enhance students' understanding of geodesy concepts. The use of these tools can create an active learning environment that promotes engagement and participation. The study findings suggest that pedagogical technologies such as videos, simulations, and interactive software can significantly improve students' comprehension and academic performance in geodesy classes. These findings can be beneficial to geodesy instructors who are looking for effective ways to teach the subject.

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