



Teaching Practice and Exploration of Engineering Mathematics Based on Informatization

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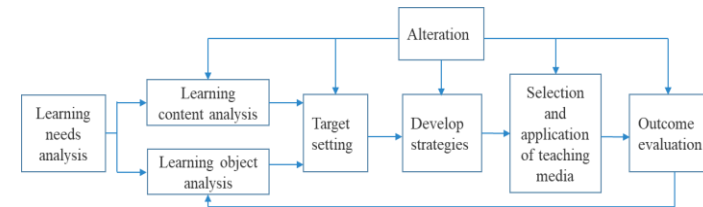
Introduction: Informatization is not only an important content of educational modernization, but also a key way to promote educational modernization. For the course of Engineering Mathematics, informatized technology can develop rich learning resources for students, provide them with a learning environment of observation, thinking and communication, and enable students to carry out creative learning activities. Therefore, informatized teaching is an opportunity for the course of Engineering Mathematics to change the traditional teaching method.

Purpose: How to make mathematics a fun course closely related to life are urgent problems for college teachers. Informatized teaching provides a new turn for Engineering Mathematics, which can significantly improve the teaching efficiency, make some difficult mathematical theorem definitions vivid, create an interesting classroom and increase the participation of students.

Method: This paper carries out the reform and exploration of Engineering Mathematics course from the aspects of teaching strategy, informatized instructional design, resource development, mathematics experiment and innovation evaluation, which can be effectively applied to the teaching practice and improve the teaching effect.

Results:

- Measures for informatized teaching of Engineering Mathematics
 - Creating an informatized teaching environment
 - Developing informatized teaching resources
 - Good use of informatized teaching strategies
 - Founding informatized teaching mode
 - Innovating informatized teaching evaluation
 - Paying attention to teachers and students
- The general model of instructional design



Conclusions: The teaching reform of Engineering Mathematics is a long-term project. Teachers should make full use of informatized teaching means and carry out mixed teaching in various forms to improve the pertinence and effectiveness of teaching. In the process of curriculum construction and reform, teachers should also constantly improve their information ability and change their teaching mode to be the students' promoters to acquire knowledge and skills. Finally, the deep integration of education and teaching theory based on information technology will be achieved.