

Theoretic Principles of the Adaptive Teaching Process

Abstract

The article describes a new form of e-learning – adaptive e-learning. The theory of this form is based on a series of pedagogical-psychological rules which are aimed at the technical possibilities of today’s IT. The very basics of adaptive e-learning is comprised of the student’s learning style and a group of algorithms which will assign a suitable study material to the student according to his/her learning style. This whole process is automatized and secured by a virtual teacher – control manager. Its functions will be described in detail in this article.

Keywords: individualization, adaptive teaching process, e-learning environment, adaptive study aids.

Introduction

It is known from the classic teaching that some school students might be hindered by and bored with collective teaching. Other ones, on the other hand, might find it too fast so, as a result, they might not be able to understand everything. Other students are satisfied with the teaching pace, but may not be satisfied with the teaching style of a particular teacher. Consequently, such students dislike some teachers and courses and their academic achievement might become worse (Vališov, Kracıkov, 2011).

Those reasons lead to the idea of the optimization of the learning process through the individualization of teaching. The individualization of teaching mirrors the already gained knowledge, skills, and learning style in the learning process of each student. Such a method cannot be applied in typical face-to-face classes where the student cannot be treated individually. The teacher can adjust their teaching style