Abstract

Adaptive E-Learning has become an important topic. It gives the student a central role in his/her own learning process. It allows students to try things out, participate in courses, tests and simulations like never before, and get more out of learning than before. On the other hand, mobile E-Learning has many advantages that contribute in enhancing and facilitating the learning process. In this paper, an adaptive mobile E-Learning (AME-Learning) model for system numbers, logic design, simplification of Boolean functions and related fields is presented. Such model presents suitable courses for each student in a dynamic and adaptive manner using existing database and workflow technologies. The presented model generates suitable units for each student in a dynamic form. Even the choice of effective E-Learning tools is seemingly endless. The main objective of this research work is to provide an AME-Learning model on based learners' personality using explicit and implicit feedback. To recognize the learner's style and profile, the dimensions given by both Felder-Silverman learning style model and our previous work [24-29] are developed. This is important to decide each individual learning style in order to accommodate different abilities for each student and develop his/her vital skills. Thus, the proposed model becomes more powerful, user friendly and easy to use and interpret. Finally, it suggests a learning strategy and appropriate electronic media that match the learner's preference. The proposed environment is designed by using Visual
Basic for modeling and Microsoft word for creating materials.

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