URN etd-0407109-183723-1923
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Statistics This thesis had been viewed 40 times. Download 0 times.
Department
Year 2001
Semester 2
Degree Master
Type of Document Master's Thesis
Language zh-TW.Big5 Chinese
Title The Construction and Implementation of E-Learning System on Southern Taiwan University of Technology
Date of Defense 0000-00-00
Page Count 80

Keyword
e-learning
virtual classroom
learning community
cooperative learning
knowledge management

Abstract
With the rapid progress of information and network technology, the Internet technology plays an important role in e-learning system. Many web-based e-learning systems have been introduced recent years. Nevertheless, most systems analyze e-learning activities only on technology functionalities, and result in failure or bad learning experience. Even though the analysis is based on pedagogy, the absence of complete e-learning framework will lead to lack of some requirements or functionalities.

In this thesis, we proposed an e-learning framework based on pedagogic theory related to learning community and virtual classroom. We also implemented the e-learning system based on this framework, which is currently operated on Southern Taiwan University of Technology (STUT). This system supports the regular learning activities (e.g., courses) for virtual classroom and the cooperative learning activities for learning community.

The proposed system includes four modules : (1) Cooperative Learning Environment (CLE) based on small group theory provides learners a variety of groupware of cooperative learning, (2) Learning Resource Development Environment (LRDE) provides instructors the mechanism for developing and managing the learning resources, (3) Virtual Classroom Management (VCM) offers instructors management functionalities for arranging learning activities and reviewing the performance of learners, and (4) Knowledge Management Mechanism (KMM) provides individuals and teams a flexible interface to store, classify and search knowledge constructed by individuals and teams.

The e-learning system has been operated for three semesters on STUT. In order to enhance the system, we analyzed the data collected by questionnaire surveys on the network, and proposed suggestions for the future work.
Advisory Committee Chien-Chun Su - advisor

Files No Any Full Text File.
Date of Submission 2002-07-03