

Yashil

IQTISODIYOT va TARAQQIYOT

Ijtimoiy, iqtisodiy, siyosiy, ilmiy, ommabop jurnal

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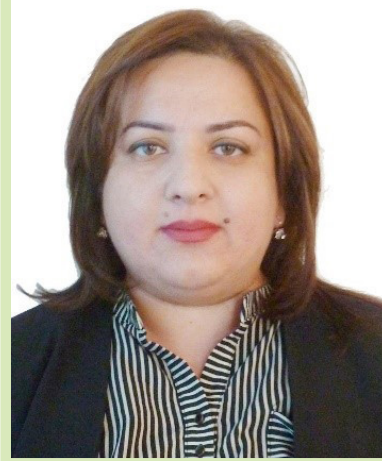
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THE USE OF INTELLECTUAL SYSTEMS IN THE IMPROVEMENT OF THE EDUCATIONAL PROCESS MANAGEMENT SYSTEM IN HIGHER EDUCATIONAL INSTITUTIONS



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Abstract: This article analyzed the theory of using intellectual systems that manage quality assurance in higher education institutions, and studied its scientific and practical results. The article covered a review of scientific theoretical views, an analysis of the literature on intelligent systems and LMS. The intellectual systems used in the higher education system of Uzbekistan were studied and analyzed. The design and implementation of the intelligent educational management system was analyzed using Fuzzy Clustering algorithm models.

Key words: Intellectual information system, quality management process, LMS, e-learning, electronic university.

Annotatsiya: Ushbu maqolada oliy ta'lim muassasalarida sifatni ta'minlashni boshqaradigan intellektual tizimlardan foydalanish nazariyasi tahlil qilingan va uning ilmiy va amaliy natijalari o'rganilgan. Maqolada ilmiy nazariy qarashlar sharhi, intellektual tizimlar va LMS bo'yicha adabiyotlar tahlili yoritilgan. O'zbekiston oliy ta'lim tizimida qo'llanilayotgan intellektual tizimlar o'rganilib, tahlil qilindi. Intellektual ta'limni boshqarish tizimini loyihalash va joriy etish Fuzzy Clustering algoritmi modellari yordamida tahlil qilindi.

Kalit so'zlar: Intellektual axborot tizimi, sifatni boshqarish jarayoni, LMS, e-learning, elektron universitet.

Аннотация: В данной статье проанализирована теория использования интеллектуальных систем управления обеспечением качества в высших учебных заведениях, изучены ее научные и практические результаты. В статье представлен обзор научно-теоретических взглядов, анализ литературы по интеллектуальным системам и LMS. Были изучены и проанализированы интеллектуальные системы, используемые в системе высшего образования Узбекистана. Проектирование и реализация интеллектуальной системы управления образованием были проанализированы с использованием моделей алгоритма нечеткой кластеризации.

Ключевые слова: Интеллектуальная информационная система, процесс управления качеством, LMS, электронное обучение, электронный университет.

INTRODUCTION

Currently, the higher education system is paying a lot of attention to the use of smart learning environments in the organization of teaching processes. In this regard, the issue of managing the educational process based on the introduction of information and communication technologies in our country was raised. The Law of the Republic of Uzbekistan "On the National Personnel Training Program" dated August 29, 1997 and the Decree of the President of the Republic of Uzbekistan dated May 30, 2002 "On Further Development of Computerization and Introduction of Information and Communication Technologies" prompted the beginning of reforms in the field of education.. According to the decision of the Cabinet of Ministers of the Republic of Uzbekistan "On measures to introduce the form of distance education in higher education institutions", the fields of bachelor's education and master's degree, where it is not possible to introduce the form of distance education determination of specialties by the Ministry of Higher and Secondary Special Education, organization of distance education using a special platform or using existing platforms, determination of the procedure for the admission of students to distance education and the organization of the educational process, as well as distance education Issues of organization of education quality monitoring were shown.

ANALYSIS OF LITERATURE ON THE SUBJECT

A.V. Ostroux's work promoting the conceptual foundations of using intelligent information systems should be highlighted. The problems of the connection of economic sectors with the educational system are described in the educational literature of our country's scientists ETMannopova, GNOKhunova, R. Alimov, BA Begalov, NM Makhmudov, Sh. Shodiyev and others.

RESEARCH METHODOLOGY

In this case, prediction of students' achievements based on Fuzzy C-means (FCM) and Collaborative Filtering (CF) was performed in FCM-CF models. The model has better predictive performance and is more suitable for predicting the exam scores of students in the higher education management system. The innovation of the intelligent learning management system is that it has two more functions in addition to the main data management function:

- predictive analytics for student performance and predicting teacher evaluations. It can support data to improve the quality of education.

To ensure that the system is practical, relevant educational standards and systems should be taken as a benchmark.

Principle of System Openness and Commonality: The design of systems should be open in order to facilitate the sharing of information and data and the operation of users across platforms.

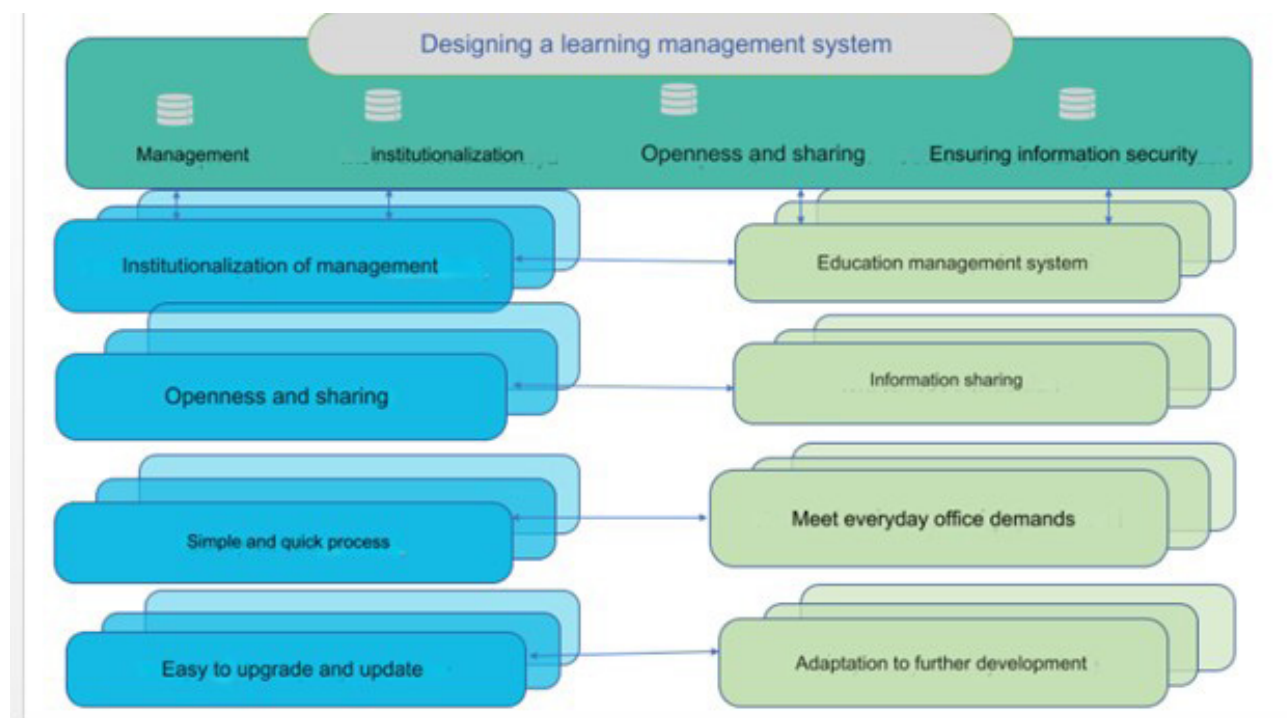


Fig. 1: Design principles of educational management system

Principle of ease of access: Most of the educational process is relatively easy to manage, therefore, the operation of the system should provide simple and quick access to facilitate management.

The principle of easy update: The complexity and variety of information requires that the learning management system be easy to update and subsequently improve.

Principle of security and reliability: Educational process management systems should have a high level of security and stability.

The electronic requirements for the functions of the educational process management system mainly include:

Build and manage academic status database, enter and edit academic data.

Forming a general educational plan for the institute, issuing a curriculum for the institute and drawing up a curriculum for teachers and review of the curriculum by the academic administration.

Entering, querying, editing and statistics of educational materials.

Extracting curriculum information from academic activities



selection of courses by administration, survey and students, consolidation of course selection data and re-selection of courses.

Setting the place and time of the inspection, selecting and identifying the supervisor and other requests for relevant information.

Statistical analysis of students' scores by teachers, automatically by the system on the individual performance of students, and input and editing of student requests and complaints.

Conducting teacher self-evaluations, evaluations by students, colleagues, and supervisors, and statistical analysis of evaluation data.

The LMS system is used to perform the following tasks and achieve these goals:

1. Education process to manage automation and centralization.
2. Students to them access opportunity provision for educational materials placement.
3. Remote teaching technologies (DLT) standards maintain relevance.
4. Education materials again use provision, education personalization of content.
5. Education process participants between mutually cooperation opportunities to do and tools expand.

Of the educational process management system is structured as follows (Fig. 2).

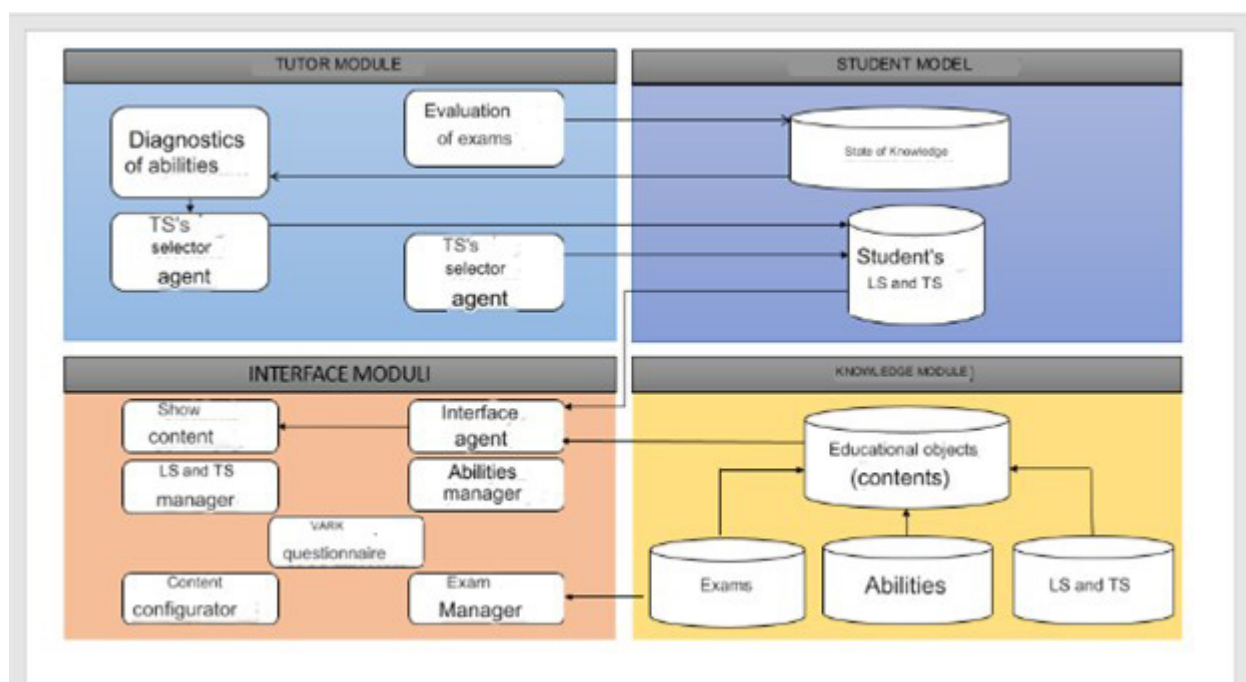


Fig. 2: Architecture of educational process management system

Training courses and modules are created in the LMS structure. LMS's structure is one of the most important parts for managing the learning process. With the help of this structure, students and teachers will be able to perform their tasks and manage the educational process. Each course or module provides students with the opportunity to study a specific topic.

Learning materials such as video tutorials, e-books, audio files, quizzes and other supplementary materials are stored in the LMS.

Currently, there are two methods of mixed C/S and B/S model: one is called "request/change" model, and the other is called "internal/external" model (Figure 3-4). In the B/S and C/S mixed software architecture of the "request/change" model, regardless of whether users connect to the system via the Internet or LAN, if the maintenance and change of data operations if necessary, the C/S architecture is required to be used. This table lists several uses as an "Information System". "Request / change" model, which provides information search and learning for users of the system. The "internal/external" model shows internal resources (books, journals, reference books) and external resources (websites, personal blogs, social networks) for reading educational materials available in this system. If only general query and view operations are performed, B/S architecture is used.

In conclusion, it can be said that the architecture and components of HE portal integrated with educational environments should meet the functional requirements.

To date, the higher education system uses information systems created on the basis of the internal capabilities of HEI (by HEI employees) and information systems developed by other companies or created according to specific needs.



Software products developed by companies can be divided into the following according to their functional characteristics:

- complex software products;
- monolithic systems, i.e. systems where additional functions cannot be implemented;
- modular systems, that is, systems that can be connected to the existing information system as an additional module, with the possibility of adding new functions to the overall system;
- platforms for creating automated management systems;
- server components;
- special development tools;
- A separate program or module created for the purpose of automating the activities of the HEI or its department;
- test or training process

CONCLUSION

The architecture and components of the HEI portal combined with educational environments should meet the overall functional requirements.

To date, the higher education system uses information systems created on the basis of the internal capabilities of HEI (by HEI employees) and information systems developed by other companies or created according to specific needs.

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- Platforms for creating automated management systems;
- server components;
- special development tools;
- a separate program or module created for the purpose of automating the operation of the otm or its department;
- automation of the test or training process (designed to control the quality of the training process).

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