ANALYSIS OF AUTOMATIC CONTROL SYSTEMS
IN HIGHER EDUCATION

Khachatryan S.V., Reshetnyak Y.B.

The National University of Pharmacy, Kharkiv, Ukraine

reshyuri@gmail.com

At the modern stage there was a discrepancy between operating control system by an educational process in higher educational establishments and the latest requirements for its functioning. In an inheritance from the Soviet system of education, Ukraine received the traditional means of document management at the university. And now, in many schools the documents reflecting the educational process, are formed and stored in the form of paper catalogs with different lists, maps, reports, records, and so on. The market of such systems is gradually formed, where both the commercial versions created by independent producers and systems worked out directly in institutions of higher learning are offered, where these facilities are exploited.

For today practically in every institution of higher learning automated information systems (AIS) operate with next functions: it is a management by the contingent of students; it is planning of educational process; it is an account of current progress and visited; it is a calculation of grant; it is forming of time-table; it is electronic circulation of documents.

Consider some of them.

Program complex "Automated system management institution" (http://mkr.org.ua/) is a set of related programs. It includes modules operating in an environment windows (training module, the dean's office, the applicant, methodical department, human resources, etc.), as well as web portal (mapping class schedules, performance, curricula, charging for a hostel, control Tuition fees and hostel testing of students, recording students to study subjects, etc.

The complex is embedded in many universities, particularly in the National University of Pharmacy, the National Law University et al.

System "Sail schools" (www.parus.ua/ru/263/469/) allows accounting students (form of training, the availability of student contract, budget form, the number of records in the context of faculties, departments, specialties, courses, groups, student enrollment, analysis of quantitative and qualitative data on students). The system also provides the control students (monitoring of attendance and organization of

admission to the territory of the university dormitories, libraries, automatic registration of entry, exit, movement of students, time management gaps).

The Ministry of Education recommends for implementation in universities software "Automated system of" Higher education institution ", developed by the Research Institute for Applied Information Technology (www.ndipit.com.ua/ru/rozrobky/asu-vnz/). The system includes speakers "Admissions Committee" AS "Dean" and AS "Campus". Automated control system of the educational process is designed to automate the activities of personnel training department, deans, chairs and management of higher education. The system consists of a central database, and two automated systems, "Calculation of the load of teachers" and "Scheduling classes." The system is designed taking into account the characteristics of the organization of training in the light of the Bologna process.

Software PE "Politek SOFT" (www.politek-soft.kiev.ua/ru/) is intended for educational institutions of Ukraine from I to IV accreditation levels, covers almost all aspects of their activities, registered in the Register of producers and distributors of software has a newsletter from the Ministry of Education and Science, Youth and Sports of Ukraine on the application in higher educational institutions of Ukraine.

The package is built for a client-server technology that allows you to install it on multiple computers that are connected to a local network and work with a single database. The use of additional Web-scripting allows access to a database of individual programs packages from the World Wide Web Internet. As a server, database management using FireBird.

The package has a convenient report builder that lets you create and edit existing accounting documents using HTML - Hypertext Markup Language. Accounting documents, which generates a packet can be viewed before printing programs in MS Word, MS Excel, Internet browser, and further edit according to user preferences.

All of these ACS characterized the relatively high cost, because they require the upgrading of existing systems for a particular university.

IP personal development, tend to be less stable, more dependent on their personal support developers worse documented. However, the systems developed directly in higher education, it corresponds exactly to the specific conditions and requirements quickly and flexibly responds to changes in legislation and the general economic situation, and they are more convenient for use by persons of certain specific educational institution.