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## CODING OF DISCIPLINES AND PROGRAMS OF TRAINING (ИНДЕКСАЦИЯ ДИСЦИПЛИН И ПРОГРАММ ПОДГОТОВКИ)

Рассмотрена проблема необходимости разработки и внедрения системы кодирования дисциплин и программ подготовки. Приведены основные принципы создания данных систем в Великобритании и США, как пример национальной системы кодирования. Рассмотрена система индексации курсов в университете Лаппеенранты в Финляндии. Приведены некоторые возможные принципы для создания системы индексации в Российской Федерации.

In the whole world the intensive development of the international communications is observed in the field of education. The number of the students wishing to receive education in other countries is growing. The exchange programs among different universities are developing. Each year the amount of educational establishments offering the services in the field of international education and a science is increased. Higher educational institutions of Russia also have appeared on the international market of educational services. If you want to grasp the large share of the market and make you goods competitive it's necessary to create their proper representation in the market.

As a rule, the universities give the information on offered educational services in the advertising editions or on web-sites in the Internet. The information should give brief, but clear for all users facts. The items of information should be necessary and sufficient to decide to use or no offered services. Therefore requirements to the represented information are rather high, taking into account the fact, that the educational services offered by educational institutions on a paid basis, for example, in Great Britain, make up to 30% from the consolidated budget of high school.

One of the way to perform the above requirements used by many countries and educational institutions is coding. Coding means giving to program of training, direction of preparation and/or to discipline the certain digital, warranty or mixed code, on uniform system of high school. The index (or code) allows to determine the basic direction of a science in the compressed form, to which the discipline belongs (history, economy etc), complexity level of discipline (rate for learning of the first year of training or the rate for masters), faculty teaching this discipline etc. Coding allows to transfer plenty of information using just of several figures and letters, that is very important for successful work in the international market of educational services. Besides, coding allows to simplify many organisational procedures: filling of the application form in an educational institution, conducting the educational documentation, pupils progress observation, drawing up of transcript to the diploma etc.

At present there is no world uniform system of subjects coding, though it is possible on the basics of the International Classification Standard of Education. The carried out researches have shown, that the systems of coding are being developed and improved both at a state level, and at a level of universities. Certainly, the uniform state system of coding has essential advantages, because it allows:

- to represent uniformly all educational establishments of national system of education and their programs at the international market;
- to process effectively applications forms, including, in an electronic owes, especially using of application system of entering higher educational institutions according results of training in complete high school, that is used already in many countries and that is supposed to be introduced in Russia (such system already is used in our country for accepting foreign students,

which are applying to receipt the grant of Russian Government);

- to choose subjects by the foreign citizens more precisely for the included education;
- to create uniform statistical control system of the foreign citizens academic mobility;
- to simplify process repassing of subjects for transition of national and foreign students from one educational institution to another etc.

The system of coding used in Great Britain, can be considered as an example of nation-wide system coding system. In Great Britain, in connection with realisation of state policy aimed at its' appearance the country in the international market of educational services and necessity represent their educational institutions, the special organisation UCAS (Universities and Colleges Admission Centre) was created. UCAS functions set out above and, at the same time, plays a role of organisation conducting all marketing researches and attracting foreign students to the country. The centre is the organisation representing all educational institutions of the country at internal as well as at international market. All British educational institutions in their advertising materials, use the appropriate indexes under the scheme of coding developed by UCAS, for representation the programs of training and disciplines, offered for study. In this scheme all taught disciplines are referred to the certain groups designated by the letters of the English alphabet, and the appropriate discipline within the limits of the given group is designated by a serial number. So, the code of discipline consists of the letter of its group and figure. In modern education, as a rule, any taught subject is of applied character. For example mathematics necessary for the future biologist, under the contents and set of investigated sections differs from mathematics, which should be used in the work of the future architect for representation the programs of training and disciplines, offered for study. To differ one-profile disciplines the combined codes are used. I can't by mention disadvantages of the given system - a complexity level of discipline is difficult to be determined. The combination of the letters and figures, used in a code, is carried out systematically, but it is not logical. Therefore using of this system is possible only together with the decoding of codes directory.

Other example of the centralised system of coding is the system used in the USA, where the rules of disciplines coding are established by the USA department of education. Above all, the American system allows students to be independently, according to codes, to choose subjects and order of their study depending on a level of complexity and priority, as the students should choose for study both basic special disciplines, in the obligatory order and additional disciplines from the basic area of training. The subjects codes includes section number, which specifies a place of the given subject in the time-table.

In some other countries the universities develop their own coding systems, that is less effective for representation of educational system of the country at the international market of educational services. For example, in Lappeenranta University of Technology in Finland the code of discipline reflects only its belonging to the certain branch of a science and specifies department or faculty, which provides teaching the given discipline.

In Russian Federation there is only state qualifier of specialities, which reflects a general direction and duration of training, and also classification of the graduate. For successful development of the international education at a modern level it is necessary to develop system of disciplines coding, which would reflect their belonging to the basic program of training; discipline orientation on the certain area of preparation of the graduate; degrees of discipline complexity; teaching faculty of the given discipline. The developed system should take into account the national system of coding of directions and specialities of training. It is also necessary to develop the system of coding of the state and private educational establishments, connected with federal districts.