

Usage of information technologies during education of experts of sewing branch

**Lyudmila A. Koroleva
Anna V. Podshivalova
Tatyana M. Bojtsova
(Vladivostok State University of
Economics and Service)
Vladivostok, 690014**

The summary: For the effective and complex decision of administrative tasks such as improvement of quality of education management, operative reaction to change of expert's needs, introductions of new forms of training, is required use of modern information technologies. In the article results of the analysis of electronic information sources are resulted in the field of designing and manufacture of clothes and the urgency of development of the Internet-project «Technology of sewing products» (IP "TSP") is proved. The basic purpose of development IP "TSP" is creation of maximum useful, information-stated product, in which users should become students of various forms of training, teachers and experts of the branch. The approach to creation the Internet-project includes introduction of new information technologies in process of training.

Key words: information technologies, education, designing of clothes.

No matter what skilled expert in the area you would not be, what practical skills you would not get, now, this experience is nothing without communication devices. The birth and development of the Internet

became the beginning of a new era in a history of mankind, brought revolutionary changes in professional and household life of people. The term "Internet" rapidly has lost the singularity and has come in daily lexicon. In the Internet huge amount of the information about all branches of knowledge is concentrated. That is a science, education, work, finance, industry, goods, services, news, music, films.

Nowadays people specify their site's addresses, e-mail addresses with post addresses and local telephone numbers on publicity boards, in newspaper announcements and on TV very frequent. The prestige of serious firms can easily fail if the Internet is not used in its activities.

The Internet has penetrated our ordinary life so deeply, that any modern person required elementary understanding of its structure and skill to use is required by the most important resources even.

Now the Internet contains many resources, devoted to the industry of fashion. Visitors of these resources can be divided conditionally into two types - "ordinal users", i.e. people were interested in an end-product (i.e. clothes, footwear, accessories), and "professionals" - the experts directly occupied in sewing industries.

The most part of the information is intended to "ordinal users" of the fashionable industry. These are numerous electronic fashion magazines; the sites containing

electronic versions of periodicals (<http://www.osinka.ru>, <http://www.season.ru>, <http://www.devicchnik.ru>); advertising pages of the enterprises showing production or collective, offering the services in this or that area (for example, «The Workshop of knitted products» to the address <http://vjyzanie.ru> suggests author's models of knitted products); personal pages of creatively gifted people (<http://artstitch.narod.ru> where works on an art embroidery of Larissa Sokolova are submitted). More and more popular there is the electronic trade, allowing to make purchase of any goods in any point of a planet (for example, <http://www.medien-werksatt.com>).

For the professional invaluable assistants are the resources-portals specializing on gathering, classification and the analysis of the information in the field of the industry of a fashion (<http://www.legprominfo.ru>, <http://www.textileexpo.ru>); industrial sites (<http://www.welltex.ru>, <http://www.trekhgorka.ru>), designed for information service of experts of light industry. A fast and reliable way of reception of the necessary information - the specialized information retrieval systems (for example, <http://www.cotton.ru>, <http://www.textilemarket.ru>) where everyone, except reception of data, can place the information, the enterprise, professional advertising. From such addresses as <http://www.cniishp.ru>, <http://www.lekala.ru>,

<http://assol.mipt.ru> it is possible to receive the information necessary for industrial, commercial and scientific activity, maintenance of professional growth.

The analysis of electronic information sources has shown a comparative saturation of the Network the specialized "sewing" information. However information for students on a direction 656100 «the Technology and designing of products of light industry» not always appears enough. In most cases any of the submitted information resources does not give an opportunity to study State Standard or to get acquainted with feature of methods of technological processing (MTP) of a bottom of a skirt-goder, to carry out a choice concrete MTP for the chosen projected model, to collect the information for drawing up of a technological map or sequence, to define labour input of manufacturing any kind of product. On pages of such higher educational institutions as the Moscow state university of design and technology (<http://www.mgudt.ru>) or the St.-Petersburg state university of technology and design (<http://www.sutd.ru>), experts carrying out preparation in the field of the industry of a fashion, is absent a similar sort the information, basically, the information giving representation about university as a whole is submitted. Thus, absence at present in Networks of the similar information collected together and at the same time need for it creates

preconditions for creation the Internet-project, or a site.

The basic purpose of development the Internet-project «Technology of sewing products» - to create maximum useful, information-stated product which users should become students of various forms of training, teachers and experts of the branch.

The concept of a site provides integration into the uniform logically interconnected structure of set of the individual sections consisting of data on various disciplines, representing interest for the expert in the field of the industry of a fashion. The Internet-project «Technology of sewing products» is created to solve problems of information search, will allow to collect together all necessary for work of experts - sewers the information or, at least, its big part.

Now work on creation the Internet-project is conducted in several directions:

- Development actually a site with convenient (for the nonspecialist in the field of information technologies) the interface;

- Restructuring and updating of the information in most information-capacious section «Products from a fabric» one of the basic modules of the site – The universal data base of methods of technological processing outer clothing (UDB MTPOC);

- Structurization of technological decisions and filling UDB MTPOC in the subitems

connected to manufacturing of clothes from a natural skin and knitted cloths.

Special and normative literature, electronic resources the Internet, and also the analysis of methods of technological processing of finished articles are information sources of creation IP "TSP" materials.

The structure of a Web-site (figure 1) assumes allocation of several independent sections:

- The universal data base of methods of technological processing outer clothing (UDB MTPOC);
- The thesaurus;
- Lessons;
- News;
- Help.

Search of ways of the organization of the information for site "TSP" went in two directions: studying of "traditional" sources (book editions) and carrying out of researches in the Internet. By development of the basic unit - UDB MTPOC - it was important to find a way of granting of the information, intuitively clear for the expert-sewer. The principle of division of all methods of processing has been put in a basis of development of structure UDB MTPOC on used materials: fabrics, a knitted cloth, a skin and fur, and also on processable units that corresponds to logic of decision-making on choice MTP. First for model depending on purpose the material is selected, and then according to a material methods of technological processing are selected. Thus, work on formation of

the initial information for module UDB MTPOC consists in the following: to collect possible variants MTP of the basic technological units, to structure them by way of technological sequence and to organize ways of access to them.

At present addition and perfection of initial variant UDB MTPOC is carried out also. Technological decisions of products from various materials, such as jersey, a natural both artificial skin and fur.

For fluent viewing each circuit of processing will be laid out in specially developed for the Internet-projects a format jpg, occupying small volume of the information. On click on concrete figure will be loaded corresponding graphic the file-circuit in a format dwg and the text file containing sequence on processing of the unit.

The circuit of statement of a task of the Web-site "Technology of sewing products» is demonstrated in figure 2. The circuit includes tasks, methods and means of developed system. For realization of the task the method of designing of DB SQL Server, technologies HTML and Personal HomePages (PHP) is used.

The programming language PHP (Personal Home Page) was selected for programming for creation Web-site «Technology of sewing products». A basic element of structure of the site is the module. Each fragment of the site is located in the separate module which can be

connected there where it will be necessary. Thus, the problem of updating of the site, its structure is solved; an opportunity of updating of an information database of a site. For addition of the data in the database technology PHP which provides addition, change and viewing of the data in UDB MTPOC is used.

The system should provide: working in the Internet and Intranet; escalating UDB MTPOC by means of the web-interface; the convenient interface for users; an opportunity of input and editing of the data; searching of the data in UDB MTPOC by the set criteria.

The architecture of a site allows users - *managers* independently to work with a uniform database, to fill in it, to edit, make new technological sequences and to develop graphic figures, and to *clients* - to look through, choose, copy the necessary special information.

Development of the Web-site «Technology of sewing products» will allow to improve, increase quality and to simplify transfer of the information from a source (teachers, experts of branch) to the consumer (to students of various forms of training, students of courses of improvement of qualification, pupils).

The practical importance of creation of a Web-site consists that it is integrated into educational process for maintenance with theoretical and practical materials on special disciplines of faculty of the Industry

of a fashion, for example such, as «Methods of qualitative connection of clothes' details», «Processes of manufacturing of outer clothing», «Technology of sewing products», «Materiology of sewing manufacture», etc. Having visited a resource in the given project, the user can find, study and choose the information necessary for; to go deep into studying this or that special discipline by means of electronic rates of lectures or to be prepared for laboratory works, using the laboratory practical works placed on a Web-site «Methods of qualitative connection of clothes' details» in two parts, «Processes of manufacturing of outer clothing»; to check up and fix the knowledge on technological disciplines through development of the submitted tests.

The approach to development the Internet-project includes introduction of new information technologies in educational process. Program-technical decisions allow to ensure the functioning of users on a network the Internet, a local network. For work with a resource (IP "TSP") it is not required to the end user of special programs or devices.

The Internet-project «Technology of sewing products» will allow bringing together all necessary for work of experts-sewers information or, at least, its large part. Now availability of the Internet to the majority of users plays an important role - by development of the similar information project it is not necessary to forget about

opportunities of a network. Presence at Vladivostok state university of economic and service of own local network, equipment modern computers of the divisions, special classes and reading rooms will allow students and teachers constantly to address for the specialized information to the given resource. In the near future by means of created the Internet - the project probably carrying out of the specialized conferences, "on-line" seminars, carrying out of consultations for students specialty «Technology of sewing products», «Designing of garments», trainees either in branches VSUES, or under the in remote form. Besides it students of the in remote form of training will get access through a network the Internet to normative-technical, special sources in the concentrated kind, that, will affect quality and depth of received knowledge, despite of the chosen form of training.