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Uzasadnienie treści kursu "Systemy redakcyjno-wydawnicze” dla kształcenia zawodowego przyszłych inżynierów-pedagogów o profilu komputerowym

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SUBSTANTIATION OF COURSE CONTENT "PUBLISHING SYSTEMS" FOR PROFESSIONAL TRAINING OF FUTURE ENGINEER-PEDAGOGUES OF COMPUTER PROFILE

Abstract

The article deals with the problem for the courses editorial and publishing system "for vocational training of future engineers and teachers. The features of fixed and alternative education programs for working with modules: vector graphics, raster graphics, polygraphy.

UZASADNIENIE TREŚCI KURSU „SYSTEMY REDAKCYJNO-WYDAWNICZE" DLA KSZTAŁCENIA ZAWODOWEGO PRZYSZŁYCH INŻYNIERÓW-PEDAGOGÓW O PROFILU KOMPUTEROWYM

Streszczenie

W artykule rozpatrywany jest problem metodycznego zaopatrzenia kursu „Systemy redakcyjno-wydawnicze" dla kształcenia zawodowego przyszłych inżynierów-pedagogów o profilu komputerowym. Cechy stacjonarnych i alternatywnych programów edukacyjnych w pracy z modułów: grafika wektorowa, grafika rastrowa, drukowanie.

Problem statement. Preparation of future engineers-teachers in higher educational institutions demands improvement of methodical providing separate courses. «Publishing systems» also is a part of professional disciplines which include preparation of future engineers-teachers is one of such courses. The necessary direction of updating of the contents and study structure «Publishing systems» is use of the graphic programs such as Photoshop, CorelDRAW and InDesign. Studying of these programs demands continuous mastering by modern development in graphic editors, perception, assimilation and use of new introductions, and consequently also changes in the contents and methodical providing a course for formation of professional skills. The science and equipment for a modern labor market demands the professional expert. Improvement of vocational training of engineers-teachers of a computer profile studied «Publishing systems» is impossible without introduction of certain changes. Updating of structure and the content of study in educational process can provide software such (as Photoshop, CorelDRAW and InDesign).

Analysis of publications and researches. Problems of modern vocational training of students of engineering and pedagogical specialties are considered by A.T. Asherov, O.E.

Kovalenko, N. I. Lazarev, V.K.Sidorenko's works, etc. However there are no researches which open specifics of formation of professional knowledge in «Publishing systems». Analyzing a problem of vocational training of future engineers-teachers, the special attention should be turned for a role and a place of computer technologies in educational process [1, page 319]. A problem of the content of education, semantic filling of this or that training course - an important problem as didactics of the higher school and techniques of teaching of separate subjects, to the matter S.I. Arkhangelsky, V.S. Lednev, V.P. Bezpalko, L.P. Leontyev, O.G. Gokhman's devoted works, etc.

The researches carried out by us showed that there are not enough scientific works devoted to a problem of selection of the contents and methodical providing a course «Publishing systems».

Article purpose - to prove the maintenance of a course «Publishing systems» and to define ways of introduction to practical activities on an example of study of students of engineering and pedagogical faculty of TNPU of a name of V. Gnatyuk.

Statement of the main material. Graphic training of specialists of an engineering and pedagogical profile, should answer the following didactic principles: scientific character of the maintenance of a training material; availability; presentation; systems and sequences; creative activity; independence; to an individual approach; a theory sheaf with practice; to a politekhnizm; professional orientation; to psychological and pedagogically features of perception of information [2, page 20; 3, page 298]. For realization of these principles in educational process the special role is played by its semantic filling.

Present time demands improvement of vocational training of experts that is impossible without introduction of the new computer programs, new graphic editors, software packages, Internet resources which open perspective possibilities for development of skills of future engineers-teachers. In our opinion, and perspective use of the graphic programs Photoshop, CorelDRAW, InDesign for filling of the contents and methodical providing a course «Publishing systems» is interesting.

Existence the visualization of results, preview of objects before the press, introduction of final changes, the press of finished goods (the booklet, business card, booklet, and so forth) is feature for the graphic programs Photoshop, CorelDRAW, InDesign. Each of these training programs has the advantages and shortcomings, for example, as is shown in fig. 1, CorelDRAW it is best of all to use for vector graphics, Photoshop for raster graphics, InDesign for polygraphy. The scheme of graphic providing in a course «Publishing systems» is developed and offered by us testifies that these graphic editors it is possible to use for each module and students have possibility to reach certain results, however we recommend use to them as the main programs for work with the module or as alternative programs. Novelty of our researches also consists in it, we offer to use of training programs for the first time as the main and alternative that is reflected in the scheme of graphic providing a course «Publishing

systems». Therefore we suggest entering into the training program concept the "main" and "alternative" program for work with the module.

Here also creative abilities of students, creative search, the independence which essence consists in work with the main or alternative programs will be shown.

Programs of imposition and prototyping are one of the most popular and convenient programs of prepress [4, page 179]. Appeal of programs is that formally being imposition and prototyping programs, they success fully play a role of the simple vector editor. Besides, as distinct from QuarkXPress which till now was de facto in branch of systems making-up, perfectly work with Cyrillic type, do not demand obligatory existence English keyboard (as we met in previous versions of QuarkXPress) and, in general, more careful works with Ukrainian language [5,page 7]. In our opinion, mastering by programs of imposition and prototyping provides formation at future engineers-teachers of the following professional skills: ability to use the latest software, innovative technologies, to choose the most expedient software, to work with professionally important information. The acquired professional skills give the chance to future experts to be able to make a search, a choice, estimation, ordering, and the analysis.

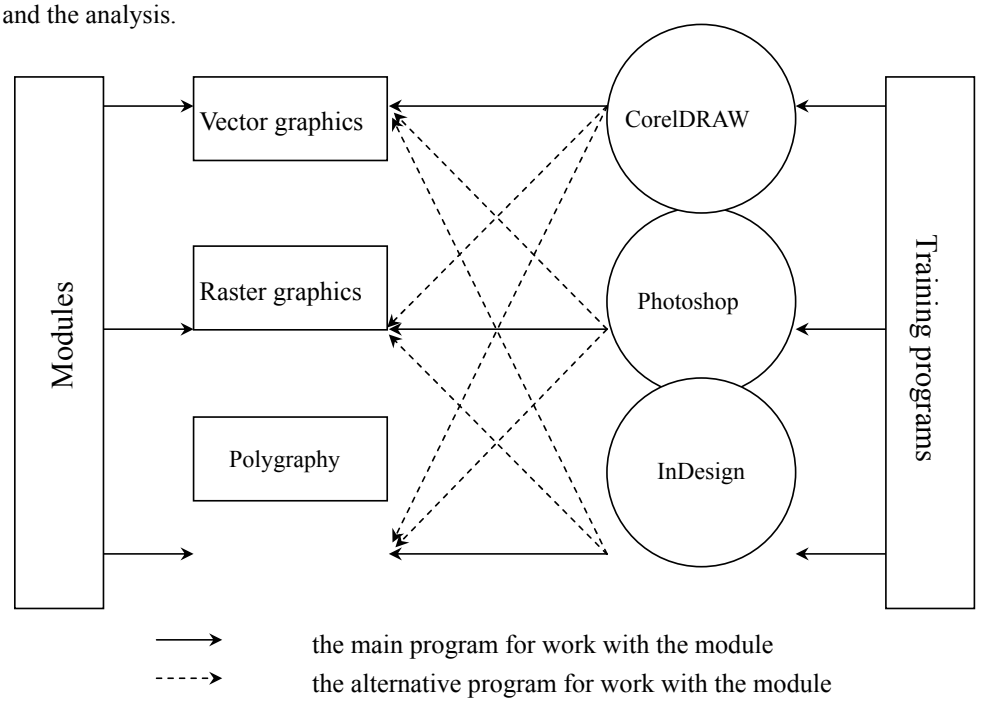

Fig. 1. The scheme of graphic providing in a course «Publishing systems»

Description of a training course «Publishing systems».

4 credits which answer the ECTS standard, enter into a course, 1 educational module

which also includes the educational project (IERT), semantic modules 2, total of hours - 144, week hours - 2, educational and qualifying level - the expert.

Characteristic of a training course: the subject is obligatory, is studied on the 4th year of preparation in the 8th semester. At lecture (theoretical preparation) 26 hours are taken away, practical (laboratory works) 32 hours, for independent work are taken away 72 hours, for individual work 14 hours, on preparation of the educational project and its writing are taken away 4 hours, a type of control - the differentiated credit.

The carried-out analysis of the educational and qualifying characteristic and the training program showed that students study the following software: QuarkXPress system, CorelDRAW system, PageMaker system. The listed educational systems for this time out-of-date and practically are not used. The modern software demands regular updating, therefore in our opinion of the updating contents of the training program to possible to use under a condition: Adobe Photoshop, CorelDRAW and Adobe InDesign.

Poll carried out between teachers and teachers of computer technologies showed that there is a problem in professional development: logo, emblem, business card, invitation, cover of the book and magazine, brochure, calendar, newspaper. The solution of this problem possibly only under conditions of mastering by software packages of Adobe Photoshop, CorelDRAW, Adobe InDesign

According to the training program предвидена credit and modular system of estimation of a course, we offer the following version (table 1) which gives the chance to estimate the acquired knowledge and abilities fully.

Table 1. Credit and modular system of estimation of a course «Publishing systems»

Module 1			**Module 2**			**Module 3**		**IERT**	**Total test**	**Sum**
Vector graphics			**Raster graphics**			**Polygraphy**		**Polygraphy**		
15			40			20		15	10	100
Logo	emblem	Business card	invitation card	magazine cover	book cover	booklet	Calendar	newspaper		
5	5	5	10	15	15	10	10	15		

The tasks offered by us are creating according to standards of education, professional activity and a modern labor market.

According to our methodical system the course «Publishing systems» is divided into three modules (fig. 2):

Module 1: «The vector graphics». Work with the module is based on knowledge of the CorelDRAW program. Work with CorelDRAW gives the chance to create ability and skills of work with curves, figures, text editors, fillings and contours, grouping objects, works with color, use special effects, transformation of objects, placements of illustrations on page, color and tone correction of the image, the press. During operating time with the module students

perform the following laboratory works:

• Laboratory work No. 1. Subject: «To develop design of a logo». For performance of this laboratory work the student can gather the maximum quantity - 5 points (Table 1.);

• Laboratory work No. 2. Subject: «To develop design of an emblem». For performance of this laboratory work the student can gather the maximum quantity - 5 points (Table 1.);

• Laboratory work No. 3. Subject: «To develop design of the business card». For performance of this laboratory work the student can gather the maximum quantity - 5 points (Table 1.);

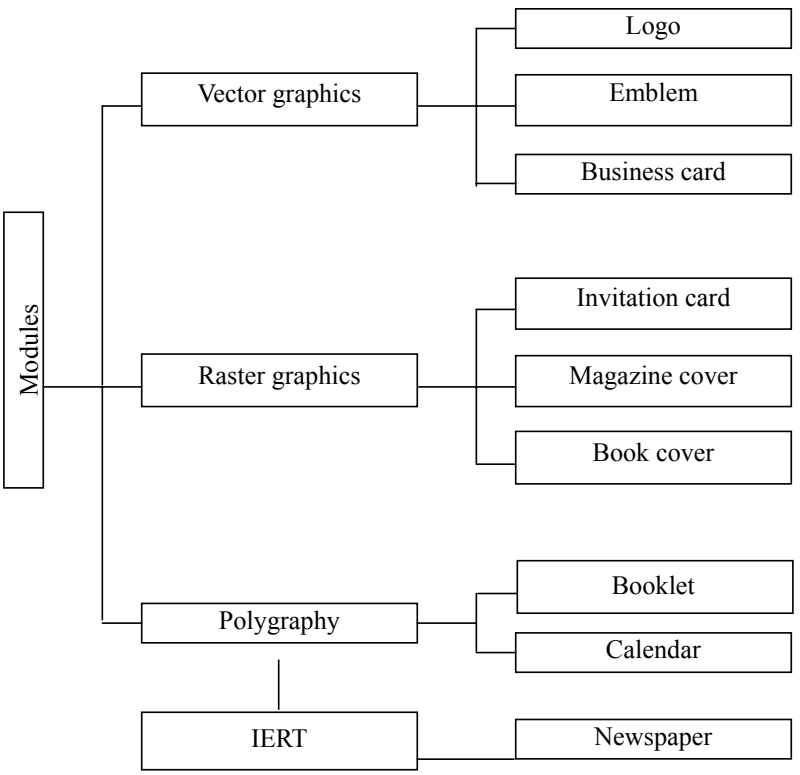

Fig. 2. Scheme of methodical providing course «Publishing systems».

Module 2: «The raster graphics». Work with the module is under construction on knowledge of the Adobe Photoshop CS5 program. Work with Adobe Photoshop CS5 gives the chance to create ability and skills of drawing and retouching the image, drawing, editing and renewal the image, creation and application of masks and the filters, a correcting filtration, distortion and effects, work with layers, bases of management of color, color settings, the press. During time with the module students perform the following laboratory works:

• Laboratory work No. 4. Subject: «To develop design of the invitation card». For performance of this laboratory work the student can gather the maximum quantity - 10 points (Table 1.);

• Laboratory work No. 5. Subject: «To develop design of the magazine cover». For performance of this laboratory work the student can gather the maximum quantity - 15 points (Table 1.);

• Laboratory work No. 6. Subject: «To develop design of the book cover». For performance of this laboratory work the student can gather the maximum quantity - 15 points (Table 1.);

Module 3: "Polygraphy". Work with the module is under construction on knowledge of the Adobe InDesign program. Work with Adobe InDesign CS5 gives the chance to create ability and skills to use color, management of color, formatting of symbols, formatting of paragraphs, global formatting, work with a test material, import and text placement, graphics import, linkage of files, text and graphics configurations, dummy formation, the press. During operating time with the module students perform the following laboratory works:

• Laboratory work No. 7. Subject: «To develop design of the booklet». For performance of this laboratory work the student can gather the maximum quantity - 10 points (Table 1.);

• Laboratory work No. 8. Subject: «To develop design of a calendar». For performance of this laboratory work the student can gather the maximum quantity - 10 points (Table 1.);

Also by means of the program of imposition and InDesign prototyping, the individual educational and skilled task (IERT) is carried out:

• Individual educational and skilled task: «To develop design of the newspaper». For IERT performance the student can gather the maximum quantity - 15 points (Table 1.);

In our following publications we will try to stop on important points of preparation students of engineering and pedagogical faculties, and also methodical features of use of the Adobe InDesign CS5 program in educational process.

Conclusions. In view of computer providing educational institutions, we suggest to use the main and alternative programs of imposition and prototyping on laboratory and practical works that promotes formation of professional skills. Therefore the maintenance of a course offered by us «Publishing systems» gives the chance to raise a professional standard of future engineers-teachers considerably.

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