

THE WEBSITE

«*Engineering Computer Center Vector*»



REFERENCE

At the 37th International IGIP Symposium the necessity of training of world level engineering personnel, who can fulfill the upgrowing demands of global economy, was emphasised. Only the tutors of new formation, who have deep professional knowledge, a good command of foreign language and are proficient in the art of teaching, can train not just the common executives, but the true specialists capable of setting and solving innovative problems.

While teaching, the lecturer should create a constructive team within a certain timetable, and to solve in conference not only educational tasks, but also the existing problems of the field, where the prospective specialist is expected to make his career. Therefore organization of the united automated educational system is a pressing problem.

Business success strongly depends on the website which represents the company. Therefore advanced Web-Design studies should come to the front. It is no coincidence that the training program of Engineering Computer Center Vector includes 72 hours for advanced Web-Design studies, which is three times the number of the hours for MS Word and MS Excel studies, and four and a half times the number of MS Power Point academic hours.

One of the primary goals of any company is providing proper advertising of its production. This is why studying MS Power Point should be in the lead. During my career in German design engineering bureaus I often heard the statement that nowadays MS Access should be chosen preferably while MS Excel should move to the sidetrack. I do not support this point of view. I believe that MS Access is more appropriate for financial, economical and cost analysis, while MS Excel is perfect for research and design efforts.

The main role in the website is given to COBRA computer-aided training organization system as well as to CAD and to 3D-Graphics.

The programs offered in COBRA computer-aided training organization system let one perform structural, kinematic and dynamic analysis as well as calculation of strength and machine detail drafting.

Modern engineering constructions contain vast nomenclature and enormous amount of assemblies, details, standard and bought articles. They are so complicated that nowadays it is virtually impossible to perform kinematic and strength calculations and to construct them using

outdate classical methods. Therefore three-dimensional computer drafting must be necessarily mastered.

Construction of mechanical systems with the help of Autodesk AutoCAD 2009 and COMPAS software not only permits to do 2D and 3D modelling, to create 2D and 3D objects with the possibility of their future editing, to manage the features of the objects, but also helps to avoid various construction faults. A number of recommendations can be carried out concerning the presented website.

I think that the ADS and 3D-graphics section should be supplemented with Mechanical Desktop software, which is useful for design and calculation in general engineering.

Observation shows that overwhelming majority of people who start computer courses have either greater or less experience of using a computer. Therefore I think that in a detailed MS Word course program not more than 4 academic hours should be given to text work, and the rest of time should be used for studying tables, graphs, diagrams, and, the most important, for creating drawings, illustrations and scheme.

As of MS Excel, here, besides graphs, tables and diagrams, the special attention should be paid to numerical analysis methods, and particularly to using this methods in approximate mechanism synthesis. In spite of the remarks stated, it is necessary to admit that the presented website «Engineering Computer Center Vector» deserves a completely positive score. COBRA computer-aided training organization system makes not a scientific interest only, but also has a practical role in the educational system. Computer programs, similar to those shown at the web site, can be used, for example, for computation and construction of thermal equipment and jet devices. The website gives a complete understanding of the computer course teaching program. The described COBRA computer-aided training organization system can be successfully used for organizing training process on the whole and technical studies specifically, not only in Russia but also abroad.

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