

DESIGNING A TRAINING PROGRAM OF ARCHITECTURAL DRAWING AND RENDERING USING AUTOCAD

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Abstract:

Developing architectural education to cope with information technology era and requirements of architectural employment market is considered main priority which could produce a qualified architect in the future. Effective uses of Computer-Aided Architectural Design (CAAD) is essential pillar of developing architectural educational methods and practice. AutoCad is considered the most popular among other software of architectural drawing and rendering in particular with versions 14, 2000, and 2002. Through teaching computer application courses the researcher has observed difficulties in processing a fixed course over all students because there are big gaps among them in computer skills. So the course should be flexible and hierarchical enough to maximize the profits of teaching such courses. This paper presents designing a training program of architectural drawing and rendering. The program is branched into three levels: Level I and Level II include two dimensional drawing and Level III includes three dimensional drawing and rendering. Each level includes teaching materials and methods, aiding tools, assignments, and projects which should be implemented by students before passing course. Through designing the program the researcher has benefited from different experiences such as educational experience in College of Architecture, Texas A&M University, Texas-USA, teaching experience in Department of Architecture, Faculty of Engineering,

Minia University, Minia-Egypt, and also a comprehensive review of literature of different kinds such as books, multi-media, and internet. Students scores before and after applying the training program are statistically tested and results are interpreted.