On the Design of Program and Curriculum for Biomedical Engineering to Support the Quality of Higher Education

Abstract:

Some estimate that what is happening now from the technological revolutions, scientific and medical than all that has happened in human history as a whole. The developments, especially the technological revolution, technical and entailed the development of instruments and equipment, medical diagnostic, therapeutic and restorative to the human body and the large number of patients, requires radical changes in treatment policies which led to the twinning of Engineering Sciences and Biomedical Sciences vantage about the so-called educational institutions university of Biomedical Engineering. The Biomedical Engineering of the most important requirements of the technical and human development, where a generation of graduate manpower as assistants to doctors and medical institutions, engineering and other labor market institutions. The design of programs of higher education specialty medical engineering vital to ensure the existence of an appropriate mechanism to provide the manpower of the output from this type of education required by the labor market, the level of decent, it is necessary and frequently, can only be achieved by examining all of the needs of the labor market disciplines Biomedical Engineering and the requirements of professional skills and study the effect of each on the education programs of Biomedical Engineering, as well as the current reflection on the training of students before and after graduation. In this study, the requirements of the labor market study of graduates of higher education specialization Biomedical Engineering to reach the extent of need for this type of graduates and thus open the Department of Biomedical Engineering. It is studied also design courses for specialization of Biomedical Engineering and its plan of study and emphasize the link between the content of this program on the one hand and the needs of the labor market of a strong human being, and that bridge the gap between the outputs of this type of education and labor market requirements as a requirement of the requirements of current and future development, and become outputs specialization of Biomedical Engineering is qualified and able to compete in the arena of the labor market in this day and age. As the foundation for a design specialization of Biomedical Engineering that is tailored to the requirements of the labor market and that meets the needs of technological progress and contributes significantly to support the quality of higher education.

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