DEVELOPMENT OF A VIRTUAL LABORATORY FOR STEM EDUCATION

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Abstract
The STEM (Science, Technology, Engineering, Mathematichs) education is an educational approach, which were associated with each other of different disciplines, covering the whole education process from pre-school to higher education of mathematich, science, technology and engineering, and combined with real world lessons of difficult academic concepts. Most STEM education has more cost than traditional classroom education. Because, STEM education is substantially based on laboratory education. Therefore, the development of virtual laboratories is of great importance in solving of this problem. In this study, it is introduced a virtual laboratory application that developed for benefit of students in secondary school chemistry course as well as of examination the virtual laboratory samples on the internet for STEM education.

Keywords: STEM Education, Virtual Laboratory, Remote Laboratory, Chemical Education.