主題文章

Engineering-oriented Features in Senior-high-school New Living Technology Curriculum

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There is a close relationship between technology and engineering. In Taiwan, the tentative senior-high-school Living Technology (LT) curriculum guide, going to take into effect in 2006 school year, was designed to strengthen students' technological literacy through the core course—Technology and Life. It also provided those students, who intended to go up for further education in fields of science, technology or engineering, pre-engineering education through the optional course—Technology and Engineering. The purpose of this paper was to explore the engineering-oriented technology education and how engineering department heads rate the technological literacy prescribed in the LT's core courses. Based on the exploration and the questionnaire survey findings obtained from 48 engineering department heads in universities, the following four conclusions were made: (1) Engineering-oriented technology education was increasingly promoted and the communication and collaboration between technology and engineering educators should be strengthened. (2) Most objectives and themes of technological literacy to be strengthened were highly rated by engineering department heads. (3) Both construction and transportation domains can be allocated less teaching hours. (4) Problem-solving and communication skills should be strengthened in the real-world curriculum and instruction.

Keywords: technological literacy, technology education, engineering education, curriculum guide

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