

New Teaching on the Introductory Course of Energy Science and Technology with Moodle

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Abstract

E-learning is a modern teaching method using computing technology. A lot of courses in every field are executed by e-learning. The education of energy science and technology is too. Many researches reveal the achievement that use e-learning to educate on the energy science and technology in Taiwan, but scarcely concentrate on higher education. The main purpose of this paper is to discuss student's thinking of training program by e-learning on introductory course of energy science and technology. The training program consists of eighteen weeks and allows students for self-study. It also can be helpful to traditional courses which take place at the university (in eighteen weeks semester cycle). During the courses, students execute a program based on e-learning. The program tries to make an interactive tool available to students through a website. Moodle is chosen as the Course Management System (CMS) due to its cooperative philosophy, open-source and free development model. Moodle is activated concurrently with presented courses to provide activities and template questions to increase students' profession in relevant subjects. An approach using social software to support e-learning is presented. The new paradigm on introductory course of energy science and technology can be fostered with the help of e-learning technologies, which take students' advantage of familiarity with computers.

Key words: Moodle; E-learning; Energy Science; Technology