CREATION OF ACTIVITIES ORIENTED TO PREFERENTIAL COMPLEMENTARY LEARNING STYLES. EXAMPLES OF COMPUTER SCIENCE

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Abstract

The application of a teaching methodology oriented to student’s learning styles based on collaborative work has been extended with the addition of specific tasks suited to each learning style. This methodology is based on the PCL (Preferential Complementary Learning) learning styles model, and therefore it will be called MPCL (Methodology based on the PCL). The most outstanding feature of this methodology is the teacher’s knowledge of each learning style and the preferential use of higher order thinking skills considered as style indicators. Previous research conducted during 2010-2011 and 2011-2012 academic courses, in different subjects of Computer Sciences Engineering Degree, have shown the efficiency of this MPCL in teaching-learning processes. The study herein describes the main ideas used to create specific activities oriented to PCL styles, developing a PCLC (PCL Cycle). In the current academic year (2012-2013), PCLC tasks are being used in a subject of Computer Sciences Engineering Degree, within the frame of an Educational Innovation Project. The results gathered in this initial phase are shown in this work. For the next academic year, 2013-2014, this project will be completed in order to further examine how the application of the MPCL, in conjunction with the used PCLC activities, improves the learning process.

Keywords: Preferential Complementary Learning, learning styles, activities oriented to learning styles, methodology based on learning styles, collaborative work.