SYNTHESIS OF CdS NANOPARTICLES IN HDTMAB/PROPANOL/WATER/N-DECANE MINIEMULSION SYSTEM

Eriawan Rismana\textsuperscript{a}, Hadi Nur\textsuperscript{b}, Salasiah Endud\textsuperscript{a}

\textsuperscript{a}Department of Chemistry, Faculty of Science, Universiti Teknologi Malaysia
\textsuperscript{b}Ibnu Sina Institute, Universiti Teknologi Malaysia

E-mail: awaneri@hotmail.com

Nanostructured CdS semiconductor nanoparticles are currently under intense investigation because of their enhanced photoreactivity and photocatalytic properties. This reason will be impacted to increase for development of several synthetic procedure to prepare and stabilize uniform nanoparticles. In this paper, we report a synthetic pathway to obtain CdS nanoparticles in HDTMAB/propanol/water/n-decane miniemulsion system. The CdS nanoparticles in miniemulsion at differences of $W_0 = [\text{water}]/[\text{surfactant}]$, $P_0 = [\text{propanol}]/[\text{surfactant}]$, and bulk concentration Cd\textsuperscript{2+} and S\textsuperscript{2-} have been characterized using UV – visible spectroscopy to investigated the influence of various parameters of the nanoparticles formation and stability in miniemulsion.

DEVELOPING AND EVALUATING THE EFFECTIVENESS OF USING COMPUTER ASSISTED LEARNING SOFTWARE IN TEACHING AND LEARNING SPORTS AND RECREATION EDUCATION CLASSES

Mohad Anizu Mohd Nor, Ahmad Muhaimin Mohamad

Department of Sosial Education, Faculty of Education
University Technology Malaysia,
Skudai, Johor

This educational study aims at developing and assessing the effectiveness of an interactive multimedia software based on educational pedagogical theories which is targeted towards the teaching of the physical education subject and sports by teachers or for self-study by students at the high school level. The methodology of teaching and software development design on the whole utilized the rapid prototyping design model with several additions in the initial and final stages of development. The additive stage was done to ensure the suitability of teaching through interactive multimedia software and the teaching through physical skills. On the other hand, the assessment of the effectiveness of the teaching through the software produced was carried out through quantitative and qualitative approaches where the quantitative approach was dominant. In order to obtain the bigger picture of the students’ actual software needs, the designer conducted different analyses at the initial stage of research and teaching development. Teachers’ involvement is taken into consideration in this teaching development by looking at their level of acceptance towards the teaching of sports activities through the