

Influence of Computer and Internet on Student's Attitude and Academic Achievements in Chemistry at Undergraduate Level in Federal College of Education (FCE) Kano, Nigeria

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Abstract : The study aimed to investigate the influence of computers and the internet on attitudes and academic achievements among undergraduate chemistry students. It also focused on examining gender differences. 120 students were selected, comprising 80 males and 40 females, and divided into three groups, experimental groups E1 and E2 and a control C group comprising 40 students each. The Chemistry Attitude Scale (CAS) and the Chemistry Achievement Test (CAT) were used to collect data. Two different CAT methods - ChemDraw and ChemSketch learning software were used and applied to E1 and E2, respectively, whereas C was taught by the traditional method. For the gender difference, two groups were formed: group 1 (G1) and Group 2 (G2), comprising 40 males and 40 females. Significant differences between C and both E1 and E2 were found. Furthermore, CAT in E1&E2 was significantly higher than C. The findings showed that Undergraduate chemistry students in FCE have a positive attitude toward the use of computers and the internet, and gender varies in opposite directions. It is recommended that schools should provide computers and internet facilities with a regular supply of electricity. This will enhance attitudes towards the use of computer and internet resources and improve academic achievement.

Keywords : chemdraw, chemsketch, attitude, academic achievement.

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