

# IDENTIFYING THE FACTORS RELATED TO THE ACHIEVEMENT IN CHEMISTRY AT G.C.E. ADVANCED LEVEL EXAMINATION IN KEGALLE DISTRICT

**K.R.W.M.V.K. Uduwela**

Postgraduate Institute of Science, University of Peradeniya, Peradeniya, Sri Lanka

The Science stream assumes a competitive and very important study stream among four subject streams in G.C.E. (A/L) examinations. Chemistry is taught in both science streams namely Physical science and Biological science. Chemistry is a subject that lesser number of students achieved good results in G.C.E. (A/L) examination over the past few years. Many factors are affecting the student achievement in G.C.E. (A/L) examination directly or indirectly. This study aims to find out the factors affect the Chemistry results in G.C.E. (A/L) examination of the students in Kegalle district.

The population of the study was included G.C.E. (A/L) students who studied Chemistry as a subject, teachers (including school and tuition) who taught them, and their parents. Schools where Chemistry is teaching as a subject for G.C.E. (A/L) classes were considered in the study and there were 26 such schools in the Kegalle district. Using random sampling method, ten schools out of above mentioned schools were selected for the study. Information related to chemistry learning and teachings in the schools were collected by administering questionnaires to students, teachers and parents. The information was triangulated in analyzing process and to compare variables in different groups, one way Analysis of variance (*ANOVA*) is used.

The results revealed that different factors affected including difficulty in mathematical calculation, difficulty of understanding subject matter, school attendance, experience in answering questions, involved in practical session and subject complexity for changes in G.C.E. (A/L) Chemistry results. Majority of effects can be overcome by organized methodical teaching learning process in the schools. The rest of the effects need to be further studied and implement sustainable teaching methods especially in complexity in Chemistry curriculum.