

A Study of the Impact of Project Method on Students' Science Achievement in Teaching Biology at the High School Level

Su Su Khine¹ and Nyein Thet Swe²

Abstract

The major purpose of this research was to study the impact of project method on students' achievement in Biology at the high school level. Project method is a hand-on, learning by doing in Biology. In this study, the posttest only control group design was used to compare between the students who are taught by project method and those who are not. By using a random sampling method, (120) students were chosen from No. 4 Basic Education High School, Sanchaung and No. 6, Basic Education High School, Insein in Yangon Region. After giving different treatments to each group, the students were administered by a posttest. From Grade Nine Biology Textbook, Chapter (V), A variety of living organisms including five sub-topics was selected as learning materials in this study. The independent sample *t*-test was used to analyze whether there were significant differences between the two groups. In both selected schools, the result of the posttest showed that the achievement of the students who were taught by project method was significantly higher than the students who were not. The results of No. 4 Basic Education High School, Sanchaung was ($t= 4.852$, $df= 58$, $MD= 6.43$, $p < .001$) and that of No. 6, Basic Education High School, Insein was ($t= 7.466$, $df= 58$, $MD= 7.83$, $p < .001$). The results show that there was a significant difference between the two groups. Moreover, project method achieved high performance in knowledge level, comprehension level and application level of the students in Biology. Thus, it is hoped that this study will partially support the improvement of teaching Biology.

1. Lecturer, Dr., Department of Methodology, Yangon University of Education

2. Senior Assistant Teacher, B. E. H. S (Anaut Bet Toe), Dedaye, Ayeyarwady Region