An Investigation into High School Students' Attitude towards Science, Technology, Engineering and Mathematics (STEM) Skills

Su Mon Aung[1] and May Thwe Oo[2]

Abstract

This study mainly aimed to investigate students' attitude towards Science, Technology, Engineering and Mathematics (STEM) skills at the high school level. The research design of this study was the survey research design. The participants were Grade 10 and Grade 11 students studying STEAMS 1 and STEAMS 2. The number of students was 496, involving 248 Grade 10 students and 248 Grade 11 students. These students were selected from 12 schools in Danuphyu Township by using two stage cluster sampling method. As the research instrument, the attitude questionnaire with five-point Likert scale was used. The internal consistency (Cronbach's Alpha) for the questionnaire was .760. According to the results of the descriptive statistics, students' attitude towards STEM skills was positive. Pearson product moment correlation coefficient was used to explore the relationship among students' attitude towards STEM skills. According to the results, there were significant intercorrelations among students' attitude towards STEM skills. Therefore, it is hoped that the findings of this study can contribute to some extent in promoting students' STEM skills in Myanmar.

Keywords: Science, Technology, Engineering, Mathematics, STEM Skills

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

2. Senior Assistant Teacher, Basic Education High School, Sagagyi, Danuphyu Township, Ayeyarwady Region