

# **The effect of training program in teaching planning according STEM in developing the scientific value of Science and mathematics and beliefs about STEM with the teachers**

Dr. Nasser Helmy Aly Youssef

Lecturer at Curricula and Methodology Dept.

Faculty of Education – Fayoum University

[nha02@fayoum.edu.eg](mailto:nha02@fayoum.edu.eg)

## **Abstract:**

The research aimed to study the effect of training program in teaching planning according STEM in developing the scientific value of science and mathematics and beliefs about STEM with the Teachers, To achieve this objective, the researcher prepared a training program in teaching planning according STEM Included training material for the trainee and trainer guide, and also he prepared a scientific value of science and mathematics scale, and a teachers' beliefs about STEM scale, the program and the two tools were showed to a group of jury members with the aim of judging.

The research used the experimental method using the pre-post design on one group. The research sample consisted of 25 of teachers (14 Mathematics, 11 Science) in Dammam.

The results of the research indicated the effectiveness of using the program in the development of the scientific value of science and mathematics and beliefs about STEM with the Teachers, and the results also indicated that there is a statistically significant positive relationship between the scientific value of science and mathematics and the beliefs about STEM.

Based on the results the researcher recommended that: the importance of preparing a training programs in STEM for the teachers, the importance of teachers' beliefs about STEM for preparing a training programs in STEM for them and make more researches in STEM training programs for the teachers.

**Keywords:** Training program, Teaching planning according STEM, scientific value of Science and mathematics, Teachers' beliefs about STEM.