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A Comparative Study of STEAM Activities and study behaviors among B.Ed. Trainees

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Abstract

Expansion of an educational system often results in dilution of quality and low levels of STEAM of children particularly in elementary schools, and specially so, if adequate measures are not taken to maintain the standards. STEAM (Science Technology Engineering, Arts and Maths Activities) has been referred to as the need for STEAM. The study is concluded only in state Gujarat. The study is delimited to of Grant-in-aid and Self-Financed B.Ed. Trainees of Gujarat. Present study is delimited for the students who are enrolled in studying during the year of 2018-2019 as well as the 160 B.Ed. Trainees were selected by using stratified random sampling technique. Female B.Ed. trainee were found significantly higher on the STEAM Activities than male, no any significant difference on STEAM Activities of behavioral and habitat found effective. Professionally well prepared and committed teachers can create an environment for joyful, activity-based and participatory learning, besides providing equal opportunity of success in learning attainments for every trainee. Such feature teachers could achieve it by establishing close rapport and understanding with every learner to meet his/her individual learning needs and to identify and provide remedial inputs with the future students.

Keywords: *STEAM (Science Technology Engineering, Arts and Maths)*

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desire4sureshparmar@gmail.com**1 INTRODUCTION**

Teachers are always expected to reach unattainable goals with inadequate tools. The miracle is that at times they accomplish this impossible task. From the conventional concept of mastery of the content and the inherent authority the objectives of preparing teachers for universal elementary education and expanded secondary education could focus on acquisition of competencies and nurturing of qualities of every individual teacher, befitting the emerging social scenario in India in which social justice and equity could apparently be the visible and desirable components of all the future social processes. Expansion of an educational system often results in dilution of quality and low levels of STEAM of children particularly in elementary schools, and specially so, if adequate measures are not taken to maintain the standards.

2 STEAM ACTIVITIES

STEAM (Science Technology Engineering, Arts and Maths) Activities has been referred to as the need for STEAM, a wish to do well. It refers to the behaviour of an individual who strives to accomplish something, to do his/her best to excel others in performance. This involves competition with a particular standard of the excellence of the performance. STEAM Activities is thus, a learned motive to complete and strive for success. Bernard Weiner (a student of Atkinson) and his colleagues have examined extensively the relationship between attributions and creativity (Weiner, 1979, 1985). According to their model we often ask ourselves in creativity situation why we have done as well or as poorly as we have. The answer to this question then determines how we feel about the performance and what we will do in similar situations in the future. There are many ways to analyse the kinds and attributions people give for their performances, (1) STEAM Motive is a drive which can be aroused by inducing a situation of 'ego-involvement' of STEAM-orientation. This situation produces the same kind of effect on the subject's projection as in the case of manipulation in hunger and sex deprivation.

(2) STEAM Motive varies from person to person group to group and is open to culture influences. STEAM Activities may be acquired through social and culture milieu and training programmes.

3 STATEMENT OF THE PROBLEM:

The statement of problem of the present study is

"A Comparative Study of STEAM Activities and study behaviors among B.Ed. Trainees"

4 OBJECTIVES OF THE STUDY

1. To construct and standardize of tools for STEAM Activities and study behaviors of B.Ed. Trainees.
2. To study the effectiveness of STEAM Activities of B.Ed. Trainees with reference variable of gender behavioral.
3. To study the effectiveness of Study Behaviors of B.Ed. Trainees with reference variable of gender behavioral.
4. To compare the correlation of STEAM Activities and study behaviors of B.Ed. Trainees with the STEAM.

5 OPERATIONAL DEFINITIONS OF THE TERMS USED

The operational definitions of the key words are given below:

- **STEAM Activities:** A drive to excel in learning tasks and the capacity to experience pride in accomplishment.
- **Study Behavior:** The behavior of person in academics like reading books, magazines, newspaper etc.
- **B.Ed. Trainee:** Persons who teaches and preaches regarding what is right, what is wrong and why it is right and why it is wrong. In present study, the persons who are B.Ed. Trainee.
- **Male:** A man or a boy.
- **Female:** A woman or a girl.
- **Rural:** Rural area
- **Urban:** Urban area

6 RATIONALE OF THE STUDY

In a world shrinking fast into a global village characterized by knowledge, technology and industries taking off at top speed and information highways opening up new vistas of prospects, the profile of the teacher would be quite different. Education is increasingly being perceived as a stake of crucial significance, capable of modifying the economic scenario and transforming the dream of millions of human beings for a better and higher quality of life into a reality. Critical attention is being paid to the relevance of a variety of important aspects like the quality of education imparted in schools, the learning environment, the school-community relationship and the professional preparedness of teachers.

7 HYPOTHESES

1. There will be no significant difference on STEAM Activities of male and female B.Ed. Trainees.
2. There will be no significant difference on STEAM Activities of rural and urban B.Ed. Trainees.

8 DELIMITATIONS OF THE STUDY

The study is concluded only in state Gujarat. The study is delimited to of Grant-in-aid and Self-Financed B.Ed. Trainees of Gujarat. Present study is delimited for the students who are enrolled in studying during the year of 2018-2019 as well as the B.Ed. Trainees.

9 RESEARCH METHOD:

Looking to the nature of the present research work, the researcher has employed Descriptive survey method to meet the objectives of the present research problem. Besides descriptive survey method the case study method has also been employed since the study dealt with the educational STEAM Activities and study behaviors of students of B.Ed. from Gujarat State.

10 POPULATION OF THE STUDY:

In the present research study population is comprised of the B.Ed. Trainees which has been chosen as a case for investigation.

11 SAMPLE OF THE STUDY:

The sample of the present study will be consisted of B.Ed. Trainee from B.Ed. Trainees of Gujarat State; B.Ed. Trainee from the B.Ed. Trainees of north Gujarat, 160

B.Ed. trainees were selected by using stratified random sampling technique during the year of 2018.

12 INSTRUMENTATION:

For the present research study the investigators will be constructed two different scales to measure STEAM Activities and study behaviors among the B.Ed. Trainees are mentioned as under:

- STEAM Activities among the B.Ed. Trainee and
- Study behaviors among the B.Ed. Trainee
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13 PROCEDURE OF DATA COLLECTION

The data were collected from the respondents on the various variables under study. The B.Ed. Trainees were visited and decided in the initial sampling, and then a written permission was sought out from the respective Principals after discussing the purpose of the present study. The tests were administered in group. Collection and Tabulation of Data of the present study were collected from B.Ed. Trainees, after scoring the collected data, the researcher conducted tabulation and statistical calculation.

14 STATISTICAL TECHNIQUES

In research work after organization and tabulation of data, statistical calculations are made to visualize the performance and effect of different variables. In the present research work, statistical formulas like mean, standard deviation, t-values were used.

15. Findings of the study

Tabulation and analysis of Data of the present study after scoring the collected data it can be noted that female B.Ed. trainee were found significantly higher than the STEAM Activities than male, no any significant difference on STEAM Activities of behavioral and habitat found effective. Professionally well prepared and committed teachers can create an environment for joyful, activity-based and participatory learning, besides providing equal opportunity of success in learning attainments for every trainee. Such feature teachers could achieve it by establishing close rapport and understanding with every learner to meet his/her individual learning needs and to identify and provide remedial inputs with the future students.

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