



**DEVELOPMENT OF TRAINING PROGRAMME FOR B.Ed.
STUDENTS TO USE CONSTRUCTIVIST TECHNIQUES (Graphic
Organizers) IN TEACHING OF HISTORY AND TO TEST ITS
EFFECTIVENESS**

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Abstract

Today the concept of education has changed from teacher centered to student centered; more importance is given to the overall development of the child. In this scenario of education constructivist approach plays very important role.

National curriculum Framework (NCF) 2000 and 2005 by NCERT is developed by using constructivist approach. Constructivism is basically a theory based on observations and scientific study about how people learn.

There are many constructivist techniques among them Graphic organizers are very useful in science method.

This research paper mainly focuses on development of training programme for student teachers having history method. Experimental method is used for present study.

Graphic organizers prove to be an effective tool to reach all the students in a classroom. It can be used as tool to create an interest among the students. It helps the students to organize the material and also proves to be an effective tool while putting down answers in the papers and thus helps them to score more. It can be used to all ages and all levels including primary, secondary, higher secondary, and collage level also. It proves to be an effective tool for bringing about active learning by the students in the classroom.

Introduction:

The modern concept of Education is student centered in this system different teaching methods are used. These methods are used according to the needs of the students so the teaching learning process becomes more effective. Some developed countries made changes in their curriculum according to the needs of the students. Few countries like India still have a teacher center education system. Crowded classes, dropouts, stagnation, enrollment problem due to these problems this teacher centered education system is failed to achieve its goal. For changing this situation, in teachers training colleges' proper training should be given to the students teachers and constructive approach will definitely play an important role because this approach is based on students centered education system.

National Curriculum Frame work (NCF) 2000 and 2005 by NCERT is developed by using constructive approach. Constructivism is basically a theory based on observation and scientific study about how people learn. It says that people construct their own understanding and knowledge of the world through experiencing things and reflecting on those experiences.

When we encounter something new, we have to reconcile it with our previous ideas and experience may be changing what we believe or maybe questions, explore and asses what we know.

There are different types of constructivist Techniques like Models of Teaching co-operative and collaborative learning, Graphic Organizers are one of them.

History is systematic and organized study. It includes classifying, categorizing, cause and effect, different procedure etc. that needs to be presented in a simpler and easier manner by the teacher. Graphic Organizers prove to be an aid that will help the teacher as well as the students to better understand the concept.

Graphic organizers are visual representations of a text or a topic. They help to organize information. They help us to understand how things go with together. They help students generate mental images to go with information and create graphic representations for the information. Appropriate organizers help students for relationship between previously acquired knowledge and new concepts.

Dual coding theory maintains that we code information (e.g. nonverbal as well as verbal can be addressed through the use of graphic organizers) information is easier to retain and recall.

Graphic organizers match the mind. It has been provided by David P. Ausubel that mind arrange and store information in orderly fashion. New information about a concept is filled into an existing framework of categories.

Schema theory explains that within our memory exist schemas or network of information. The use of graphic organizers can help students link the existing knowledge organized in schemas to new knowledge.

Cognitive load theory suggests that working memory has a maximum capacity of information it can process. If that load is exceeded learning does not take place. Graphic organizers, if used appropriately can help to reduce the cognitive load and consequently enable more resources (working memory) to be devoted to learning new material.

❖ **Different kinds of Organizers:-**

- i. Cluster Diagrams
- ii. Charts
- iii. Venn Diagram
- iv. Story Maps
- v. Cause & Effects Diagrams
- vi. Outline
- vii. Timelines

❖ **Need:-**

- Graphic organizers prove to be helpful tool for effective teaching in a classroom with different types of learners.
- There are few learners who can remember concepts will if they are shown some graphical presentation of the concepts along with spoken words.
- It helps in reducing the difficulties experienced by the students with mild learning disability.
- It proves to be helpful for gifted and talented students by generating mental images to go along with information that leads to retention for a longer period of time.

❖ **Importance:-**

- The use of Graphical Organizers will help in improving performance of the students in history subject.

- It focuses on the relationship of information as opposed to memorization of isolated facts.
- The use of graphic organizers can generate excitement and enthusiasm towards learning.
- It can be used for visual learner, for all students ranking from gifted & talented to those with mild cognitive disabilities.

❖ **Operational Definitions:-**

• **Training programme:**

A special teaching methodology which makes the teaching learning process more effective than the traditional method.

• **B.Ed. students :-**

After graduation those who are taking teacher training for going into teaching profession.

• **Constructive approach / techniques:**

Constructive approach means teaching by using the strategies based on the theory of constructivism which assumes that learners activity take knowledge depending on their previous experiences and make it their own by incorporating into their previous cognitive structure.

This approach will be used by the researcher for teaching science method.

- **History method**-one of the school subjects which is taught from 3rd to 10th standard.
- **Graphical Organization**:-A graphic organizer is a visual learning tool that helps students & teaching to organize their thought either alone or in a group.

In the present research the basic six types of graphic organize are used.

❖ **Objectives:-**

- To find out the existing teaching techniques used by the teacher Educators in B. Ed colleges for teaching science method.
- To develop / design training programme based on constructivist techniques.
- To implement the developed training programme and to see its effectiveness.

❖ **Hypothesis:-**

Research hypothesis

There is a positive impact of training programme based on constructivist technique.

Null Hypothesis:-

There will be no significant difference in the mean score of pre-test and post-test.

❖ **Assumptions:-**

Student teacher lacking in logical thinking are not be able to use graphic organizers.

Graphic organizer helps the student teacher of history to present the difficult task into a simple and organized manner.

Student teachers learn history as one of their teaching method.

It is possible to develop a training programme based on constructivist techniques to teach the history subject more effectively.

❖ **Scope:**

- All B. Ed. Students selected for this study.
- The subject concerned is history.
- Training of constructivist techniques will be given to pre service teachers.

❖ **Limitations:**

- There is no control on attitude, readiness of the student teacher.
- Only one college of education is selected for the study.
- The sample is concerned in the research i.e. 30 students of history method.
- The college which is selected for the present study is affiliated to University of Pune.
- The research work is related to the history method.

❖ **Delimitations:-**

- The training programme on graphic organizers is limited to 30 student teachers with history method.
- Only 6 types of graphic organizers are considered for preparing the training programme.

❖ **Method of the study:**

The research work was carried out with help of **Experimental method**.

Single Group pre-test, post-test design.

❖ **Population**

Population consisted of all students of B. Ed. College (with history method)

Sample and Method of Sampling:

There are three grantable colleges in Pune city.

From all these colleges **Tilak College of Education** will be selected.

Out of 160 students with different methods 30 students having history method was selected.

- **Purposive Method** of Sampling was used by the researcher.

❖ **Tools for data collection:**

- Per-test
- Post-test

❖ **Tools for statistical analysis:**

- Mean
- Standard deviation
- t test

❖ **Findings of the studies:-**

- The training programme proved to be helpful in bringing about awareness about graphic organizers among the students,
- Graphic organizers introduced through training programme are helpful in history method.
- Graphic organizers prove to be an effective tool in the representation of the given content.

❖ **Suggestions and recommendations further study for:-**

- Research can be carried out to see the impact of training programme to the higher secondary students.
- Research can be carried out to see the impact of training programme on the student teachers with different methods.
- Research can be carried out to find out how graphic organizers prove to be helpful in students' evaluations.
- Research can be carried out to find out how graphic organizers be used by students for better presentation in the papers

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