

Executive summary- UGC sponsored Minor Research Project

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Title: A study of effectiveness of Wiki to develop Std VII Science Digital Flexbook by Student Teachers

Objectives:

- To develop a Std. VII Science Digital Flexbook
- To study the effectiveness of Wiki as a collaborative learning tool to develop Std. VII Science Digital Flexbook by student teachers
- To study the opinion of student teachers about use of Wiki as a collaborative learning tool to develop Std. VII Science Digital Flexbook by student teachers

Methodology: The researchers used the Experimental method for the study. The One Group Pretest- Posttest design under the category of Pre-experimental design was used. The sample was thirty-four student teachers selected using purposive sampling technique. The tools used were achievement test in theory of Std. VII Science Content and the Collaborative learning tool

Findings:

The findings of the dependent t test indicate a significant difference between the mean scores of the pre and post achievement test in the theory of Std. VII Science content. Thus the use of Wiki for developing Std. VII Digital Flexbook was found effective in achieving mastery in the Std. VII Science Content.

With respect to opinion of student teachers about use of Wiki as a collaborative learning tool findings reveal that 100% of the student teachers display favorable opinion with respect to the following:

- Getting more ideas when working with peers using Wiki
- Feeling associated while working with peers collaboratively using Wiki
- Enjoy working on such collaborative ventures using Wiki in future
- Collaborative approach using Wiki helped in learning the content of Science

With respect to opinion of student teachers about advantages of Collaborative learning approach that exist when working on Digital Flexbook using Wiki student teachers expressed the following:

- There is flexibility with respect selecting the source of content

- It provides lot of learning experiences for the Science content
- Students gain a good amount of content knowledge
- It results in better learning as understanding of the concept happens since one tends to be careful writing the content as it would be read by someone else
- It is an interesting way of learning content wherein all share their knowledge and learning becomes easier
- One gets detailed knowledge of content at one place and can read up additional content as links are provided
- It is a great opportunity to collaborate and learn from each other.

With respect to opinion of student teachers about disadvantages of Collaborative learning approach that exist when working on Digital Flexbook using Wiki student teachers expressed the following:

- Since somebody can edit the content added, which becomes a source of anxiety for the person adding the content
- It results in confusion with respect to understanding the standard content
- There are chances of merely copying the content and adding it to the wikipage