Impact of ICT Pedagogical Practices of B.Ed. Student-Teachers on Learning Outcomes

Kalpana. K[*] and B.C. Kumawat[**]
Assistant Professor, DE, RIE, Ajmer[*]
WET, Computer science, DE, RIE, Ajmer[**]
****Email:**bckumawatwet@gmail.com

Abstract- *It is a known fact that every field is touched by ICT. The use of ICT is rapidly increasing in our Indian society viz, Business, Hospital, Shopping mall. The reason behind its development is none other than the Education. Our Indian educational system has implemented ICT in every standard of learning to know the basics of computer and use the concept of E-learning. E-learning resource is a global network where learning could be done in online and offline and it is considered as a solution for a problem of delivering the resources required and to facilitate the lifelong learning and we believe that sometimes learning outcomes focus on the results of learning experiences where the teacher and the students get an opportunity of using various methods and techniques by different applications available on the internet.*

Keywords: E-Learning, Education, Learning Outcomes, ICT

Introduction- Technology can increase student independence and create classrooms that support the diverse learning needs of all students. Earlier the teaching learning process was done by teacher-centered delivery of instruction to classes of students who are the receivers of information moreover the students were less interested to learn. Therefore recently, technologies were introduced to identify the learning outcomes then and there, what the learner will know and be able to do by the end of a course or program. ICT allows people and organisations to communicate and share information digitally. It is a diverse set of technological tools and resources used to communicate, create, disseminate, store and manage information. This paper focuses on the following aspects that the researcher tried to explore Impact of ICT pedagogical practices of B.Ed. Student Teachers on learning outcomes.

1. Mind Mapping tools

Source:https://commons.wikimedia.org/wiki/File:Free_Mind.png

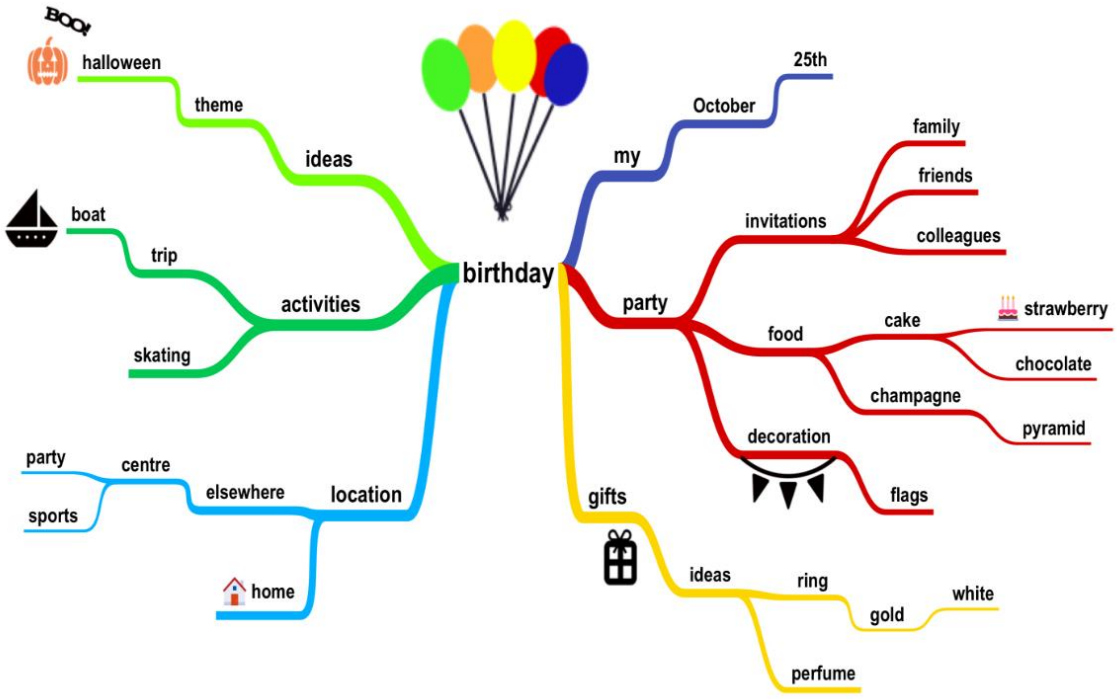
Mind mapping tools are written in Java. It runs on Microsoft Windows, Linux and mac OS. Mind mapping tools allows the user to edit a hierarchical set of ideas around a central concept.

Features

- Folding branches
- Save files as XML—in mm file format
- Export hypertext to HTML and XHTML
- Export document to PDF and Open Document
- Exports image to PNG, JPEG and SVG
- Icons on nodes
- Clouds around branches
- Graphical links connecting nodes
- Search restricted to single branches
- Web and file hyperlinks from nodes
- Transform maps using XSLT
- **Source**: https://en.wikipedia.org/wiki/FreeMind

Software's:

[1] Free mind
[2] Free plane



Source: https://simplemind.eu/how-to-mind-map/basics/

2. H5P

It is a free and open-source content collaboration framework based on JavaScript. H5P is an abbreviation for HTML5 Package, and aims to make it easy for everyone to create, share and reuse interactive HTML5 content like Interactive videos, interactive presentations, quizzes, interactive timelines and more.

Source: https://h5p.org/

Features

The following H5P content types may be added to your video:

- Multiple choice questions with one or more correct answers
- Fill in the blank questions
- Drag and drop questions
- Interactive summaries
- Single choice question sets
- Mark the word activities
- Drag and drop text
- Images
- Tables
- Labels
- Texts
- Links

Research Questions

- What kind of Software will be used by B.Ed. student teacher for teaching learning process?
- Which ICT tools are required for accessing the learning outcomes?

Objectives

- To study the use of mind mapping tools for teaching learning process by B.Ed. student teachers.
- To find out the practice of H5P assessment tool to achieving learning outcomes.

Methodology

The investigator adopted descriptive survey method and Random sampling technique were used.

Population

The total population of the study were 86 B.Ed. First year students of Regional Institute of Education, Ajmer.

Sample

The 20 % (Total: 18) of B.Ed. First year students of Regional Institute of Education, Ajmer were taken as a sample.

Data Collection

The investigator collected data from Pre-service B.Ed. first year student teacher of RIE Ajmer during the academic year 2018-19.

Tools of the study

The instrument used to collect data with Focus Grouped discussion

Data Analysis

The data were analysed by using content analysis.

Major Findings of the study

- Majority of the student teacher responded that mind mapping tool used in teaching learning process was very effective.
- Very few student teachers prepared lesson plans with graphical representation.
- It helps the student teacher to think, collect knowledge, remember and create ideas for planning the lessons.
- It is used for association, connection and imagination using keywords.
- H5P.Org is used for as an assessing tool which is completely free and open technology.
- Student _teacher used this tool for conducting quiz and interactive presentations for their lesson.

Educational Implications of the present study

- It enhances scope of education by facilitating ICT learning and teaching.
- It provides the misconceptions and the level of understanding of the students.
- This assessing tools used to engage students and provide enhanced feedback before, during, and after a daily lesson.

Delimilations

- The present study was conducted for B.Ed. first year students alone.
- The study has been done in RIE Ajmer only. similarly study can be done in different districts in Rajasthan.
- The study was conducted with the sample of 18 students. The same can be done with the larger samples.

References

https://commons.wikimedia.org/wiki/File:Free_Mind.png

https://h5p.org/

https://simplemind.eu/how-to-mind-map/basics/

https://en.wikipedia.org/wiki/H5P