

THEORETICAL STUDIES OF EDUCATIONAL RESOURCES IN TEACHING-LEARNING

Dr. Anilkumar G. Kachhia ¹, Dr. Yogeshkumar R. Parmar ²

¹ Dr. Anilkumar G. Kachhia Principal, Smt. S. I. Patel Ipcowala College of Education,
, Gujarat, India

² Dr. Yogeshkumar R. Parmar Asso. Professor, Smt. S. I. Patel Ipcowala College of Education,
, Gujarat, India

ABSTRACT

Educational Technology is the application of scientific knowledge about learning and the conditions of learning, to improve the effectiveness and efficiency of teaching and learning and training. In the absorbance of scientifically established principles, educational technology implements, techniques of empirical testing, to improve the learning situations

Keyword: - Educational resources, Educational Software, E- learning/Teaching

1. INTRODUCTION

In iniquity, education should be given by lecture or discussion method. In 2nd verse of first educational chapter of तेतिरियोपनिषद sage's philosophy is that आचार्य पूर्वरूपम् । अंतेवासी उत्तररूपम् । विद्या संधिः। प्रवचनम् संधानम् । इत्यधिविधि विद्यम् । It means guru is preacher and disciple is follower, association of both gain knowledge, and lecture is a tool. This is the statement of knowledge. In it discussion, Guru and disciple through Question answer and Guru is solving the doubts of disciple. In Shrimad Bhagwd Geeta, Shri Krishna states that तद्विद्धि प्रणिपाते परिप्रेन सेक्या means that Disciple should cover every aspects in his question or action or with the service to learn. This method we can see in our present classroom as a lecture method.

By the age of ancient time, abstract concepts can be taught by an examples method. examples given in Chandogyapnishad's 6th chapter's 89 to 92 versa father 'Aaruni' order his son 'Shwetketu' to collect honey by honeybees from one tree to another's example, another example is the fruits of banayan tree's devided in pieces and given information about mcro cells of that tree and have capacity to create new huge another tree, another example given by him that the salt melted in water with all his character but then not be divided. This is the method of explain. Thus, from ancient age different tools and example can be used as educational tools.

2. NATURE OF EDUCATIONAL TECHNOLOGY:

'Educational Technology' is a combination of education & Technology. We know that education is a process of creating knowledge, training and positive nature which is useful to person, society and the future of world. The result of one or more researches converts into development of area of thinking. That leads to simplicity and effectiveness of process.

Whichever field or process connect with technology the process becomes more effective, universal and approximately comparatively law costly. Thus, education technology means the use of technology in education process. But the main point to be noted here, that educational technology is not day the combination of two word.

The word educational Technology first used in 1967 by Brin Mere John's report. Britain's Council of Educational Technology mention the definition of education technology as –

“Educational Technology is the development of experiment of and evaluation of education system, technologies and supplementary tools for reform and develops of human education process”

U.K.'s Council of Education Technology (CET) gives the definition of educational Technology as

“Educational Technology is the development, application and evaluation of systems, techniques and aids to improve the process of human learning.”

Thus, reformation of one's education process for use system, techniques, development of tools and its evaluation is technology.

National centre for programmed learning by united State given the definition of Educational Technology as “Educational Technology is the application of scientific knowledge about learning and the conditions of learning, to improve the effectiveness and efficiency of teaching and learning and training. In the absorbance of scientifically established principles, educational technology implements, techniques of empirical testing, to improve the learning situations.”

Association for educational and Technology U.S.A has given definition as “Educational Technology is a complex, integrated, process involved people, procedures, ideas, devices and organization for analyzing problems and devising, implementing, evaluating and managing solutions to those problems, involved in all aspects of learning.”

We comes to know through above definition that aim/goal of education technology is to practical implementation of knowledge. In educational technology field of sciences tools and medium of that tools, psychology, sociology, engineering and physics teaching research their goal through technology.

The aim fundamental principles is to keep in mind the necessary needs of teaching – learning in educational technology, because learning and skills of teaching and techniques of it deeply connected in it. Aim of arrangement of educational technology is to make different method tools more effective and simple in teaching learning process.

2.1 Computer Multi – Media Software Technology

We all accepted that education work done with multimedia is more effective than the teacher use only chalk and talk method.

We are using audio – visual tools (Charts, maps, tables, model, samples and audio – video cassettes) freely in our classroom as multi media. We can use all above audio – visual tools together in computer. We can programmed chart, map, tables, models and audio – visual work in computer. Many types of different computer software are available to create such computer programmers. By using that software we can easily programming all needful material.

Thus, computerized different units of different subject and using it as an educational tools in classroom it converts into an educational software of computer software.

2.2 Types of Educational Software

Types of Educational Software's are given below. Software that-\

- 1 Contains only text
- 2 Software that contain audio with text
- 3 Animated software (audio - video)
- 4 To understand the types above mention

4.1.1 Software That Contains Only Text

One can develop programme based only on written text by using this types of software. If one want to show a chart, tables and maps with this written into text then MS – Word, MS – Excel, Power – Point, Paint Brush, Corel Draw are useful software.

4.1.2 Software that contains audio with text

One can also put audio to make students understanding more easily with subject's talk. One can add wave file for this programme. Power point has special facility for this types of software. By using this one can make this programmes. In additional one can make wave field by using multimedia software also. One can also use sound editor and graphic software to make this type of programme.

4.1.3 Animated Software

One can make any types of model with this software, means like a film one can show any incident, reality and principle of science lively and understandable like, different position of moon, solar eclipse, lunar eclipse, earthquake and many matter and subjects can be think.

4.1.4 Merits of Computer Multimedia software

- Real and near experience can be provided by combination of audio – visual and animated components in computer software. One can get real experience of that phenomenon (ancient).
- It is the positive side of computer software that audio – video experience and text can be show in one screen.
- Control and speed of demonstration can be brought in this type of software and repeat related incident.
- By that one can motivate and immerge excitement among students.
- It is positive aspect to concentration among students.
- If learners can operate software their selves then aim of activity based teaching can be meaningful.
- Student's attitude can be changed and thus students expected behavioural change can be brought.
- Those, which can't be presented by any other media in classroom that can be easily presented to students with the help of computer software.
- Students can be completely clear about concept.

4.1.5 Limitations of computer media software

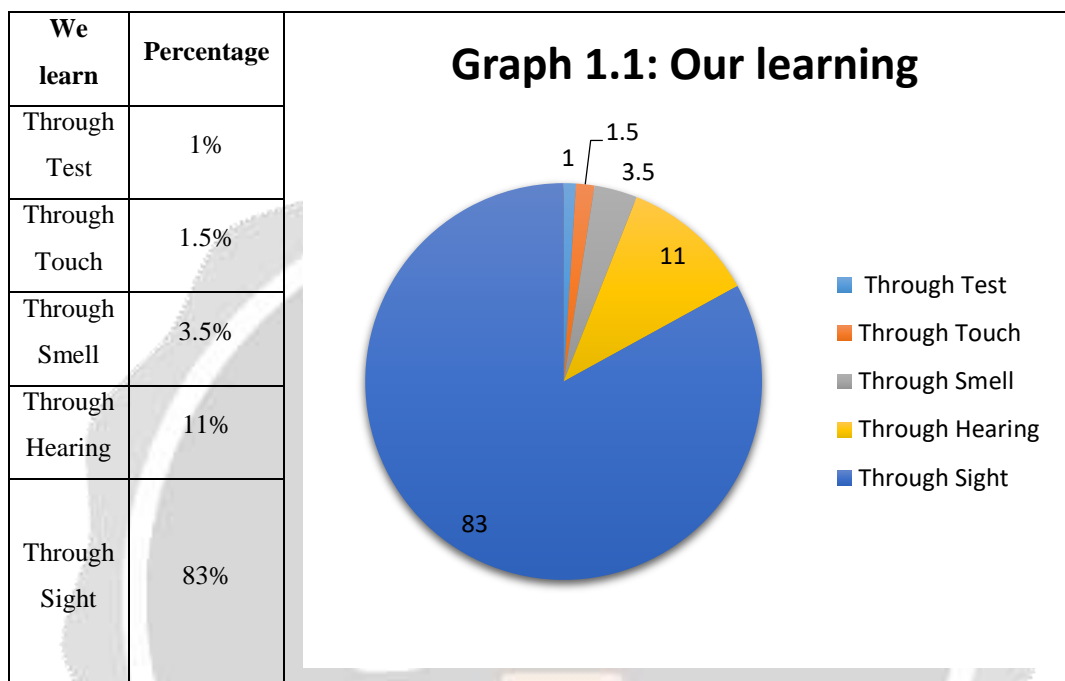
- It can be used by computer exert. It is preferable to have equipment arrangement the classroom.
- This type of equipments is costly.
- Some programme can be purchased by market which is very costly.
- Arrangement of computer is basic thing for manage this type of programme.
- It is costly and time consuming to create animated programme.
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3. CONCLUSION

Today's teacher is working in the era of science and technology. Development in science and technology have made teacher avail various audio-visual mode of study materials. Selection of proper teaching material is important for

academic excellence. Usage of teaching material is vital to make education more strong, attractive and interesting. According to the research done in developing countries; proper use of audio-visual teaching material has shown 70% to 80% progress in students. Research in developed countries reveals that given below is the response of our senses towards learning:

- Table 1.1: Learning through senses



- Viewing above bifurcation in chart form:

Above stated results clearly show the importance of audio-visual aids in teaching. Today, science and technology has gifted us various teaching-learning methods and devices via appliance appropriation. Among these methods and devices "Education via technology" is one of the effective communication platforms

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