

ICT need for Teacher Educator for effective Teaching and learning

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Abstract

This paper attempt to the successfully teaching through technology and what is need for know about technology to teacher community. Today's computer-based technologies offer powerful new ways to provide students with direct experience in the classroom curriculum. Teacher problem was identified for the purpose of reducing their difficulties. Changing the way of teaching and learning is to increase the teacher educator and learner involvement. Main objectives to study the status of teaching effective with technology to teacher educator. To identify the need of teaching technology to teacher. To suggest suitable measures to technology of teaching effective. Primary data was main tool for this study. Hence the research used convenient random sampling method was used for collecting sampled data. There are 50 respondent from teacher educator

have been selected for this study. In this paper discussed several issues and difficulties about teacher educator for efficient teaching with technology. Refers to the policies and procedures designed to equip prospective teachers with the knowledge, attitudes, behaviors and skills they require to perform their tasks effectively in the classroom, school and wider community.

Keywords: - Technology, Teacher, Teaching, Knowledge,

Introduction

Educational systems around the world are under increasing pressure to use the new information and communication technologies (ICTs) to teach students the knowledge and skills they need in the 21st century. Today's computer-based

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technologies offer powerful new ways to provide students with direct experience in the classroom curriculum. The study of educational technology prepares individuals by helping them acquire a deeper understanding and mastery of learning resources: messages, people, materials, devices, techniques and settings, processes for analyzing and devising solutions to those problems through research, theory, design, production, evaluation, utilization, the processes involved in organization and personnel management. The focus is on effective processes to facilitate learning using technologies and understanding the impacts of technology on learners and organizations. In 1998 UNESCO World Education Report, Teachers and Teaching in a Changing World, describes the thorough implications the new information and communication technologies have for conventional teaching and learning. It predicts the transformation of the teaching-learning process and the way teachers and learners gain access to knowledge and information.

Methodology

Scope of the Study

This study helps to know about the successfully teaching with technology and what extend the teacher educator understand about the Information Communication Technology. Teacher problem was identified for the purpose of reducing their difficulties. Changing the way of teaching and learning is to increase the teacher educator and learner involvement.

Objectives

1. To study the level of understanding about ICT among the Teacher Educator.
2. To identify the problems faced by the Teacher Educators with regard to ICT.
3. To suggest suitable solution for the Teacher Educator to learn about the Information Communication Technology.

Hypothesis

1. Most of the Teacher Educator accepted that the ICT influence the learners for good attention and better

understanding. But

2. Most of the Teacher Educators are not using the ICT for their teaching because they are not having adequate knowledge about Information Communication Technology.

Tool for the data collection

Primary data was main tool, like participatory scientific observation and questioner technique was followed to the teacher educator of the respondents. Questioner was used as the tool for data collection from the respondents. Secondary data was collected from Books, Journals and Internet sources

etc., the data analyzed the simple percentage method was used for analysis.

Sample size

Convenient random sampling method was used for collecting sampled data. There are 50 respondent from teacher educator have been selected for this study in Dindigul district

Area of the study

The study take hold of the following sections under what situation the respondents are learning and what condition is prevailing in the knowledge about technology.

Table – 1 Personal detail of the respondents

| S. No | Characteristics | No of the respondents | Percentage |
|-------|-----------------------|-----------------------|------------|
| 1 | Age | | |
| | 18-25 | 31 | 62 |
| | 26-30 | 17 | 34 |
| | Above 31 | 02 | 04 |
| 2 | Marital status | | |
| | Married | 30 | 60 |
| | Unmarried | 20 | 40 |
| 3 | Gender | | |
| | Male | 13 | 26 |
| | Female | 37 | 74 |

From the above table, it is clearly stated that, 62 percent of the respondents belonged to the age group of 18 – 25

years.34 percent belonged to 26 -30 years, 04 percent belonged above 31 years.

The respondents were asked about their marital status, 60 percent of the respondents had got married and 40 percent of the respondents are unmarried.

26 percent of the respondents have male. 74 percent of the respondents have female.

Table - 2: Teachers Need to Know About Technology

| S. No | Characteristics | No. of the Respondents | | | |
|-------|---|------------------------|-------|----|-----|
| | | Yes | | No | |
| 1 | Are you interesting in Information Communication Technology (ICT)? | 50 | 100 % | 0 | 0 |
| 2 | Do you agree ICT based teaching gives more understanding to the students? | 50 | 100% | 0 | 0 |
| 3 | Are you using tutorial CD for your teaching and learning? | 26 | 52% | 24 | 48% |
| 4 | Do you know about the smart class room concept | 50 | 100% | 0 | 0 |
| 5 | Are you practice video conferencing (Skype) for your teaching? | 10 | 20% | 40 | 80% |

From the above table, it's evidently stated that, 100 percent of the respondents interesting of Information Communication Technology (ICT) for teaching and learning purpose.

The respondents were enquired about the ICT based teaching gives more understanding to the students. 100

percent respondents agree with the statement.

52 percentage of the respondents were said that using tutorial CD for teaching and learning purpose. Rest of them that means 48 percentage of the respondent do not using the tutorial CD for teaching and learning purpose

The respondents were enquired about smart class room concept 100 percent of the respondents reported know about smart class room concept.

The respondents were enquired about video conferencing – Skype. 20 respondent only know that Skype of video conference program. Reaming 80 percent of the respondents reported don't know about that.

Table - 3

| S.No | Particulars | No of the Respondent | | | |
|------|--|----------------------|------------|----|------------|
| | | Yes | | No | |
| 1 | Do you know ICT | | | | |
| | Internet browsing | 38 | 76% | 12 | 24% |
| | Downloading web resources | 20 | 40% | 30 | 60% |
| | Preparation of Power point | 28 | 56% | 22 | 44% |
| 2 | Distribution of the feel difficulties about operating for ICT equipments | | | | |
| | Installation | 38 | 76% | 12 | 24% |
| | Operational technique | 20 | 40% | 30 | 60% |
| 3 | Distribution of the using web resources for teaching and learning | | | | |
| | Slides | 30 | 60% | 20 | 40% |
| | E- Journal | 12 | 24% | 38 | 76% |
| | Videos | 24 | 48% | 26 | 52% |
| 4 | Distribution of their need of periodical training on ICT based Teaching & Equipment operation | | | | |
| | Workshop | 14 | 28% | 36 | 76% |
| | Technical training | 28 | 56% | 22 | 40% |
| | Not necessary | 4 | 8% | 46 | 92% |
| 5 | Distribution for their expecting for mode of training | | | | |
| | Theoretical | 0 | 0 | 0 | 0 |
| | Practical | 14 | 28% | 36 | 72% |
| | Both | 36 | 72% | 14 | 28% |
| 6 | Distribution of time preferring to need for ICT training | | | | |

| | | | | | |
|---|--|----|-----|----|-----|
| | Working day | 44 | 88% | 06 | 12% |
| | Holidays | 8 | 16% | 42 | 94% |
| | After class hours | 02 | 04% | 48 | 96% |
| | Not necessary | 0 | 0 | 0 | 0 |
| 7 | Divided of their gave to prefer of medium for ICT training | | | | |
| | Tamil | 4 | 08% | 46 | 92% |
| | English | 28 | 56% | 22 | 44% |
| | Both | 36 | 72% | 14 | 28% |
| 8 | Distribution of their need supplementary material of ICT training program | 10 | 20% | 40 | 80% |
| | Print | | | | |
| | E-Material | 10 | 20% | 40 | 80% |
| | Both | 30 | 60% | 20 | 40% |
| | Not Necessary | 0 | 0 | 0 | 0 |

The respondents were asked whether they are familiar with Internet browsing, 76 percentages said that they know about internet browsing. 40 percentage of the respondent said that they know about downloading and 56 percentage of the respondent said they know preparation of power point. Remaining 24 percentage of the respondent don't know about the internet browsing 60 percentage downloading as well as 44 respondent said don't know preparation of power point. By this study it found that to give more important for training program to teaching educator about fundamental MS office program and Internet

The respondents were enquired about their feel difficulties for operating the ICT equipments, 76 percent of the

respondent said difficulties in Installation. Rest of them knows the installation. 40 percent of the respondents reported feel difficulties for Operational techniques in ICT equipments. 60 percentage of the respondent said that they know operational techniques.

60 respondents were using the Slides, 24 respondents were using the E-Journal and 48 respondents using the videos for teaching and learning purpose. Other respondents said that they don't use the above web resource. Hence the researcher pointed out to specify the importance of web resources for teaching and learning for the teacher educator through workshop and training.

28 percentage of the respondent need for Workshop of periodical training on ICT based Teaching & Equipment operations. 56 percentage of the respondent require for Technical training. 8 percentage of the respondent said not necessary for this training. So more than 50 percent of the respondent expecting technical training program.

The respondents were asked about their expecting for mode of training. Nobody require exclusive theoretical. 28 percentage of the respondent said practical and 64 percentage of the respondent said that both theoretical and practical mode of training.

The respondents were asked about their time preferring for ICT training 88 percentage of the respondent said working day. 16 percentage of the respondent said holidays. 04 percentage of the respondent said after class hours.

The respondents were asked about their preferences in medium for ICT training. 08% of the respondent said Tamil medium. 56 percentage of the respondent said English medium. 28 percentage of the respondent said both languages.

The respondents were asked about the type of supplementary material during the ICT training program. 20 percentage of the respondent said printed versions. 20 percentage of the respondent said E-

Material. 60 percentage of the respondent said both.

Findings

- 62 percent of the respondents belonged to the age group of 18 – 25 years.
- 100 % of the respondents interested in Information Communication Technology (ICT) for teaching and learning purpose.
- 100 % of the respondents said that ICT based teaching gives more understanding to the students
- 52% using tutorial CD for their teaching and learning
- 100 % of the respondents know about the smart class room concept
- 20% of the respondents practice the videoconferencing(Skype)for their teaching purpose
- 76 percentage of the respondents said that they know about internet browsing. 40 percentage of the respondent said that they know downloading and 56 percentage of the respondent know the preparation of power point.
- 40 percent of the respondents reported

that they feel difficulties in Operational techniques of ICT equipments. 60 percentage of the respondents said that they feel difficulties in Installation of ICT equipments.

- 60 respondents were using the Slides, 24 respondents were using the E- Journal and 48 respondents using the videos for teaching and learning purpose.
- So more than 50 percent of the respondent expecting technical training program.
- 72 percentage of the respondent said that need both theoretical and practical programe.
- 88 percentage of the respondent giving time preferring at working day.
- 72 percentage of the respondent prefer both English & Tamil medium in the training.
- 60 percentage of the respondent expecting supplementary materials during the training in the form of print & E- Material.

Discussion & Summers

This Research paper discusses the maximum Teacher Educator are aware about the ICT based teaching but they are not adopting the Technology for some

reason. They are having minimum knowledge about the equipment operation, availability of web resources, Skype, Video Tutorials, streaming etc., and the teacher educator's required practical training regarding the technology and updating versions.

Conclusion

The Teacher Educators were accepted the importance of ICT for better understanding in education but the lake of awareness to getting the source of information and operational technique in the field of ICT will reduce their intention to adopt the ICT based teaching and learning. The Teacher Educator is the first person to understand about the variety of Information Communication Technology for teaching. It is the need of the hour. Government and Educationist were highly recommended the ICT usages in the class rooms for better understanding of the students. The teacher educator and the students also enjoy the global knowledge and their marketing. Therefore steps should be taken up for the Teacher Educator to know about the Technology. Teacher Educator should be given essential knowledge in computer programming and some relevant Application Software. Teacher Educator should be clearly discussed with Smart class concept and current updating. The periodical training is to be given to the Teacher Educators with regard ICT and related equipments and its operational techniques. The overall exposure and practical training gives confident to every individual and lead those to adopt ICT based Teaching and learning. Besides that, it will be

inducing the teacher educator to prepare their course module with variety of ICT tools and empower their knowledge and others.

***“Education gives
you Information and Knowledge.
But ICT based
education also gave up survival....”***

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