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PERCEIVED EFFECT OF USE OF INFORMATION AND COMMUNICATION TECHNOLOGY TOOLS FOR INSTRUCTIONAL DELIVERY IN TERTIARY INSTITUTION IN NIGERIA.

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ABSTRACT: One of UNESCO's overriding aim is to ensure that all tertiary institutions both colleges of education/polytechnics, and universities have access to the best of educational facilities necessary to prepare young people to play full roles in modern society and to contribute to a knowledge nation. They maintain a capacity to advise national government on the use of technology in schools and in particular on the use of institutional delivery tools. It defines ICTS, classified four basic institutional uses of such as retrieval of new knowledge and integration of evolving technologies for the management of teaching and learning. Moue so, e-learning, blended learning, open and distance learning, learner centered environment, Title conference, telecollobration as well as to improve quality of education were highlighted challenges confronting institutional delivery were examined. Recommendations were made which include the parliamentarian should pass a bill on stabilizing the price of educational tools in the markets to make it affordable for students to acquire at a reduced rate. Also conferences, workshops and symposium should be organized to train people and enlighten them on the need for instructional delivery in schools.

KEYWORDS: ICT, Tools, Instructional Delivery, Tertiary Institution, Nigeria.

INTRODUCTION

Information and communication technology (ICT) is a force that has changed many aspects of the way we live. If one was to compare such as medicine, tourism, travel, business, law, banking, engineering and architecture, the impact of ICT across the past two or three decades has been enormous (Nzeako, Iwu and Anacle 2012). According to them, the way these fields operated today is vastly different from the ways they operated in the past. But when one looks at education, there seems to have been an unwary lack of influence and far less change than other fields have experienced. A number of have attempted to explore this lack of activities and influence but failed. Conventional teaching has emphases context. For many years course have write around textbooks. Teachers have taught lectures and presentations interspersed with tutorials and learning activities designed to consolidate and rehearse the content. Contemporary settings are now favoring curricula that promote competency and performance-based curricular are well supported and encouraged, by emerging instructional technologies (Collins 2002), such curricular tend to require access to a Variety of information sources, access to

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variety of information forms and types; student centered learning settings, based on information access inquiring learning environment centered on problem centered and enquiry based activities, authentic settings and examples and teachers as coaches and mentors rather than context experts (Oliver 2000).

In recent years there has been a groundswell of interest on computers and the internet can best be harnessed to improve the efficiency of education at all levels and in both formal and non-formal settings (Iwu 2012) But information and communication technology (ICT) is more than just these technologies (Nzeako 2012), Older technologies such as telephones, radio, and television, although now is given less attention, have a longer and richer history as instructional tools. For instance, radio and television have for over forty years been used for open and distance learning, although print remains the cheapest most accessible and therefore most dominant delivery mechanism in tertiary institutions. The use of instructional delivery tools is still I its infancy in our tertiary institutions. Moreover, different technologies are typically used in combination rather than as the sole delivery mechanism.

What is Instructional delivery Tool?

Instructional delivery tool is a planning tool for developing an integrative service delivery plan that focuses on giving students who show least and most instruction and related service support. Instructional delivery tools (Nzeako, Iwu and Anaele 2013), are diverse set of technological tools and resources used to communicate, internet, create disseminate, store and facilitate sharing of information and provide educational opportunities in a rural community. Instructional delivery tools are tools that has an input, output and we must be able to process with it (Baron, 1998) To support these opportunities, instructional tools can support these opportunities, instructional uses namely, retrivieval resource, and integration of evolving technologies for the management of teaching and learning.

Harris (1998) identified tools for retrieving information as;

A (i) Computer.

Information exchange about cultural traditions, environmental issues, promising practices, expert consultation online, and tile field tropism information providers, when access to digital libraries of information, photos, documents and databases, common documents, such as collected stories that are published electronically, news analysis in electronic magazines.

(ii) Video

Information, satellite delivered programming images in the form of slides, films or video tapes.

(iii) Audio

Radio access to information and stories.

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Tools for communication.

B (i) Computer.

E-mail exchange involving interaction between students, teachers, adults, and exports in a global learning environment, news groups, forums and internet bulletin boards where common topics of interest explored distance mentoring in which universities, business and schools provide online services in the form of mentoring and integrated learning packages and courses, real time, text based interactions.

B (ii) Video

Live, interacting video and video conferencing opportunities between two or multiple sites provided by real time video capability combined with audio tools.

B (iii) Audio

Interacting technologies using the telephone, audio conferencing and radio wares.

B (iv) Print

Print still considered viable tools for study guides, course syllabic, case studies, support text and so on.

Tools For Electronic/Multimedia, Production and presentation.

C(i) Video

Image/Sound Capturing, editing and production devices, assessment, profiles and data bases.

C(ii) CD

Mixed media presentation for web publication.

D Integrated mixture of tools that support instructional management.

D (i) Online.

For management of resources, assessment, profile and databases.

Littlejohn (2012) asserted that a variety of mixed media is commonly used. It might include a print component in the form of course text, reading, schedules or syllabi accessed through the internet. Two ways interactive audio or video can provide real time face to face and voice-to-voice interaction. Live audio/video media can incorporate guest speakers, mentors and content experts who would otherwise not have the opportunity to be in class. Communication among teachers, mentors and peers can be accomplished through computer conferencing, electronic mail and online forums. Pre recorded video tapes can be used for class presentations, distribution of assignments and announcement can be transmitted via Fax. Collaborative problem solving among global partners project can be conducted using current delivery media

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Diffy, T	Currigham (2006) highlighted with more instructional tools such as;
E learning	most commonly associated with higher education and corporate training, E-learning encompasses learning at all levels, both formal and non formal That uses an information network, the internet, (LAN) or extract (WAN) Whether wholly or in parts for course delivery, interaction, evaluation and
Wah hagad	Facilitation, others prefer the term on line learning.
Web based Learning.	Blended learning refers to learning models that combine traditional class Room practice with e-learning solutions. Blending was prompted by the Recognition that not all learning is best achieved in an electrically-Mediated environment particularly one that dispenses with a live Instructor altogether. Instead, Consideration must be given to the subject Matter, the learning context in under to arrive at the optimum mix of Instructional and delivery methods.
Open and	open and distance learning is defined by common wealth of learning as 'a
Distance	way of providing opportunities that is characterized by the separation of
Learning	teacher and leaner in time or place or both time and place, learning is Certified in some way by an institution or agency, the use of a variety of Media, including print and electronic two ways communications that Allows learners and tutors to interact the possibility of accessional face To-face meetings and a specialized division of labor in the prediction and Delivery of courses.
Learner	The national research council of the US defines learners. Centered
Centered Environment	environments as those that pay careful attention to the learners bring with
E learning.	Interaction and communication technology supported learning encourages Interaction and co- operation among students, teachers and experts
E learning.	Regardless of where they are. Apart from modeling real world interaction, Information and communication technology supported learning provides Learners the opportunity to work with from different cultures, thereby Helping to enhance learners, teaching lifetime by expanding the learning Space to include not just peers different field.
Online.	Online learning involving students logging in to formal courses. Online is
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	Perhaps the most commonly throughout application of the internet in Education.
Web based	web-based collaboration tools, such as e-mail list severs, message boards,
Collaborat	real time chat and web based conferencing connect learners to other learner
-Ion tools.	S, teachers, educations, scholars and researchers, scientists, industry leaders
	And politicians to any individual with access to the internet who can enrich
	The learning process.
Tele	The organized of web resources and collaboration tools for curriculum
Collaborat-	
ion	telecollaboration as an educational endeavour that involves people in
	Different locations using internet tools and resources to work together.
	Much educational collaboration is curriculum based, teacher designed and
	Teacher coordinated. Most use e-mail help participants communicate with
	Each other. Many telecollaborative activities and projects empower student
	To become active, collaborative learners.
Radio and	radio and television have been used widely as educational tools since 1920s
Television	1950s respectively, three general approaches to the use of radio and
	Television broadcasting in education include direct class teaching, where
	Broadcasting programs substitute for teachers on a temporary basis,
	Secondly school broadcasting, where broadcasting programs provides
	Complementary teaching and learning resources not otherwise available,
	Thirdly, general educational programming over communities, national and
	International nations which provide general and informal educational
	Opportunities. The notable and best documented example of the direct
	Class teaching approach in interactive radio instruction (IBI). This consist
	Of ready made 20-30 minutes direct teaching and learning exercise to the
	Classroom on a daily basis.
Telecon-	Teleconferencing refers to interactive electronic communication among
Ferencing.	People located at two or more different polices. There are four types of
	Teleconferencing based on the nature and extent of interactivity and the
	Sophistication of the technology. They are audio conferencing, audio
	Graphic, video conferencing, web based conferencing and computer
	Conferencing and computer conferencing.
Audio	This involves the live (real-time), exchange of voice messages over a
Confere	telephone not work when low bind width text and still images such as graph
-ncing	diagrams or fixtures can also be exchanged along with voice messages. Non
	Moving visuals are added using computer keyboard or by drawing/writing
	On a graphic tablet or white board.
Audio	Audio graphic teleconferencing system involves the use of computer or
Graphic	fasiurile technology to transmit visuals to support audio some computer
	Systems allow the transmission or graphic, programs and data where each
	Site sees anything on the instructor computer seven besides hearing the audio
	Audio graphic systems are good for classes that involve a lot of illustrations,

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Such as equations or computer applications.		
Web based	Web based conferencing involves the transmission of text and graphic, audio	
Confere-	and visual via the internet, it required the use of a computer with a Brower	
Ncing.	And communication can be synchronous and asynchronous.	
Computer	computer based instruction (CBI) refers to instructional program that the	
Based ins-	student uses alone on a personal computer, the program is usually provided	
Truction.	On CD ROM, in multi-media format (graphic, text, sound and video). It	
	Divides computer based instruction into multi media based like CD-ROM,	
	E-mail and WWW.	
Based	With the enormous number of resources available online, and the increasing	
Instruction	number of people who have access to the internet, web-based instruction	
	Considered one of the fastest media for teaching and learning. The world	
	Wide web provides a cost effective, technology rich, and interactive	
	Medium.	

Use Of Instructional Delivery Tools To Improve The Quality Of Education.

Improving the quality of education and training is a critical issue, particularly at a time of university expansion. Instructional delivery tools Nzeaka, Iwu and Anaele (2012) serves as transformational tools which when use approximately can promote the shifts to learner centered environment through;

1. Motivating to learn:

Information and communication technology such as video, television, and multimedia computer software that combine text, sound and colorful moving images can be used to provide challenging and authentic content that will engage the student in the learning process. Litevactive radio likewise makes use of sound effect, songs, dramatization, comic skills and other performance conventions to prepare the students to listen and become involved in the lesson being delivered.

2. Facilitating the acquisition of basic skills:

The transmission of basic and concepts that are the information of higher order thinking skills and creativity can be facilitated by instructional tools through drill and practice. Instructional television programs helps students to master skills and content through repetition and reinforcement.

- 3. Enhancing teacher development capacity: Instructional delivery tool Is used to improve access to and the quality of teachers development. More courses are added to tertiary institutions which encourage reform.
- 4. Promote paradigmatic shift: Research has shown that the appropriate use of instructional delivery tool can catalyze the paradigmatic shift in both content and pedagogy that is at the heart of education reform in the 21st century. If designed

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adequately, it can promote the acquisition of the knowledge and skills that will empower students for life home learning. (Things a etal learning 31may 2002).

Challenges of Instructional Delivery Tools In Tertiary Institutions.

- 1. The challenges of instructional delivery two are both educational and administrative. The prominent among the administrative problems in cost. Over the years, the cost in purchasing most of the instructional tools has been on the high side. This has been a deterrent to the adoption of instructional tools for purposes in most universities.
- 2. The meager funding of education in Nigeria coupled with low technological level has been an impeachment to the provision of instructional delivery tools and use for instruction in Nigeria universities.
- 3. Death of trained personnel militates against the use of instructional deliver tools for instruction. Experts with technical knowhow of instructional tools are few.
- 4. Another impediment to the use of instructional delivery tools can be attributed to the syndrome of resistance to change among the Nigerian lecturers. They regard the use of instructional delivery as an increase in their tasks in the classroom without adequate compensation.
- 5. Closely related to resistance to change is the problem of poor technological development in Nigeria. Nigeria is a developing country where the rate of illiteracy and poverty is high among young and old.

Recommendations

The under listed recommendations were put forward

- 1. The parliamentarian should pass a bill on stabilizing the pride of computers in the market to make it easier for people to acquire at a reduced rate.
- 2. The government should provide enough funds for universities to purchase instructional delivery tools for instructional purposes and make available suitable environment in our tertiary institutions.
- 3. Curriculum developers should make educational technology one of core and compulsory courses to be offered and passed in all the department in tertiary institutions
- 4. Conferences, workshop and symposium should be organized to train people and enlighten them on the need for instructional delivery tools in universities.

CONCLUSION

The world is global village. The present age of technological advancement has brought changes into virtually all human endeavor including teaching and learning process, acquisition of instructional delivery literacy skills as well as good face-value in computer education is a singqua-non for all and sundry especially lecturers and non academic staff in the universities, promotion in places of works and securing a well paid job are all attached to instructional delivery literacy hence the society should get more enlightened through instructional delivery tools.

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