

Technology Enabled Digital Courseware

G.Saraswathi, Dr .S.Leo stanly

Abstract: Technology enabled learning can be considered as any kind of learning that is enabled by technology. Digital courseware is a collection of electronic elements of resources that used to create all type of study material for learning purpose with the help of technology. Though the digital courseware augments the learning experience by sequencing subject matters with the usage of multimedia features for visualization, it creates rich learning environment that make effective learning. Coursewares are prepared by agencies and organizations as well as individuals. It is customized according to the individual, educational Institution, societal needs. It enhances personalized learning and students achievements. High quality digital coursewares are converted into the open educational resources with the help of open licensed system. Many kind of OER are available for free use for the teachers, educator and researchers.

Index Terms: Keywords- Technology Enabled, Digital Courseware, Technology Tools, Multimedia, Critical thinking .

1. INTRODUCTION

In this paper the investigator discusses about technology enabled digital courseware from an educational pedagogical perspective view, which is great tool for educators to utilize digital courseware in classroom effective manner and beyond the classroom instruction.

2 TECHNOLOGY DEFINITION:

Technology defined as something that is used to be any kind of hardware and software to seek the solution real life situation problem. Scientific knowledge apply into practical purpose. With the help of technology we can to add value through invent new useful machines and tools or processes and methods in human life. Enabling means whatever like machines and methodology that alone or encompass link with the internet.

3 DIGITAL COURSEWARE DEFINITION

All type of data transfer into the digital language is defined as digitalization, like video, sound, text, animation. Digital courseware is one of the software tools, which is used to develop all types of learning content and convert them into digital form. Then it can be used as a open educational resources. The purpose of digital courseware is to provide a learning experience to learners.

4 PARAMETER OF DIGITAL COURSEWARE PROCESS

4.1 Need analysis

It is very important to define the needs before developing the digital courseware. Needs can be identified from the perspective of different stakeholders like learners, teachers, subject experts, practitioners, policy makers etc. It can also be based on the findings of primary and secondary research studies and can be inferred from the current scenario of the educational setup.

4.2 Context analysis

It is the collection of data to understand the physical, technical and socio-cultural contexts in which the Digital courseware will be used.

4.3 Learner analysis: (Target Audience)

It refers to capturing data with respect to the target audience.

4.4 Content Analysis :

Content analysis defines the scope, appropriateness and nature of the Digital courseware. It also helps in understanding the purpose and mode of using Digital courseware. (The Department of School Education and Literacy (DSE&L) MHRD, Govt. of India)

5 TOOLS FOR COLLABORATION TECHNOLOGY

Learning management system:(LMS)

Learning management system consists classroom management, capacity buildings, individualisation, certification of course training. Online Discussion boards and chating, mentoring and , authoring. LMS are especially representing delivery so many learning programs. LMS are facilitating educational purpose, which consist myriad resources and interactive tools. Through the LMS teacher can display subject content on a white board. According to learner's need some specific activities are also assigned in it. The best example in educational field LMS is Google classroom tool in Google apps, moodle, canvas, D21, blackboard etc.

□ educators and learners can create account and assign group

□ it allows accessing digital content to students for classroom learning, online testing.

□ Learning management tool enhance learner's performance and makes them ready for next level of learning and assign remedies.

□ LMS maintains Student progress reports also.

6 CONTENT MANAGEMENT SYSTEM:(CMS)

Content management system contain data resources, messaging and communication tools, information management tool, conferencing and assessment tools etc. We can use these tool such as web browsing , file creating, editing and transferring process. power point functions, and Messaging tool such as e-mail, all type of text like plain text, html, URLs .threaded discussion. Also it contains synchronous tools like discussion forums, chat. asynchronous

- G.Saraswathi, Research scholar, (Full-time), Department of Education.(DDE), Alagappa University,karaikudi. Mobile No.9786484487,e mail:saraswathiyuva98@gmail.com
- Dr.S.leo stanly Research Supervisor, Associate Professor, Department of Education,(DDE), Alagappa University karaikudi. Mobile No:999426978 e Mail :leo stanlys@gmail.com

communication tools. The top most famous CMS are Blackboard, WebCT and eCollege. Which encompasses teaching and learning associated functions like course content creation and archiving, assessment tools, grade books, and Web links, etc.

7 PROS OF TECHNOLOGY BASED DIGITAL COURSEWARE AND PEDAGOGY:

7.1 Stimulate an alternative learning:

The capacity of Technology enabled digital courseware is to deal with geographical distances and own pace learning for learners. It makes link with stakeholders like subject experts, educators and co-scholars, which allows students to access online and off line learning from anywhere and anytime. It may lead to concept understanding.

7.2 Quick and painless access to information:

Technology enabled Digital courseware provide purveyors knowledge about all discipline. It enhances students perception and logical thinking that includes educational resources like expert's lecture notes and all types of Information through web.

7.3 Beyond the campus counterparts:

Usage of multimedia approach in digital courseware develops students critical thinking and converting raw information into effective visualization process, which can facilitate access to resources globally and link internet and Web. Digital courseware mainly focuses on personalization and active learning.

8 CONCEPTUAL CLARITY AND RETENTION: THROUGH DIGITAL COURSEWARE

□ Multi - media, using long and close-up shorts, or highlighted text, statement of learning objectives and use of advance organizers (video segments are an ideal medium for this purpose);

□ Recall of prior knowledge to working memory presenting information in the proper sequence using media that is best suited for stimulating learning.

□ Providing context to associate new information to larger schema or propositions;

□ Questioning the student on the main points or requiring the student to summarize the lesson;

□ providing the student with a timely response about the correctness of their answers and clarifying misconceptions through interactive systems, testing or requiring the student to restate information in their own words. Providing additional examples or using mnemonics.

□ Digital learning is the information processing perspective, which considers learning as a change in knowledge in our stored memory.

□ When student pay attention to inputs into our sensory register, these inputs (or information) become part of our working (short-term) memory.

□ If learner want to retain this information, it needs to be encoded as schematic into our stored (long-term) memory.

□ Learners can retrieve all information from our stored memory to use it later.

□ Teachers can support students to process information by helping them to organise new information, link it to their

existing knowledge and use memory aids to retrieve information.

□ Using Digital teaching learning process in the classroom allows learner to experiment more in pedagogy and get instant feedback.

Digital learning environment in the classroom helps ensure full participation. There are countless digital resources for enhancing rich education and making learning with conceptual clarity and retention.

(Saraswathi G and Leo Stanly S)

9 ACKNOWLEDGMENTS

This article has been written with financial support of RUSA-Phase 2.0 grant sanctioned vide Letter No. F. 24-51 / 2014-U, Policy (TNMulti-Gen), Dept. of Edn. Govt. of India, Dt. 09.10.2018.

REFERENCES

- [1] Saraswathi. G and Leo Stanly. S,(2019), "Innovative Digital Courseware in Distance Learning", Page No,(170-172),Global Challenges in Distance Education, International Conference, Bharathidasan University
- [2] Saraswathi.G and Leo Stanly (2019), "Conceptual clarity and Retention through digital courseware", International conference on cognitive psychological and Behavioural perspectives,college of Education, Alagappa university, Karaikudi.
- [3] Saraswathi .G and Leo stanly.S (2019), "thematic based digital courseware", Indian journal of applied research vol.9,iss.8 p(1-2) ISSN No. 2249 - 555X
- [4] Retrieved from <https://www.impelsys.com/on> 5.7.2019
- [5] Retrieved from <http://www.ontariocreates.ca/Assets/> on 16.10.2019