

**DIGITAL TECHNOLOGY RESOURCE  
UTILIZATION AND THE LEVEL OF  
ACHIEVEMENT IN LICENSURE  
EXAMINATION AMONG STATE  
UNIVERSITIES AND COLLEGES**



**HAYDE EDERA DIALDE-FABROA, PhD**

Researcher

**Surigao State College of Technology**

**Surigao City**

## Introduction:

In the academic world, an increased knowledge and skills about the design of more useful and usable technology enhanced teaching and learning environment in order to develop a more creative and productive learners. (Harley (2007)

To survive and thrive in this generation, teachers and students must be digitally literate.

(Barton et al.2009)

## Purpose:

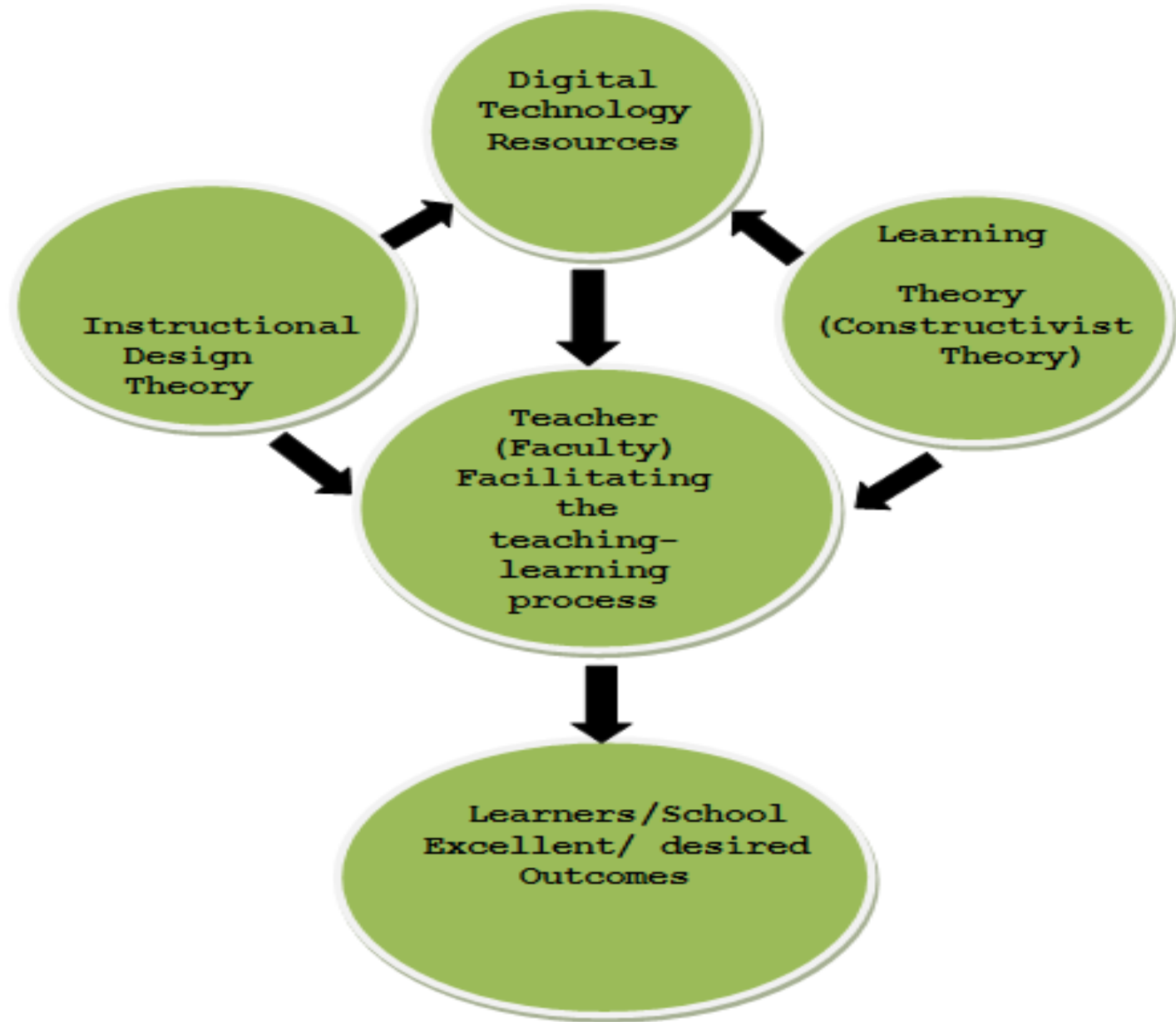
---

To map out in the different institutions the availability of digital technology resource utilization to undergraduate educators and to examine how users and non-users might benefit the integration of resources into scholarly environment.



It is already accepted from different studies that the utilization of digital technology resources to pedagogy makes up a good instruction (Lucido, 2012).

As reflected in the Theoretical Model , digital technologies must be introduced in class using Instructional-Design and Learning Theories.



# THEORETICAL MODEL

**Extent of Digital  
Technology Resources**

- Computer
- LCD  
Projector
- Digital  
Camera
- Internet  
Search
- CD  
browsing
- Cell phone

**Licensure  
Achievement in**

- Education
- Engineering

**Technology  
Management  
Philosophy**

**Research Paradigm**

## Statement of the Problem:

1. What is the extent of utilization  
In accessing digital technologies  
of the respondents as to the use  
of:

- 1.1 computer,
- 1.2 LCD projector,
- 1.3 digital camera,
- 1.4 internet search,
- 1.5 CD browsing,
- 1.6 cellphone,
- 1.7 LCD scanner, and
- 1.8 printer?



**2. What is the level of achievement in licensure examination among SUCs in the following programs:**

**2.1 education, and**

**2.2 engineering?**

**3. Is there a significant difference among the extent of**

**3.1 utilization, and**

**3.2 level of achievement in licensure examination?**



4. Is there a significant relationship between the Utilization of Digital Technology Resource utilization and Level of Achievement in the licensure examination?

5. Based on the findings, of the study what Technology Management Philosophy may be formulated?

---

## **Methods :**

- .Descriptive -Inferencial**
- .Differential Method**
- .Correlational Method**

## Distribution of Respondents

SCHOOL	PROGRAMS	n	TOTAL
Agusan State College of Agriculture and Technology (ASCAT)	Education	25	36
	Engineering	11	
Caraga State University (CSU)	Education	25	40
	Engineering	15	
Surigao Del Sur State University (SDSSU)	Education	25	40
	Engineering	15	
Surigao State College of Technology (SSCT)	Education	25	40
TOTAL			156



**Findings.** Based from the results, this study found out that:

- 1. The respondents utilized often the computer, LCD projector, digital camera, internet search, CD browsing, cellphone, and LCD scanner for instruction but always used printer for instruction.**
- 2. The SUCs obtained more than 50% passing rate on average in Education and Engineering licensure examinations.**

3. There is a significant difference among the extent of utilization in accessing digital resources for instruction but there is no significant difference on the level of achievement in licensure examinations between Education and Engineering programs.

4. Significant relationships exist between the level of achievement in LET and the extent of utilization in accessing computer, LCD projector, and printer. Also significant relationships exist between the level of achievement in engineering licensure examinations and the extent of utilization in accessing computer and digital camera.



---

5. The teacher utilizes this Digital Technology-Bridged Model in order to bridge between instructions in passing the board examination. This is the Technology Management Philosophy that will be applied by the teachers.

**Conclusions:** On the basis of the findings, the following conclusions were drawn:

1. They always used printer for instruction because they will utilize the produced hard copy by the reporters everytime they will have a reporting activity. As such most of the review materials were reproduced and distributed to the learners. They always often Computer, LCD projector, digital camera, internet search, Cd browsing, and cellphone

2. SUCs obtained more than 50% passing rate on average in Education and Engineering licensure examination because these programs utilize digital technology resources in facilitating the teaching learning Process.

3. The use of digital technology resources vary considering the availability and convenience of its use for instruction.



- 
4. The more the teacher is fully equipped with the necessary technological skills and knowledge on how to apply the different learning and instructional design theories in order to integrate aligned and appropriate digital technologies the more takers will pass the board examination.
  5. Digital technology resources serve as bridge between the instruction and the performance of the SUCs in Licensure Examinations.

---

The diagram illustrates the Digital Technology-Bridged Model. It consists of three main components arranged horizontally. On the left is a green circle containing the word 'Faculty'. In the center is a large green double-headed arrow with the text 'Digital Technology Resources' inside it. On the right is another green circle containing the text 'Learners Licensure Examination Performance'. The entire diagram is set against a light beige background with a subtle pattern of thin, parallel lines.

**Faculty**

**Digital Technology  
Resources**

**Learners  
Licensure  
Examination  
Performance**

**Digital Technology-Bridged Model**

**Recommendations:** Based on the conclusions drawn from the study, the following recommendations are offered:

SUCs Officials should provide Modernize basic school classroom by equipping every classroom with computer and LCD projector in order to adopt The State-of-the-Art Pedagogy.

They should allow training for teachers usually focuses on technology skills in utilizing the gadgets and equipment. Sufficient support from the SUC officials in getting the best from technology in terms of their learning, and on-going professional development to upgrade themselves on the rapid advancement of Technology that is align and appropriate in integrating the teaching learning process.



~~Training for learners usually~~ focuses on technology skills in utilizing the gadgets and equipment. They should be supported in developing the utilization of digital technology to ensure it improves learning.

Researchers are encouraged to utilize the findings in this study and make this as the springboards for further replications that include in the present investigation.

---

That ends my presentation .....  
thank you very much for patiently  
listening.

God bless us all... .