# Republic of the Philippines

# **UNIVERSITY OF EASTERN PHILIPPINES**

Pedro Rebadulla Memorial Campus

Catubig N. Samar

# Module in TECHNOLOGY FOR TEACHING AND LEARNING 1.

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BSED - III - Filipino

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**Subject Instructor** 

# PRE-TEST:

- 1. D
- 2. A
- 3. D
- 4. D
- 5. D
- 6. C
- 7. C
- 8. C
- 9. A
- 10. C
- 11. D
- 12. D
- 13. A
- 14. A
- 15. A
- 16. C
- 17. C
- 18. C
- 19. A
- 20. D
- 21. A
- 22. C
- 23. B

- 24. C
- 25. A
- 26. C
- 27. A
- 28. B
- 29. A
- 30. D
- 31. C
- 32. D
- 33. D
- 34. A
- 35. C
- 36. D
- 37. D
- 38. A
- 39. B
- 40. B
- 41. A
- 42. D
- 43. A
- 44. B
- 45. C

# LESSON 1

# ICT Competency Standards for Philippine Pre-service Teacher Education

# Learning Task 1

What are the competency standards?	Answer:
	Domain 1: Understanding ICT in Education
	Domain 2: Corriculom and Assessment
	Domain 3: Pedagogy
	Domain 4: Technology and Tools
	Domain 5: Organize and Administration
	Domain 6: Teacher Professional Learning
	Domain 7: Teacher Disposition

What are the ICT standards for teaching and	Teacher	Student	
learning in the Philippine pre-service education?	Technology operation and concepts	Creativity and innovation  2. Communication	
	2. Planning and designing learning environment and experiences	and collaboration  3. Research and information fluency	
	3. Teaching and	4. Critical thinking, problem solving and	

learning curriculum	decision making
4. Assessment and	5. Digital citizenship
evaluation	6. Technology
5. Productivity and	operation and
professional practice	concepts
6. Social ethical, legal and human issues	

Who is the better equipped to handle the 21st century learners? Teacher A or B? Why?

## Answer:

The teacher who is better equipped to handle the 21st century learners is...(Teacher B), Because now a days the students easily learn or gain knowledge by using technology than traditional teaching style. So that teachers can easily do their job or teach the student by using teachnology for teaching.

Which is the two teachers would you like to become when you graduate? Why?

#### Answer:

Actually I want to become one of the teacher who adopt and use technology for teaching. But first of all, we need to consider our students strenghts and weaknesses. Some of the student specially in far barangay didn't know how to use Laptop/computers, they cannot afford to buy those gadget and even to have an internet connection. It will be one of the factor that can affect the performance of my student. For that reason I will use both

strategy, the traditional teaching strategy, and
by using technology for teaching.

Give reasons for choosing picture A.	Answer: The particular reason for choosing
	picture A is that other student who live in far
	brgy. and those who belong to low income
	family cannot afford to buy those gadgets and
	they have poor internet connection, so we
	need also to considered those students and to
	use the traditional teaching style.

Give reasons for choosing picture B.	Answer: The particular reason for choosing
	picture B is that, 21st century learners uses
	technology in different aspects of our life,
	especially students are already attached to
	what technology can provide, and teachers
	already know how to use this new
	teachnology.

# Learning Task 2

ICT Domain	Performance INDICATOR most important for us to do	Performance INDICATOR least important for us to do
Domain 1	Demonstrate awareness of policies affecting ICT in Education.	Contextualize ICT Policies to the learning environment.
Domain 2	Use ICT tools to develop 21st century skills: information	Evaluate digutal and non- digital resources in response

	media in Technology skils, learning and enovation skills, career skill and effective communication skills.	to students diverse needs
Domain 3	Apply relevant technology tools for classroom activities.	Model collaborative knowledge construction in face to face and virtual environment.
Domain 4	Use of technology tools to create new learning opportunities to support community of learners.	Demonstrate competence in the technical operations of technology tools and systems to apply to teachiing and learning.
Domain 5	Exhibit leadership in shared decision making using technology tools.	Manage technology assested instruction in an inclusive environment.
Domain 6	Explore existing and emerging technology to acquire additional content and pedagogical knowledge.	Utilize technology tools in creating communities of practice.
Domain 7	Demonstrate social, ethical and legal responsibilities in the use of technology tools and resources.	Show positive attitude towards the use of technology tools.

# Learning Task 3

Dear Teachers, please mark		
check your answer to the	VEC	NO
following questions found	YES	NO
below:		

1. Do you use technology in	10	
your teaching?		
2. Are you aware of policies	5	5
2. Are you aware of policies	3	3
that guide you in the use of		
ICT?		
3. Do you use non-digital	10	
learning resources in your		
teaching?		
-		
4. Do you develop digital	10	
resources from your learners?		
5. Do use technology tools for	10	
classroom activities?		
6. Are you expert in the use of	5	5
technology tools in your		
classes?		
7. Do you have facilities to use	10	
the technology tools in your		
classes?		
8. Are you aware of the	6	4
ethical and legal		
responsibilities in the use of		
ICT tools?		
9. Are your student learning	1	9
better with the use of	_	
technology tools?		
teermology tools:		
10. Do you enjoy using ICT	10	
tools in your teaching?		

How many answered YES? or NO for each item?	

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From the number 1,3,4,5,7 and 10 there are 10 Yes from my respondents while number 2 and 6 has 5 Yes and 5 No and number has 6 Yes and 4 No and lastly number got 1 Yes and 9 No.

What percent is YES or NO?

Answer:

Out of 100%, Yes answers are 77% while no answers are just 23%.

Which of the 10 items has more YES than NO answers?

# Answer:

The items has more Yes than No answers are 1,3,4,5,7,8 and 10.

Rank the items with more YES and rank the items with more NO.

# Answer:

# Rank

Yes	No
1.1,3,4,5,7 and 10	9
2.2 and 8	2 and 6
3. 2 and 6	8
4. 9	

What meaning can you derive from the results? Answer: It's actively means that , teachers now a days integrate or uses technology or ICT as one of their teaching tools. They already embracing technology as part of the education system and as new educational tools or equipment. Through this technology school works and activities perform easily and become more productive, but there are some cases that can affect student performance due to lack of knowledge by using it. Especially in far brgy, some of the student are not literate by using computers. So that teachers uses both traditional teaching style and uses technology for teaching. Lesson 2 **Understanding Basic Concept in ICT** Learning Task 1 **Technology Word ahunt** 1. Т I Т Ε Ε Ν R Ν 2. Т Ε С Н Ν 0 L Υ 0 G 3.

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4.	<u>'</u>		<b>'</b>						1	
F	А		С	E	В		0	0		K
5.										
S	0		F	Т	W		A	R		E
6.										
E			М	A	4		I		L	
7.									_	
L		Α		Р	Т			)		Р
•										
8.										
E	3		l	-		0			G	
9.										
W		I			K			I		
10.										

Exchange!

Concepts Identified	My thoughts about the	My friends thoughts about the	
	Concept	Concept (ask your friend to	

		get an answer
The drawbacks of bringing technology in classroom	We all know that using technology in the classroom plays an important role and gives an impact in every students. But seeing the other side, using technology in the classroom has its drawbacks. For instance, during class hour, some students are using their mobile phones which are not related in their lesson.	Now a day's Technology is considered as very important tool for us to survive in this current era, especially as a student it has a big impact in my study along the lines of; easily getting an information, gain new knowledge, and save a lot of time. Students allow to actively think about the information/criticize information, making choices, and executing skills by using technology tools. We are done talking some of the advantages of the technology, but it's undeniable that it has also a negative effect in our life and as a student. Student sometimes overuse technology in the classroom which obviously affects the learning process in a negative way along the lines of plagiarism, depends of what technology can provide, and cheating have increase while analysis and critical thinking have declined, this puts new/young generation
The release of technology in	Toochnology improves	thinking abilities in jeopardy.
The roles of technology in creating a great teaching and	Teachnology improves teaching and learning process	Technology consider as a tutor, teaching tool and
learning experience	and ways of teaching. This will	learning tool. It will support
	make the act of teaching	the teacher to teach another
	more effecient and	person and teacher can do

effectively.	their task by using technology
	for teaching, and the student
can easily get/learne	
	click or by using technology.

#### Lesson 3

Roles of Technology for Teaching and Learning

Task 1

How Technology Influenced My Life as a Learner

# Answer:

As a 21st century learner, technology has been so essential and important when it comes to my study, using this new technology it helps me to finish my school activities as easy and as fast possible, through this technology I can easily get information/easily access in just a single click of my fingers almost all the information I need.

By using laptop, computer and mobile phone my homeworks, projects and activities, print it out and done! Less hassle and I can save a lot of time. To sum up everything that has been stated so far about how technology influence my life as a learner it has a big impact in my study and performance as a 21st century learner.

# Task 2

How are you going to use technology when you will become a Teacher

Answer:

As a future educator I will use technology in every activities that should be done in the classroom because now a days a 21st teacher should adopt and learn how to use technology in their discussion so that the students learn effectively.

Look for articles in the world wide web that tells about the roles of Technology in teaching and learning.

Name of the Article	The Role of Technology in the Educational Process
Name of Link	Education.msu.edu.green-and-write
What is all about	This article is about how technology can be used to improve learnings it stated that ,whenever teachers attempt to present instruction using technology, they should do using a channel that is relevant to the objectives the learning style, mode and the technology selected.

# Lesson 1

# ICT Policies and Issues Implications to Teaching and Learning

# Experience!

ICT are changing the way people interact with
each other. Today, every physical device have
can have the capability to connect to the
internet to send and receive data. Internet
connected cameras, home automation
systems, connected cars are all examples of
interconnected internet of things. It can bring
benefits to users in term of monitoring and
intelligent capabilities, however, these device
collect, transmit, store and have potential to
share vast amount of personal and individual
data that encroach private spaces and can be
vulnerable to security breaches. This paper
explaining how these open issues, if
unresolved can lead to another wave of digit
division and descrimination in the use of IoT.

Tittle of the Article	Open data privacy and security policy issues and it's influence on embracing the internet of things.
Source	www. Firstmonday.org.com
Author	Radhika Garg

# Lesson 2 Safety Issue in the use of ICT including e-safety Rules

Task 1

Questions	Their Answers			
	ICT Manager	Student	Teacher	
Do you have an ICT facility in the school?	Yes.	Yes.	Yes.	
What compose this	* 42 computers	* 42 desktops	* 42 desktops	
facility?	* 114 tablets	* 2 mother PC	* 1 printer	
	* 1 Projector	* 114 tablets	* 1 projector * 114 tablets	
	* 1 printer * 1 speaker	* 1 projector	* 1 speaker	
Who are allowed to	* Students	* Students	* Students	
use the facility	* Teachers	* School staffs) teachers	* Teachers	
What are the policies,	* Foods are not	Not allowed to bring	* Foods are not	
guilines and rules in	allowed	food in the laboratory	allowed	

the use of facility?	* No liquid on the table  * Keep quiet  * Turn of the desktop after using  *Keep files on your own folder	*Always quite	* Keep quiet  * Turn of the computers after use  * Save your files
What are the e-safety rules that need to be followed by the user?	* No not visit unauthorized website * Always save your files/documents	*Always save your documents  * Unauthorized website are not allowed to visit	* Always save your files  * Do not used unauthorized website

Common Answers	Different Answers
Answer:	Answer:
Ict manager, Teacher, and Students has the same answer that they have Ict Facility in their school. Like; computers, tablets, projector, printer, and speaker. Teachers(teaching and non-teaching stuff), and students are allowed to use the Ict Facility. Foods are not allowed inside, No liquid/beverages on top of the table, Keep quiet or to sum up everything that has been stated so far we should follow the ICT lab routinary and rules and regulation, these arr the policies and guidelines and rules in the use of facility. And in the e-safety rules that need to be followed by the users are; always save your document/files and do not visit unauthorized websites.	-NONE(All their answers are the same.)

# MODULE 3

Non-digital and Digital Skills and Tools in Delivering Technology Enhanced

Teaching and Learning process	Importance
Flipchart	Using visual facilitation and pre-drawn flip charts not only helps draw in learners (so to speak), but makes it easier for them to remember the concepts they've just learned. The simple pictures and the words about the topic offer an easy way for people to link the concept to the picture.1 M
Wall Display	Wall displays are an important part of any classroom, as they make the room appear more inviting and create a better learning environment. A good display not only engages and informs, it also brightens up the atmosphere of the classroom - a plain, drab classroom is uninviting and could affect concentration.
Chalk Board	Chalkboard is an important teaching aid because it: Enables the teacher to record

	the lesson step by step so that the learners can see the subject lake shape and make a permanent record of it in their books, Also enables the teacher to review the whole lesson step by step for the benefit of the class.
Diorama	
	A diorama is a 3-dimensional scene created to illustrate an academic subject, a plot of a story, or an event in history. Dioramas can be used throughout all levels of education. They pinpoint a moment of learning and show deeper levels of understanding.
Nature Table	Made to reflect the subtle seasonal changes that occur in the natural world, a nature table can help children begin to take notice of these changes and find a greater connection with the world that surrounds them. Nature tables also create a sensory experience for the child.

# Task 2

Construct an essay illustrating "Non-digital instructional materials are still relevant in 21st century teaching and learning.

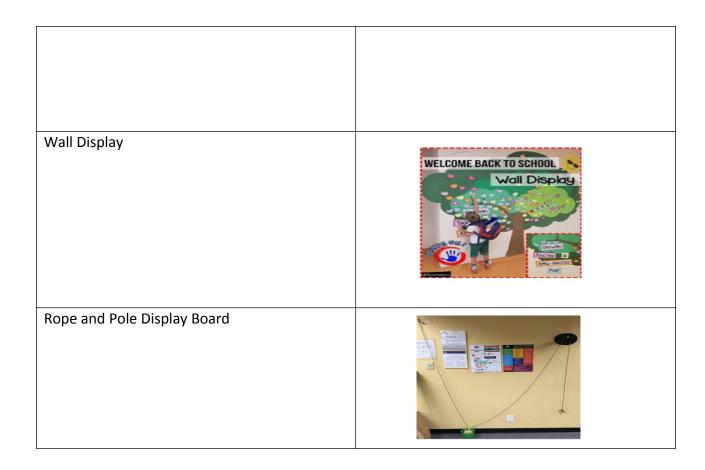
#### Answer:

I total agree that for effective learning and teaching, it is very important to combine materials from the past and those of the digital. My observation is that some of the digital materials have no flexibility while the non-digital can be program according to the need at that time. The contrast with the digital may need time and cost to adjust to your need at an immediate time. It is also dangerous to throw away non-digital ones because of the new ones. As indicated non-digital have advantage to manipulate at your time without cost.the process and cons on both

materials.

Task 3
Search a picture of instructional materials.

Instructional Materials	Picture/Image
Diorama	
Nature Table	What can you see?
Writing Board	
Flip Chart	3, 4 5 6    3   133   752
Zigzag Board	



# Lesson 2

# Select and Use ICT tools for Teaching and Learning

# Task 1

1. Do you have this gadget? Encircle item if	
there is available.	



# 2. How could I provide this gadget?

# Answer:

Honestly I don't have my own money yet, and I don't have any part time job to support my needs and wants. So that I don't have the capacity to buy those things for my self. My parents are the one who buy me this phone/mobile phone and USB.

# 3. What should I prioritize?

#### Answer:

As a person we all know what we should prioritize in life - become a successful, and we can achieve that through schooling. This current era , degree is one of the bases and usefull tool to have a good/high salary in the future, and we should always prioritize our needs than our wants. In 21st century/era, as a student Laptop/computer, and mobile phone is consider as our needs. My parents provide me a mobile phone for researching, and capturing images that can be used for school purposes.

# 4. How would gadgets affect teaching or learning of content?

#### Answer:

Well, we all know that the gadgets that we use nowadays are useful in our studies, but we can't deny the fact that sometimes we can't focus on our studies because we are more on using gadgets rather than studying. It has a lot of impact on our studies and learning content.

Technology can promote innovative teaching techniques. Technology changes the way we access information, but also how were taught that information. The instructor becomes less of a 'sage on stage' and more of a 'guide on the side.' from accessing course materials online to watching videorecorded lectures, technology opens up the possibility for teaching innovation: from collaborative group work to flipped and hybrid classrooms. Instructors can also use classroom response systems to assess students understanding of course material and adjust the pace or content as needed in real time.

# Task

I will integrate the QR code in my lessons by:

# Answer:

Before leaving the classroom, students scan the LEAVING QR code and complete the Google Form. This documents the date, time, and their reason for leaving class as well as their destination. Whenever they return, they scan the RETURNING QR code and complete the Google Form.

# Task 3

The use of QR code in my lesson design

#### Answer:

The use of QR code is that, it's easy to give students web addresses and allows them to be more independent. I'm all about automating and releasing responsibility to my students as much as possible. I want to be the facilitator of learning, but not the one who tells them all the answers.

QR Codes reduce student frustration of typing in a web address. In know we can use a link shortener to create shorter links, but even those are difficult for a seven-year-old to type in accurately. With a QR Code, I can save time (no typing) and students get it right the first time. There's no chance that students will mistype the web address.

#### Task 4

"Technology will never replace great teachers, but technology in the hands of great teachers is transformational."

#### Answer:

Although technology is helping a lot in the learning environment, it has not completely taken over the role of a teacher. Technology is merely an augmentation to a teacher. It can help the process of learning, but it certainly cannot replace the role of the teacher and when technology is in the hands of a great teachers I'm sure every students will learned more effectively and more efficiently.

# Task 4

Find out the wonders of e portfolio for teaching and learning process.

#### Answer:

E portfolio has been used to facilitate, document, and archive student learning by having students replect on what they learned, how they learned it, and how much they learned, they start to take control of their own learning.

Search a feature of e portfolio applicable for learners in education

Paste your sample here:



We

#### Lesson 4

Task 1

Gather data from millennials by asking 10 respondents on how they want to learn			
* By reading textbook			
* By surfing the internet	4		
* By taking down notes	2		
* By listening to the teacher	4		

What have you realize after getting information about how the millennials learn better!

#### Answer:

Four(4) of my respondents say's that they learn by surfing the internet, and also four(4) says that they learned by listening to the teacher, and two(2) of my respondents say's that they learned by taking down notes. This actively means that we have different learning style, strength, and intellegence. For me it's a collaborative way of learning that since technology is presence they use it for a purpose but still the traditional way will not be forgotten.

As a pre service teacher, what actions will you take as you prepare yourself to handle this type of learners?

#### Answer:

As a future teacher there are process/steps that I consider in preparation to this type of learners, I started of course from practicing first how should I be efficient teacher, from practicing the strategies that i will be using in order to teach will my future student, then when it comes to technology I prepare my self by starting to know and practice how this new technology can be used inside a classroom, I practice not just to know or be familiar with that certain gadget but to be literate enough and to be expert in using those new technology, for one day that I have my own learners I will cope up the changes and be more effective so that I can be able to handle this types of learners.

How will you handle your lessons in order that you will make learners become engaged and effectively take accountability of their own learning?

# Answer:

As a teacher you should first learn your student profile before having a discussion so that you will know what are the possible strategies you can use for them to learn and engaged in your discussion. And in order for your student to learn on how they will become accountable for their own learning you as their teacher will not spoon feed them with all the thing or information about your lesson, for me, it is important to give your student some task to do or let them find answers to their question on their own, because for me in a discussion it is more engaging when a teacher serve us facilitator only and you as a teacher will just reinforce to what they already know or learn on their own especially when you are teaching high school or college.

# **EXCHANGE!**

Ms. Sheena could integrate technology in her lesson and enable her class listen to that person through video record or social media. 21st century learners are already attached of what technology can provide and teachers know how to use it.

Lesson 5

Digital Literacy Skills in the 21st Century

Task 1

Digital Literacy skills- finding, using, creating information and understanding Digital practices.	Not confident	Somewhat confident	Very confident
Selecting the right tool when you need to locate, use or present information.		/	
Presenting your Digital identity online.			/
Using online tools and sites to search or share information online.			/
Recognize owner of ideas and information found online through citation.		/	
Distinguishing the search engine for related online materials.		/	
Using social networking sites as a source of information.			/

Scanning or skimming a page of a site or a blog among others to get the relevant information quickly.		/
Signing up in pertinent sites having experts and authorities in the discipline to be updated with the information they can provide.		
Using materials in variety of online forum, blogs or vlogs or web pages while observing netiquette.	/	
Writing and posting online views in creating and sharing documents or presentation.		/
Using multimedia to capture the information or message.		/
Communicating with others through online modality.		/

Task 2

What have you realize after taking the Digital Literacy Skills?

## Answer:

After taking the Digital Literacy skills test i realize that i 'am not totally literate interms of using technology and it will leads me to become irresponsible, so that I need to practice and enhanced my skill by using the digital/technology.

Based in the result of your Digital Literacy Skills-Self Inventory, in which following areas do you found yourself least confident? (Incircle your answer)

# A. Understanding Digital practices

- B. Locating information
- C. Using information
- D. Creating information

What action do you plan to take? Discuss.

#### Answer:

For me, I should enhance, read, and search more information about the digital practices, so that I will learned/know how to manipulate or use those technology, and to have more confident and I would not be worrying anymore about it.

# **FEEDBACK**

I learned a lot of new knowledge in this module. Technology today is all pervasive - entwined in almost every part of our surrounding. It affects how we live, work, play, and most importantly learn. With technology becoming an increasing requirement accross every industry today, it seems only logical for schools also to effectively deploybtechnology in the classroom.